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

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

February 12, 2015

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

Re: Progress Report: January 2016
Frost Street Sites: Site ID #s 1-30043 I, L, M
New Cassel Industrial Area, Westbury, New York

Dear Mr. Dyber:

EnSafe, Inc. (EnSafe) is pleased to submit the Progress Report for the Frost Street Sites (Site ID #s 1-30043 I, L, M) for work completed in January 2016.

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

- Operations remained suspended this month to conduct soil vapor intrusion investigation at the Century 21 building until January 12, 2016, at which time the system was made operational.
- During periodic O&M visits, which resumed when the system was made operational, 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 January 28, 2016 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**.
- A carbon exchange was performed prior to system restart on January 12, 2016.

Quarterly/Annual Groundwater Monitoring

- The fourth quarter 2015 groundwater sampling event was completed during the week of December 7, 2015. The samples are being analyzed and will be validated by a third party data validator. Results will be included in a forthcoming report, when available.

Century 21 Investigation

- The investigation at the Century 21 building, as described in the NYSDEC-approved September 25, 2015 work plan, was completed on January 12, 2016. Results of the investigation will be submitted under separate cover.

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 Plan of Action on October 20, 2015. We received a request for additional information on November 27, 2015, which was fulfilled on December 3, 2015. We would like to resume discussions regarding next steps when NYSDEC has had the opportunity to review.

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.
G. Bobersky
J. Nealon, NYSDOH
J. DeFranco, NCDOH
R. Stallone, Spiegel Realty
K. Maldonado, Esq.
J. Privitera, Esq.
J. LaPoma, U.S. EPA
J. Heaney, Walden Associates
C. Wise, EnSafe

Via email to amtamuno@gw.dec.state.ny.us
Via email to gtbobers@gw.dec.state.ny.us
Via email to jacquelyn.nealon@health.ny.gov
Via email to jdefranco@nassaucountyny.gov
Via email to rstallone@spiegelrealty.com
Via email to kevinmaldonado64@yahoo.com
Via email to privitera@mltw.com
Via email to lapoma.jennifer@epa.gov
Via email to jheaney@walden-associates.com
Via email to cwise@ensafe.com

Appendix A

SVE/AS System O&M Logs

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

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

Date: 12-Jan
 Weather / Temp: Clear / 20 DEG
 Technician / Operator: DW

Arrival Time: 7:00
 Departure Time: 15:30

System Status									
	Arrival	Departure		Arrival	Departure				
SVE Blower 1 (ON/OFF)	OFF	ON	Sensaphone (ON/OFF)	ON	ON				
SVE Blower 2 (ON/OFF)	OFF	OFF	Surge Protection (ON/OFF)	ON	ON				
AS Compressor 1 (ON/OFF)	OFF	OFF	Lightning Protection (White/Black)	White	White				
AS Compressor 2 (ON/OFF)	OFF	ON							
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4200	825	Blower 1 Total Runtime (hrs)	41,131.6					
Blower 1 Fresh Air Valve Open (%)	0		Blower 2 Total Runtime (hrs)	42,005.1					
Blower 2 Fresh Air Valve Open (%)	0		Blower 1 Air Filter Differential Pressure ("H2O)	0					
Moisture Separator Vacuum ("Hg)	3		Blower 2 Air Filter Differential Pressure ("H2O)	0					
VGAC-1 Influent Vacuum ("H2O)	64		VGAC-1 Influent PID (ppm)	110.0					
VGAC-1 Effluent Vacuum ("H2O)	68		VGAC-1 Effluent PID (ppm)	0.0					
VGAC-2 Influent Vacuum ("H2O)	74		VGAC-2 Influent PID (ppm)	110.0					
VGAC-2 Effluent Vacuum ("H2O)	64		VGAC-2 Effluent PID (ppm)	0.0					
VGAC-3 Influent Vacuum ("H2O)	8		VGAC-3 Influent PID (ppm)	0.0					
VGAC-3 Effluent Vacuum ("H2O)	1.8		VGAC-3 Effluent PID (ppm)	0.0					
VGAC-3 Influent Temperature (DegF)	124		Blower Effluent PID (ppm)	0.0					
Blower Effluent Pressure ("H2O)	12								
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	6500	142	55.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	36	4100	89	6.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	44	4000	87	100.0	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	36	2900	63	25.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	36	4700	103	30.0	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	36	5500	120	430.0
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	36	4000	87	10.0	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	38	3000	65	8.0
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs			Compressor 2 Pressure (psi)	80				
Compressor 1 Temperature (degF)	Off for repairs			Compressor 2 Temperature (degF)	176				
Compressor 1 Runtime (hrs)	27,317.0			Compressor 2 Runtime (hrs)	14,509.0				
Manifold Regulator Pressure (psi)	65								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate		Pressure	Flow Rate				
AS-1 (psi)/(cfm)	18	8	AS-11 (psi)/(cfm)	17	8				
AS-2 (psi)/(cfm)	15	8	AS-12B (psi)/(cfm)	OFF	OFF				
AS-3 (psi)/(cfm)	14	8	AS-13B (psi)/(cfm)	16	8				
AS-4 (psi)/(cfm)	15	8	AS-14 (psi)/(cfm)	15	8				
AS-5 (psi)/(cfm)	17	8	AS-15 (psi)/(cfm)	16	8				
AS-6 (psi)/(cfm)	16	8	AS-16B (psi)/(cfm)	15	8				
AS-7 (psi)/(cfm)	18	6	AS-17 (psi)/(cfm)	16	8				
AS-8 (psi)/(cfm)	15	8	AS-18 (psi)/(cfm)	16	8				
AS-9 (psi)/(cfm)	15	8	AS-19 (psi)/(cfm)	16	8				
AS-10B (psi)/(cfm)	15	8							

Notes, Comments & Observations:

Compressor 1 off for repairs.

Oversaw carbon changeout of all three vessels.

Switched GAC-3 to pressure side of blower.

Restarted system.

Heater fan not working. AS-12B turned off due to cracked plug on wellhead.

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: 22-Jan
Weather / Temp: Clear / 30 DEG
Technician / Operator: JW

Arrival Time: 8:00
Departure Time: 14:00

System Status									
	Arrival	Departure			Arrival	Departure			
SVE Blower 1 (ON/OFF)	ON	ON		Sensaphone (ON/OFF)	ON	ON			
SVE Blower 2 (ON/OFF)	OFF	OFF		Surge Protection (ON/OFF)	ON	ON			
AS Compressor 1 (ON/OFF)	OFF	OFF		Lightning Protection (White/Black)	White	White			
AS Compressor 2 (ON/OFF)	OFF	ON							
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/cfm)	4200	825		Blower 1 Total Runtime (hrs)	41,178.9				
Blower 1 Fresh Air Valve Open (%)	0			Blower 2 Total Runtime (hrs)	42,058.1				
Blower 2 Fresh Air Valve Open (%)	0			Blower 1 Air Filter Differential Pressure ("H2O)	0				
Moisture Separator Vacuum ("Hg)	3			Blower 2 Air Filter Differential Pressure ("H2O)	0				
VGAC-1 Influent Vacuum ("H2O)	65			VGAC-1 Influent PID (ppm)	100.0				
VGAC-1 Effluent Vacuum ("H2O)	68			VGAC-1 Effluent PID (ppm)	0.0				
VGAC-2 Influent Vacuum ("H2O)	75			VGAC-2 Influent PID (ppm)	100.0				
VGAC-2 Effluent Vacuum ("H2O)	65			VGAC-2 Effluent PID (ppm)	0.0				
VGAC-3 Influent Vacuum ("H2O)	8			VGAC-3 Influent PID (ppm)	0.0				
VGAC-3 Effluent Vacuum ("H2O)	2			VGAC-3 Effluent PID (ppm)	0.0				
VGAC-3 Influent Temperature (DegF)	120			Blower Effluent PID (ppm)	0.0				
Blower Effluent Pressure ("H2O)	12								
Transfer Pump Total Runtime (hrs)	25,020.5			Condensate Storage Tank Level (gal)	250				
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	42	6500	142		SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	36	4100	89	
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	44	4000	87		SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	36	2900	63	
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	36	4700	103		SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	36	5500	120	
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	36	4000	87		SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	36	3000	65	
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs			Compressor 2 Pressure (psi)	85				
Compressor 1 Temperature (degF)	Off for repairs			Compressor 2 Temperature (degF)	175				
Compressor 1 Runtime (hrs)	27,317.0			Compressor 2 Runtime (hrs)	14,575.0				
Manifold Regulator Pressure (psi)	65								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate			Pressure	Flow Rate			
AS-1 (psi)/(cfm)	18	8		AS-11 (psi)/(cfm)	17	8			
AS-2 (psi)/(cfm)	15	8		AS-12B (psi)/(cfm)	16	6			
AS-3 (psi)/(cfm)	14	8		AS-13B (psi)/(cfm)	15	8			
AS-4 (psi)/(cfm)	15	8		AS-14 (psi)/(cfm)	16	8			
AS-5 (psi)/(cfm)	17	8		AS-15 (psi)/(cfm)	15	8			
AS-6 (psi)/(cfm)	16	8		AS-16B (psi)/(cfm)	16	8			
AS-7 (psi)/(cfm)	18	6		AS-17 (psi)/(cfm)	16	8			
AS-8 (psi)/(cfm)	17	8		AS-18 (psi)/(cfm)	16	8			
AS-9 (psi)/(cfm)	17	8		AS-19 (psi)/(cfm)	16	8			
AS-10B (psi)/(cfm)	17	8							

Notes, Comments & Observations:

Compressor 1 off for repairs.

Repaired wellhead to AS-12B.

Replaced heater. Heater L1-11.9A, L2-11.7A, L3-11.7A

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-Jan
 Weather / Temp: Clear / 27 DEG
 Technician / Operator: DW

Arrival Time: 6:00
 Departure Time: 7:30

System Status									
	Arrival	Departure			Arrival	Departure			
SVE Blower 1 (ON/OFF)	ON	ON		Sensaphone (ON/OFF)	ON	ON			
SVE Blower 2 (ON/OFF)	OFF	OFF		Surge Protection (ON/OFF)	ON	ON			
AS Compressor 1 (ON/OFF)	OFF	OFF		Lightning Protection (White/Black)	White	White			
AS Compressor 2 (ON/OFF)	OFF	ON							
Soil Vapor Extraction System									
Blower Air Velocity/Flow Rate (fpm)/(cfm)	4200	825		Blower 1 Total Runtime (hrs)	41,253.0				
Blower 1 Fresh Air Valve Open (%)	0			Blower 2 Total Runtime (hrs)	42,123.9				
Blower 2 Fresh Air Valve Open (%)	0			Blower 1 Air Filter Differential Pressure ("H2O)	14				
Moisture Separator Vacuum ("Hg)	3.5			Blower 2 Air Filter Differential Pressure ("H2O)	0				
VGAC-1 Influent Vacuum ("H2O)	70			VGAC-1 Influent PID (ppm)	25.0				
VGAC-1 Effluent Vacuum ("H2O)	68			VGAC-1 Effluent PID (ppm)	0.0				
VGAC-2 Influent Vacuum ("H2O)	56			VGAC-2 Influent PID (ppm)	25.0				
VGAC-2 Effluent Vacuum ("H2O)	80			VGAC-2 Effluent PID (ppm)	0.0				
VGAC-3 Influent Vacuum ("H2O)	9			VGAC-3 Influent PID (ppm)	0.0				
VGAC-3 Effluent Vacuum ("H2O)	2			VGAC-3 Effluent PID (ppm)	0.0				
VGAC-3 Influent Temperature (DegF)	134			Blower Effluent PID (ppm)	0.0				
Blower Effluent Pressure ("H2O)	17								
Transfer Pump Total Runtime (hrs)	25,020.5			Condensate Storage Tank Level (gal)	400				
SVE Manifold Legs - Vacuum/Flow Rate/PID									
	Vacuum	Velocity	Flow Rate	PID		Vacuum	Velocity	Flow Rate	PID
SVE-1 ("H2O)/(FPM)/(cfm)/(ppm)	46	7000	153	41.0	SVE-4 ("H2O)/(FPM)/(cfm)/(ppm)	38	3800	83	0.0
SVE-2 ("H2O)/(FPM)/(cfm)/(ppm)	48	4000	87	16.0	SVE-5 ("H2O)/(FPM)/(cfm)/(ppm)	40	2700	59	2.0
SVE-3 ("H2O)/(FPM)/(cfm)/(ppm)	40	4600	100	4.4	SVE-6B ("H2O)/(FPM)/(cfm)/(ppm)	38	6000	131	80.0
SVE-3A ("H2O)/(FPM)/(cfm)/(ppm)	38	3900	85	1.1	SVE-7 ("H2O)/(FPM)/(cfm)/(ppm)	40	2700	59	0.0
Air Sparge System									
Compressor 1 Pressure (psi)	Off for repairs			Compressor 2 Pressure (psi)	80				
Compressor 1 Temperature (degF)	Off for repairs			Compressor 2 Temperature (degF)	212				
Compressor 1 Runtime (hrs)	27,317.0			Compressor 2 Runtime (hrs)	14,631.0				
Manifold Regulator Pressure (psi)	65								
AS Manifold Legs - Pressure/Flow Rate									
	Pressure	Flow Rate			Pressure	Flow Rate			
AS-1 (psi)/(cfm)	18	8		AS-11 (psi)/(cfm)	16	6			
AS-2 (psi)/(cfm)	15	8		AS-12B (psi)/(cfm)	15	8			
AS-3 (psi)/(cfm)	14	8		AS-13B (psi)/(cfm)	15	7			
AS-4 (psi)/(cfm)	15	8		AS-14 (psi)/(cfm)	15	8			
AS-5 (psi)/(cfm)	18	8		AS-15 (psi)/(cfm)	15	8			
AS-6 (psi)/(cfm)	15	8		AS-16B (psi)/(cfm)	15	8			
AS-7 (psi)/(cfm)	15	8		AS-17 (psi)/(cfm)	16	6			
AS-8 (psi)/(cfm)	15	8		AS-18 (psi)/(cfm)	15	6			
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

ANALYTICAL RESULTS SUMMARY

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 : H1298

ATTENTION : James Wilkinson



DoD ELAP

**Hit Summary Sheet**
SW-846SDG No.: H1298Client: Envirotrac Environmental Services

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	INF								
H1298-01	INF	Air	Acetone	11.20	JBQ	2.38	2.38	11.9	ug/m3
H1298-01	INF	Air	trans-1,2-Dichloroethene	9.12	J	1.98	3.96	19.8	ug/m3
H1298-01	INF	Air	2-Butanone	7.37	J	2.95	2.95	14.8	ug/m3
H1298-01	INF	Air	cis-1,2-Dichloroethene	951.00	E	1.98	3.96	19.8	ug/m3
H1298-01	INF	Air	1,1,1-Trichloroethane	14.70		1.64	1.64	1.64	ug/m3
H1298-01	INF	Air	Trichloroethene	3,332.00	E	0.81	1.61	1.61	ug/m3
H1298-01	INF	Air	Tetrachloroethene	29,159.00	E	2.03	2.03	2.03	ug/m3
			Total Voc :	33484.39					
			Total Concentration:	33484.39					
Client ID:	INFDL								
H1298-01DL	INFDL	Air	cis-1,2-Dichloroethene	792.00	JD	237	475	2378	ug/m3
H1298-01DL	INFDL	Air	Trichloroethene	3,600.00	D	96.7	193	193	ug/m3
H1298-01DL	INFDL	Air	Tetrachloroethene	80,696.00	D	244	244	244	ug/m3
			Total Voc :	85088					
			Total Concentration:	85088					
Client ID:	EFF								
H1298-02	EFF	Air	Dichlorodifluoromethane	5.93		0.2	0.49	2.47	ug/m3
H1298-02	EFF	Air	Acetone	1.85	BQ	0.24	0.24	1.19	ug/m3
H1298-02	EFF	Air	Methylene Chloride	1.18	J	0.17	0.35	1.74	ug/m3
H1298-02	EFF	Air	Tetrachloroethene	0.54		0.2	0.2	0.2	ug/m3
H1298-02	EFF	Air	1,4-Dichlorobenzene	0.78	J	0.6	0.6	3.01	ug/m3
			Total Voc :	10.28					
			Total Concentration:	10.28					
Client ID:	EFFRE								
H1298-02RE	EFFRE	Air	Dichlorodifluoromethane	7.91		0.25	0.59	2.97	ug/m3
H1298-02RE	EFFRE	Air	Acetone	2.38	BQ	0.29	0.29	1.43	ug/m3
H1298-02RE	EFFRE	Air	Methylene Chloride	2.26		0.21	0.42	2.08	ug/m3
H1298-02RE	EFFRE	Air	Tetrachloroethene	8.82		0.27	0.27	0.27	ug/m3
H1298-02RE	EFFRE	Air	1,4-Dichlorobenzene	1.02	J	0.72	0.72	3.61	ug/m3
			Total Voc :	22.39					
			Total Concentration:	22.39					

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 : H1298****ATTENTION : James Wilkinson****DoD ELAP**

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Cover Page

Order ID : H1298

Project ID : Frost Street Sites / SPGL 100.03

Client : Envirotrac Environmental Services

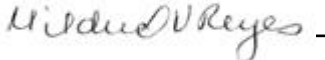
Lab Sample Number

H1298-01
H1298-02

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 : 

NYDOH CERTIFICATION NO - 11376

APPROVED

Date: 2/11/2016

By Mildred V Reyes, QAQC Supervisor at 8:58 am, Feb 12, 2016

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Envirotrac Environmental Services

Project Name: Frost Street Sites / SPGL 100.03

Project # N/A

Chemtech Project # H1298

Test Name: TO-15

A. Number of Samples and Date of Receipt:

2 Air samples were received on 01/29/2016.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements except for EFF, EFFRE.

The Retention Times were acceptable for all samples.

The RPD recoveries met criteria .

The Blank Spike for {VL0201ABS01} with File ID: VL026733.D met requirements for all samples except for 1,4-Dioxane[47%], Acetone[60%] .

The Blank Spike for {VL0202ABS01} with File ID: VL026760.D met requirements for all samples except for Acetone[63%] .

The Blank analysis indicated presence of Acetone[0.25 ppbv]

FileID:VL026759.D{VL0202ABL01}, Acetone[0.26 ppbv]

FileID:VL026732.D{VL0201ABL01} due to possible lab contamination.

The Initial Calibration met the requirements except for Acetone has more than 30% RSD in the Initial Calibration with dated 02/01/2016 with L Instrument but as per method two compounds as allowed to be fail .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

Samples INF was diluted due to bad matrix.
Sample INF was diluted due to high concentration.

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 8:58 am, Feb 12, 2016

DATA REPORTING QUALIFIERS- ORGANIC

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

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: H1298

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 Castody

✓

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: SHIVANGI PANCHAL

Date: 02/11/2016

2nd Level QA Review Signature: _____

Mildred V Reyes

APPROVED

By Mildred V Reyes, QAQC Supervisor at 8:58 am, Feb 12, 2016

LAB CHRONICLE

OrderID:	H1298	OrderDate:	1/29/2016 1:47:00 PM
Client:	Envirotrac Environmental Services	Project:	Frost Street Sites / SPGL 100.03
Contact:	James Wilkinson	Location:	Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
H1298-01	INF	Air			01/28/16			01/29/16
			TO-15	TO-15			02/02/16	
H1298-01DL	INFDL	Air			01/28/16			01/29/16
			TO-15	TO-15			02/02/16	
H1298-02	EFF	Air			01/28/16			01/29/16
			TO-15	TO-15			02/02/16	
H1298-02RE	EFFRE	Air			01/28/16			01/29/16
			TO-15	TO-15			02/02/16	

Hit Summary Sheet SW-846

SDG No.: H1298

Client: Envirotrac Environmental Services

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	INF								
H1298-01	INF	Air	Acetone	11.20	JBQ	2.38	2.38	11.9	ug/m3
H1298-01	INF	Air	trans-1,2-Dichloroethene	9.12	J	1.98	3.96	19.8	ug/m3
H1298-01	INF	Air	2-Butanone	7.37	J	2.95	2.95	14.8	ug/m3
H1298-01	INF	Air	cis-1,2-Dichloroethene	951.00	E	1.98	3.96	19.8	ug/m3
H1298-01	INF	Air	1,1,1-Trichloroethane	14.70		1.64	1.64	1.64	ug/m3
H1298-01	INF	Air	Trichloroethene	3,332.00	E	0.81	1.61	1.61	ug/m3
H1298-01	INF	Air	Tetrachloroethene	29,159.00	E	2.03	2.03	2.03	ug/m3
			Total Voc :	33484.39					
			Total Concentration:	33484.39					
Client ID:	INFDL								
H1298-01DL	INFDL	Air	cis-1,2-Dichloroethene	792.00	JD	237	475	2378	ug/m3
H1298-01DL	INFDL	Air	Trichloroethene	3,600.00	D	96.7	193	193	ug/m3
H1298-01DL	INFDL	Air	Tetrachloroethene	80,696.00	D	244	244	244	ug/m3
			Total Voc :	85088					
			Total Concentration:	85088					
Client ID:	EFF								
H1298-02	EFF	Air	Dichlorodifluoromethane	5.93		0.2	0.49	2.47	ug/m3
H1298-02	EFF	Air	Acetone	1.85	BQ	0.24	0.24	1.19	ug/m3
H1298-02	EFF	Air	Methylene Chloride	1.18	J	0.17	0.35	1.74	ug/m3
H1298-02	EFF	Air	Tetrachloroethene	0.54		0.2	0.2	0.2	ug/m3
H1298-02	EFF	Air	1,4-Dichlorobenzene	0.78	J	0.6	0.6	3.01	ug/m3
			Total Voc :	10.28					
			Total Concentration:	10.28					
Client ID:	EFFRE								
H1298-02RE	EFFRE	Air	Dichlorodifluoromethane	7.91		0.25	0.59	2.97	ug/m3
H1298-02RE	EFFRE	Air	Acetone	2.38	BQ	0.29	0.29	1.43	ug/m3
H1298-02RE	EFFRE	Air	Methylene Chloride	2.26		0.21	0.42	2.08	ug/m3
H1298-02RE	EFFRE	Air	Tetrachloroethene	8.82		0.27	0.27	0.27	ug/m3
H1298-02RE	EFFRE	Air	1,4-Dichlorobenzene	1.02	J	0.72	0.72	3.61	ug/m3
			Total Voc :	22.39					
			Total Concentration:	22.39					

SAMPLE DATA

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	01/28/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	01/29/16
Client Sample ID:	INF	SDG No.:	H1298
Lab Sample ID:	H1298-01	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
VL026746.D	10		02/02/16 02:59	vl020116

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	1	4.94	U	0.4	1	5	ppbv
74-87-3	Chloromethane	1	2.07	U	1	1	5	ppbv
75-01-4	Vinyl Chloride	0.3	0.77	U	0.3	0.3	0.3	ppbv
74-83-9	Bromomethane	1	3.88	U	0.3	1	5	ppbv
75-00-3	Chloroethane	1	2.64	U	1	1	5	ppbv
109-99-9	Tetrahydrofuran	1	2.95	U	1	1	5	ppbv
75-69-4	Trichlorofluoromethane	1	5.62	U	0.4	1	5	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	1	7.66	U	0.4	1	5	ppbv
76-14-2	Dichlorotetrafluoroethane	1	6.99	U	0.4	1	5	ppbv
593-60-2	Bromoethene	1	4.37	U	0.3	1	5	ppbv
75-65-0	tert-Butyl alcohol	1	3.03	U	1	1	5	ppbv
142-82-5	Heptane	1	4.1	U	1	1	5	ppbv
75-35-4	1,1-Dichloroethene	1	3.96	U	0.5	1	5	ppbv
67-64-1	Acetone	4.7	11.2	JQB	1	1	5	ppbv
75-15-0	Carbon Disulfide	1	3.11	U	0.5	1	5	ppbv
1634-04-4	Methyl tert-Butyl Ether	1	3.61	U	0.5	1	5	ppbv
75-09-2	Methylene Chloride	1	3.47	U	0.5	1	5	ppbv
156-60-5	trans-1,2-Dichloroethene	2.3	9.12	J	0.5	1	5	ppbv
75-34-3	1,1-Dichloroethane	1	4.05	U	0.4	1	5	ppbv
110-82-7	Cyclohexane	1	3.44	U	1	1	5	ppbv
78-93-3	2-Butanone	2.5	7.37	J	1	1	5	ppbv
56-23-5	Carbon Tetrachloride	0.3	1.89	U	0.3	0.3	0.3	ppbv
156-59-2	cis-1,2-Dichloroethene	240	951	E	0.5	1	5	ppbv
67-66-3	Chloroform	1	4.88	U	0.2	1	5	ppbv
71-55-6	1,1,1-Trichloroethane	2.7	14.7		0.3	0.3	0.3	ppbv
540-84-1	2,2,4-Trimethylpentane	1	4.67	U	0.4	1	5	ppbv
71-43-2	Benzene	1	3.19	U	0.4	1	5	ppbv
107-06-2	1,2-Dichloroethane	1	4.05	U	1	1	5	ppbv
79-01-6	Trichloroethene	620	3332	E	0.15	0.3	0.3	ppbv
78-87-5	1,2-Dichloropropane	1	4.62	U	1	1	5	ppbv
75-27-4	Bromodichloromethane	1	6.7	U	0.5	1	5	ppbv
108-10-1	4-Methyl-2-Pentanone	1	4.1	U	0.5	1	5	ppbv
108-88-3	Toluene	1	3.77	U	0.5	1	5	ppbv
10061-02-6	t-1,3-Dichloropropene	1	4.54	U	1	1	5	ppbv
10061-01-5	cis-1,3-Dichloropropene	1	4.54	U	1	1	5	ppbv
79-00-5	1,1,2-Trichloroethane	1	5.46	U	1	1	5	ppbv
124-48-1	Dibromochloromethane	1	8.52	U	0.5	1	5	ppbv
106-93-4	1,2-Dibromoethane	1	7.69	U	1	1	5	ppbv

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	01/28/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	01/29/16
Client Sample ID:	INF	SDG No.:	H1298
Lab Sample ID:	H1298-01	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
VL026746.D	10		02/02/16 02:59	vl020116

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	4300	29159	E	0.3	0.3	0.3	ppbv
108-90-7	Chlorobenzene	1	4.61	U	1	1	5	ppbv
100-41-4	Ethyl Benzene	1	4.34	U	1	1	5	ppbv
179601-23-1	m/p-Xylene	2	8.69	U	1	2	10	ppbv
95-47-6	o-Xylene	1	4.34	U	1	1	5	ppbv
100-42-5	Styrene	1	4.26	U	1	1	5	ppbv
75-25-2	Bromoform	1	10.3	U	0.5	1	5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.3	2.06	U	0.3	0.3	0.3	ppbv
95-49-8	2-Chlorotoluene	1	5.18	U	1	1	5	ppbv
108-67-8	1,3,5-Trimethylbenzene	1	4.92	U	1	1	5	ppbv
95-63-6	1,2,4-Trimethylbenzene	1	4.92	U	1	1	5	ppbv
541-73-1	1,3-Dichlorobenzene	1	6.01	U	1	1	5	ppbv
106-46-7	1,4-Dichlorobenzene	1	6.01	U	1	1	5	ppbv
95-50-1	1,2-Dichlorobenzene	1	6.01	U	1	1	5	ppbv
120-82-1	1,2,4-Trichlorobenzene	1	7.42	U	0.4	1	5	ppbv
87-68-3	Hexachloro-1,3-Butadiene	1	10.7	U	1	1	5	ppbv
106-99-0	1,3-Butadiene	1	2.21	U	1	1	5	ppbv
91-20-3	Naphthalene	1	5.24	U	0.4	1	5	ppbv
622-96-8	4-Ethyltoluene	1	4.92	U	1	1	5	ppbv
110-54-3	Hexane	1	3.52	U	0.4	1	5	ppbv
107-05-1	Allyl Chloride	1	3.13	U	0.5	1	5	ppbv
123-91-1	1,4-Dioxane	1	3.6	UQ	1	1	5	ppbv
80-62-6	Methyl Methacrylate	1	4.09	U	1	1	5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	11			65 - 135		110%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	609502		6.64				
540-36-3	1,4-Difluorobenzene	1904510		8.31				
3114-55-4	Chlorobenzene-d5	2670810		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:	01/28/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	01/29/16
Client Sample ID:	INFDL	SDG No.:	H1298
Lab Sample ID:	H1298-01DL	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
VL026768.D	1200		02/02/16 20:35	VL020216

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	120	593	UD	48	120	600	ppbv
74-87-3	Chloromethane	120	247	UD	120	120	600	ppbv
75-01-4	Vinyl Chloride	36	92.0	UD	36	36	36	ppbv
74-83-9	Bromomethane	120	465	UD	36	120	600	ppbv
75-00-3	Chloroethane	120	316	UD	120	120	600	ppbv
109-99-9	Tetrahydrofuran	120	353	UD	120	120	600	ppbv
75-69-4	Trichlorofluoromethane	120	674	UD	48	120	600	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	120	919	UD	48	120	600	ppbv
76-14-2	Dichlorotetrafluoroethane	120	838	UD	48	120	600	ppbv
593-60-2	Bromoethene	120	524	UD	36	120	600	ppbv
75-65-0	tert-Butyl alcohol	120	363	UD	120	120	600	ppbv
142-82-5	Heptane	120	491	UD	120	120	600	ppbv
75-35-4	1,1-Dichloroethene	120	475	UD	60	120	600	ppbv
67-64-1	Acetone	120	285	UDQ	120	120	600	ppbv
75-15-0	Carbon Disulfide	120	373	UD	60	120	600	ppbv
1634-04-4	Methyl tert-Butyl Ether	120	432	UD	60	120	600	ppbv
75-09-2	Methylene Chloride	120	416	UD	60	120	600	ppbv
156-60-5	trans-1,2-Dichloroethene	120	475	UD	60	120	600	ppbv
75-34-3	1,1-Dichloroethane	120	485	UD	48	120	600	ppbv
110-82-7	Cyclohexane	120	413	UD	120	120	600	ppbv
78-93-3	2-Butanone	120	353	UD	120	120	600	ppbv
56-23-5	Carbon Tetrachloride	36	226	UD	36	36	36	ppbv
156-59-2	cis-1,2-Dichloroethene	200	792	JD	60	120	600	ppbv
67-66-3	Chloroform	120	586	UD	24	120	600	ppbv
71-55-6	1,1,1-Trichloroethane	36	196	UD	36	36	36	ppbv
540-84-1	2,2,4-Trimethylpentane	120	560	UD	48	120	600	ppbv
71-43-2	Benzene	120	383	UD	48	120	600	ppbv
107-06-2	1,2-Dichloroethane	120	485	UD	120	120	600	ppbv
79-01-6	Trichloroethene	670	3600	D	18	36	36	ppbv
78-87-5	1,2-Dichloropropane	120	554	UD	120	120	600	ppbv
75-27-4	Bromodichloromethane	120	803	UD	60	120	600	ppbv
108-10-1	4-Methyl-2-Pentanone	120	491	UD	60	120	600	ppbv
108-88-3	Toluene	120	452	UD	60	120	600	ppbv
10061-02-6	t-1,3-Dichloropropene	120	544	UD	120	120	600	ppbv
10061-01-5	cis-1,3-Dichloropropene	120	544	UD	120	120	600	ppbv
79-00-5	1,1,2-Trichloroethane	120	654	UD	120	120	600	ppbv
124-48-1	Dibromochloromethane	120	1022	UD	60	120	600	ppbv
106-93-4	1,2-Dibromoethane	120	922	UD	120	120	600	ppbv

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	01/28/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	01/29/16
Client Sample ID:	INFDL	SDG No.:	H1298
Lab Sample ID:	H1298-01DL	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
VL026768.D	1200		02/02/16 20:35	VL020216

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	11900	80696	D	36	36	36	ppbv
108-90-7	Chlorobenzene	120	552	UD	120	120	600	ppbv
100-41-4	Ethyl Benzene	120	521	UD	120	120	600	ppbv
179601-23-1	m/p-Xylene	240	1042	UD	120	240	1200	ppbv
95-47-6	o-Xylene	120	521	UD	120	120	600	ppbv
100-42-5	Styrene	120	510	UD	120	120	600	ppbv
75-25-2	Bromoform	120	1240	UD	60	120	600	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	36	247	UD	36	36	36	ppbv
95-49-8	2-Chlorotoluene	120	621	UD	120	120	600	ppbv
108-67-8	1,3,5-Trimethylbenzene	120	589	UD	120	120	600	ppbv
95-63-6	1,2,4-Trimethylbenzene	120	589	UD	120	120	600	ppbv
541-73-1	1,3-Dichlorobenzene	120	721	UD	120	120	600	ppbv
106-46-7	1,4-Dichlorobenzene	120	721	UD	120	120	600	ppbv
95-50-1	1,2-Dichlorobenzene	120	721	UD	120	120	600	ppbv
120-82-1	1,2,4-Trichlorobenzene	120	890	UD	48	120	600	ppbv
87-68-3	Hexachloro-1,3-Butadiene	120	1280	UD	120	120	600	ppbv
106-99-0	1,3-Butadiene	120	265	UD	120	120	600	ppbv
91-20-3	Naphthalene	120	629	UD	48	120	600	ppbv
622-96-8	4-Ethyltoluene	120	589	UD	120	120	600	ppbv
110-54-3	Hexane	120	422	UD	48	120	600	ppbv
107-05-1	Allyl Chloride	120	375	UD	60	120	600	ppbv
123-91-1	1,4-Dioxane	120	432	UD	120	120	600	ppbv
80-62-6	Methyl Methacrylate	120	491	UD	120	120	600	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.7			65 - 135		107%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	671291		6.61				
540-36-3	1,4-Difluorobenzene	2118420		8.28				
3114-55-4	Chlorobenzene-d5	2715370		13.69				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	01/28/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	01/29/16
Client Sample ID:	EFF	SDG No.:	H1298
Lab Sample ID:	H1298-02	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
VL026744.D	1		02/02/16 01:42	VL020116

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	1.2	5.93		0.04	0.1	0.5	ppbv
74-87-3	Chloromethane	0.1	0.21	U	0.1	0.1	0.5	ppbv
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.03	0.03	ppbv
74-83-9	Bromomethane	0.1	0.39	U	0.03	0.1	0.5	ppbv
75-00-3	Chloroethane	0.1	0.26	U	0.1	0.1	0.5	ppbv
109-99-9	Tetrahydrofuran	0.1	0.29	U	0.1	0.1	0.5	ppbv
75-69-4	Trichlorofluoromethane	0.1	0.56	U	0.04	0.1	0.5	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	0.1	0.77	U	0.04	0.1	0.5	ppbv
76-14-2	Dichlorotetrafluoroethane	0.1	0.7	U	0.04	0.1	0.5	ppbv
593-60-2	Bromoethene	0.1	0.44	U	0.03	0.1	0.5	ppbv
75-65-0	tert-Butyl alcohol	0.1	0.3	U	0.1	0.1	0.5	ppbv
142-82-5	Heptane	0.1	0.41	U	0.1	0.1	0.5	ppbv
75-35-4	1,1-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
67-64-1	Acetone	0.78	1.85	QB	0.1	0.1	0.5	ppbv
75-15-0	Carbon Disulfide	0.1	0.31	U	0.05	0.1	0.5	ppbv
1634-04-4	Methyl tert-Butyl Ether	0.1	0.36	U	0.05	0.1	0.5	ppbv
75-09-2	Methylene Chloride	0.34	1.18	J	0.05	0.1	0.5	ppbv
156-60-5	trans-1,2-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.04	0.1	0.5	ppbv
110-82-7	Cyclohexane	0.1	0.34	U	0.1	0.1	0.5	ppbv
78-93-3	2-Butanone	0.1	0.29	U	0.1	0.1	0.5	ppbv
56-23-5	Carbon Tetrachloride	0.03	0.19	U	0.03	0.03	0.03	ppbv
156-59-2	cis-1,2-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
67-66-3	Chloroform	0.1	0.49	U	0.02	0.1	0.5	ppbv
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.03	0.03	0.03	ppbv
540-84-1	2,2,4-Trimethylpentane	0.1	0.47	U	0.04	0.1	0.5	ppbv
71-43-2	Benzene	0.1	0.32	U	0.04	0.1	0.5	ppbv
107-06-2	1,2-Dichloroethane	0.1	0.4	U	0.1	0.1	0.5	ppbv
79-01-6	Trichloroethene	0.03	0.16	U	0.02	0.03	0.03	ppbv
78-87-5	1,2-Dichloropropane	0.1	0.46	U	0.1	0.1	0.5	ppbv
75-27-4	Bromodichloromethane	0.1	0.67	U	0.05	0.1	0.5	ppbv
108-10-1	4-Methyl-2-Pentanone	0.1	0.41	U	0.05	0.1	0.5	ppbv
108-88-3	Toluene	0.1	0.38	U	0.05	0.1	0.5	ppbv
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.1	0.1	0.5	ppbv
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.1	0.1	0.5	ppbv
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.1	0.1	0.5	ppbv
124-48-1	Dibromochloromethane	0.1	0.85	U	0.05	0.1	0.5	ppbv
106-93-4	1,2-Dibromoethane	0.1	0.77	U	0.1	0.1	0.5	ppbv

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	01/28/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	01/29/16
Client Sample ID:	EFF	SDG No.:	H1298
Lab Sample ID:	H1298-02	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
VL026744.D	1		02/02/16 01:42	VL020116

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.08	0.54		0.03	0.03	0.03	ppbv
108-90-7	Chlorobenzene	0.1	0.46	U	0.1	0.1	0.5	ppbv
100-41-4	Ethyl Benzene	0.1	0.43	U	0.1	0.1	0.5	ppbv
179601-23-1	m/p-Xylene	0.2	0.87	U	0.1	0.2	1	ppbv
95-47-6	o-Xylene	0.1	0.43	U	0.1	0.1	0.5	ppbv
100-42-5	Styrene	0.1	0.43	U	0.1	0.1	0.5	ppbv
75-25-2	Bromoform	0.1	1.03	U	0.05	0.1	0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.03	0.21	U	0.03	0.03	0.03	ppbv
95-49-8	2-Chlorotoluene	0.1	0.52	U	0.1	0.1	0.5	ppbv
108-67-8	1,3,5-Trimethylbenzene	0.1	0.49	U	0.1	0.1	0.5	ppbv
95-63-6	1,2,4-Trimethylbenzene	0.1	0.49	U	0.1	0.1	0.5	ppbv
541-73-1	1,3-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv
106-46-7	1,4-Dichlorobenzene	0.13	0.78	J	0.1	0.1	0.5	ppbv
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv
120-82-1	1,2,4-Trichlorobenzene	0.1	0.74	U	0.04	0.1	0.5	ppbv
87-68-3	Hexachloro-1,3-Butadiene	0.1	1.07	U	0.1	0.1	0.5	ppbv
106-99-0	1,3-Butadiene	0.1	0.22	U	0.1	0.1	0.5	ppbv
91-20-3	Naphthalene	0.1	0.52	U	0.04	0.1	0.5	ppbv
622-96-8	4-Ethyltoluene	0.1	0.49	U	0.1	0.1	0.5	ppbv
110-54-3	Hexane	0.1	0.35	U	0.04	0.1	0.5	ppbv
107-05-1	Allyl Chloride	0.1	0.31	U	0.05	0.1	0.5	ppbv
123-91-1	1,4-Dioxane	0.1	0.36	UQ	0.1	0.1	0.5	ppbv
80-62-6	Methyl Methacrylate	0.1	0.41	U	0.1	0.1	0.5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135		104%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	535687		6.63				
540-36-3	1,4-Difluorobenzene	1717000		8.31				
3114-55-4	Chlorobenzene-d5	1812040		13.72				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	01/28/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	01/29/16
Client Sample ID:	EFFRE	SDG No.:	H1298
Lab Sample ID:	H1298-02RE	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
VL026767.D	1.2		02/02/16 19:57	VL020216

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	1.6	7.91		0.05	0.12	0.6	ppbv
74-87-3	Chloromethane	0.12	0.25	U	0.12	0.12	0.6	ppbv
75-01-4	Vinyl Chloride	0.04	0.1	U	0.04	0.04	0.04	ppbv
74-83-9	Bromomethane	0.12	0.47	U	0.04	0.12	0.6	ppbv
75-00-3	Chloroethane	0.12	0.32	U	0.12	0.12	0.6	ppbv
109-99-9	Tetrahydrofuran	0.12	0.35	U	0.12	0.12	0.6	ppbv
75-69-4	Trichlorofluoromethane	0.12	0.67	U	0.05	0.12	0.6	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	0.12	0.92	U	0.05	0.12	0.6	ppbv
76-14-2	Dichlorotetrafluoroethane	0.12	0.84	U	0.05	0.12	0.6	ppbv
593-60-2	Bromoethene	0.12	0.52	U	0.04	0.12	0.6	ppbv
75-65-0	tert-Butyl alcohol	0.12	0.36	U	0.12	0.12	0.6	ppbv
142-82-5	Heptane	0.12	0.49	U	0.12	0.12	0.6	ppbv
75-35-4	1,1-Dichloroethene	0.12	0.48	U	0.06	0.12	0.6	ppbv
67-64-1	Acetone	1	2.38	QB	0.12	0.12	0.6	ppbv
75-15-0	Carbon Disulfide	0.12	0.37	U	0.06	0.12	0.6	ppbv
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.06	0.12	0.6	ppbv
75-09-2	Methylene Chloride	0.65	2.26		0.06	0.12	0.6	ppbv
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.06	0.12	0.6	ppbv
75-34-3	1,1-Dichloroethane	0.12	0.49	U	0.05	0.12	0.6	ppbv
110-82-7	Cyclohexane	0.12	0.41	U	0.12	0.12	0.6	ppbv
78-93-3	2-Butanone	0.12	0.35	U	0.12	0.12	0.6	ppbv
56-23-5	Carbon Tetrachloride	0.04	0.25	U	0.04	0.04	0.04	ppbv
156-59-2	cis-1,2-Dichloroethene	0.12	0.48	U	0.06	0.12	0.6	ppbv
67-66-3	Chloroform	0.12	0.59	U	0.02	0.12	0.6	ppbv
71-55-6	1,1,1-Trichloroethane	0.04	0.22	U	0.04	0.04	0.04	ppbv
540-84-1	2,2,4-Trimethylpentane	0.12	0.56	U	0.05	0.12	0.6	ppbv
71-43-2	Benzene	0.12	0.38	U	0.05	0.12	0.6	ppbv
107-06-2	1,2-Dichloroethane	0.12	0.49	U	0.12	0.12	0.6	ppbv
79-01-6	Trichloroethene	0.04	0.21	U	0.02	0.04	0.04	ppbv
78-87-5	1,2-Dichloropropane	0.12	0.55	U	0.12	0.12	0.6	ppbv
75-27-4	Bromodichloromethane	0.12	0.8	U	0.06	0.12	0.6	ppbv
108-10-1	4-Methyl-2-Pentanone	0.12	0.49	U	0.06	0.12	0.6	ppbv
108-88-3	Toluene	0.12	0.45	U	0.06	0.12	0.6	ppbv
10061-02-6	t-1,3-Dichloropropene	0.12	0.54	U	0.12	0.12	0.6	ppbv
10061-01-5	cis-1,3-Dichloropropene	0.12	0.54	U	0.12	0.12	0.6	ppbv
79-00-5	1,1,2-Trichloroethane	0.12	0.65	U	0.12	0.12	0.6	ppbv
124-48-1	Dibromochloromethane	0.12	1.02	U	0.06	0.12	0.6	ppbv
106-93-4	1,2-Dibromoethane	0.12	0.92	U	0.12	0.12	0.6	ppbv

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	01/28/16
Project:	Frost Street Sites / SPGL 100.03	Date Received:	01/29/16
Client Sample ID:	EFFRE	SDG No.:	H1298
Lab Sample ID:	H1298-02RE	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
VL026767.D	1.2		02/02/16 19:57	VL020216

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	1.3	8.82		0.04	0.04	0.04	ppbv
108-90-7	Chlorobenzene	0.12	0.55	U	0.12	0.12	0.6	ppbv
100-41-4	Ethyl Benzene	0.12	0.52	U	0.12	0.12	0.6	ppbv
179601-23-1	m/p-Xylene	0.24	1.04	U	0.12	0.24	1.2	ppbv
95-47-6	o-Xylene	0.12	0.52	U	0.12	0.12	0.6	ppbv
100-42-5	Styrene	0.12	0.51	U	0.12	0.12	0.6	ppbv
75-25-2	Bromoform	0.12	1.24	U	0.06	0.12	0.6	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.04	0.27	U	0.04	0.04	0.04	ppbv
95-49-8	2-Chlorotoluene	0.12	0.62	U	0.12	0.12	0.6	ppbv
108-67-8	1,3,5-Trimethylbenzene	0.12	0.59	U	0.12	0.12	0.6	ppbv
95-63-6	1,2,4-Trimethylbenzene	0.12	0.59	U	0.12	0.12	0.6	ppbv
541-73-1	1,3-Dichlorobenzene	0.12	0.72	U	0.12	0.12	0.6	ppbv
106-46-7	1,4-Dichlorobenzene	0.17	1.02	J	0.12	0.12	0.6	ppbv
95-50-1	1,2-Dichlorobenzene	0.12	0.72	U	0.12	0.12	0.6	ppbv
120-82-1	1,2,4-Trichlorobenzene	0.12	0.89	U	0.05	0.12	0.6	ppbv
87-68-3	Hexachloro-1,3-Butadiene	0.12	1.28	U	0.12	0.12	0.6	ppbv
106-99-0	1,3-Butadiene	0.12	0.27	U	0.12	0.12	0.6	ppbv
91-20-3	Naphthalene	0.12	0.63	U	0.05	0.12	0.6	ppbv
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.12	0.12	0.6	ppbv
110-54-3	Hexane	0.12	0.42	U	0.05	0.12	0.6	ppbv
107-05-1	Allyl Chloride	0.12	0.38	U	0.06	0.12	0.6	ppbv
123-91-1	1,4-Dioxane	0.12	0.43	U	0.12	0.12	0.6	ppbv
80-62-6	Methyl Methacrylate	0.12	0.49	U	0.12	0.12	0.6	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	9.1			65 - 135		91%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	511076		6.61				
540-36-3	1,4-Difluorobenzene	1455350		8.28				
3114-55-4	Chlorobenzene-d5	2143070		13.69				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

QC SUMMARY

Surrogate Summary

SDG No.: H1298Client: Envirotrac Environmental ServicesAnalytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
H1271-01DUP	IA-001-012616DUP	1-Bromo-4-Fluorobenzene	10	12.15	121	65	135
H1298-01	INF	1-Bromo-4-Fluorobenzene	10	10.96	110	65	135
H1298-01DL	INFDL	1-Bromo-4-Fluorobenzene	10	10.67	107	65	135
H1298-02	EFF	1-Bromo-4-Fluorobenzene	10	10.39	104	65	135
H1298-02RE	EFFRE	1-Bromo-4-Fluorobenzene	10	9.06	91	65	135
VL0201ABL01	VL0201ABL01	1-Bromo-4-Fluorobenzene	10	10.23	102	65	135
VL0201ABS01	VL0201ABS01	1-Bromo-4-Fluorobenzene	10	10.76	108	65	135
VL0202ABL01	VL0202ABL01	1-Bromo-4-Fluorobenzene	10	10.38	104	65	135
VL0202ABS01	VL0202ABS01	1-Bromo-4-Fluorobenzene	10	10.76	108	65	135

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

SDG No.: H1298

Client: Envirotrac Environmental Services

Analytical Method: SWTO-15

Datafile : VL026733.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL0201ABS01	Dichlorodifluoromethane	10	8	ppbv	80			70	130	
	Chloromethane	10	9.2	ppbv	92			70	130	
	Vinyl Chloride	10	9.4	ppbv	94			70	130	
	Bromomethane	10	9.4	ppbv	94			70	130	
	Chloroethane	10	9	ppbv	90			70	130	
	Tetrahydrofuran	10	9.8	ppbv	98			70	130	
	Trichlorofluoromethane	10	8.5	ppbv	85			70	130	
	1,1,2-Trichlorotrifluoroethane	10	8.6	ppbv	86			70	130	
	Dichlorotetrafluoroethane	10	9	ppbv	90			70	130	
	Bromoethene	10	9	ppbv	90			70	130	
	tert-Butyl Alcohol	10	10.3	ppbv	103			70	130	
	Heptane	10	9	ppbv	90			70	130	
	1,1-Dichloroethene	10	9	ppbv	90			70	130	
	Acetone	10	6	ppbv	60	*		70	130	
	Carbon disulfide	10	9	ppbv	90			70	130	
	Methyl tert-butyl Ether	10	9.4	ppbv	94			70	130	
	Methylene Chloride	10	8.7	ppbv	87			70	130	
	trans-1,2-Dichloroethene	10	9.1	ppbv	91			70	130	
	1,1-Dichloroethane	10	8.9	ppbv	89			70	130	
	Cyclohexane	10	9.3	ppbv	93			70	130	
	2-Butanone	10	8.7	ppbv	87			70	130	
	Carbon Tetrachloride	10	9.2	ppbv	92			70	130	
	cis-1,2-Dichloroethene	10	9.4	ppbv	94			70	130	
	Chloroform	10	8.8	ppbv	88			70	130	
	1,1,1-Trichloroethane	10	9.1	ppbv	91			70	130	
	2,2,4-Trimethylpentane	10	9.4	ppbv	94			70	130	
	Benzene	10	9.6	ppbv	96			70	130	
	1,2-Dichloroethane	10	9.2	ppbv	92			70	130	
	Trichloroethene	10	9.5	ppbv	95			70	130	
	1,2-Dichloropropane	10	9.2	ppbv	92			70	130	
	Bromodichloromethane	10	9.1	ppbv	91			70	130	
	4-Methyl-2-Pentanone	10	8.9	ppbv	89			70	130	
	Toluene	10	9.5	ppbv	95			70	130	
	t-1,3-Dichloropropene	10	10.1	ppbv	101			70	130	
	cis-1,3-Dichloropropene	10	10.1	ppbv	101			70	130	
	1,1,2-Trichloroethane	10	8.8	ppbv	88			70	130	
	Dibromochloromethane	10	8.6	ppbv	86			70	130	
	1,2-Dibromoethane	10	8.5	ppbv	85			70	130	
	Tetrachloroethene	10	8.7	ppbv	87			70	130	
	Chlorobenzene	10	8.7	ppbv	87			70	130	
	Ethyl Benzene	10	10.1	ppbv	101			70	130	
	m/p-Xylene	20	18.5	ppbv	93			70	130	
	o-Xylene	10	8.8	ppbv	88			70	130	
	Styrene	10	10.4	ppbv	104			70	130	
	Bromoform	10	8.1	ppbv	81			70	130	
	1,1,2,2-Tetrachloroethane	10	7.7	ppbv	77			70	130	
	2-Chlorotoluene	10	9.1	ppbv	91			70	130	
	1,3,5-Trimethylbenzene	10	8.7	ppbv	87			70	130	
	1,2,4-Trimethylbenzene	10	8	ppbv	80			70	130	

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

SDG No.: H1298
Client: Envirotrac Environmental Services
Analytical Method: SWTO-15

Datafile : VL026733.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL0201ABS01	1,3-Dichlorobenzene	10	7.6	ppbv	76			70	130	
	1,4-Dichlorobenzene	10	7.7	ppbv	77			70	130	
	1,2-Dichlorobenzene	10	7.5	ppbv	75			70	130	
	1,2,4-Trichlorobenzene	10	8.7	ppbv	87			70	130	
	Hexachloro-1,3-butadiene	10	7.9	ppbv	79			70	130	
	Naphthalene	10	8.6	ppbv	86			70	130	
	1,3-Butadiene	10	9	ppbv	90			70	130	
	4-Ethyltoluene	10	9.1	ppbv	91			70	130	
	Hexane	10	9.7	ppbv	97			70	130	
	Allyl Chloride	10	9.1	ppbv	91			70	130	
	1,4-Dioxane	10	4.7	ppbv	47		*	70	130	
	Methyl methacrylate	10	9.6	ppbv	96			70	130	

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

SDG No.: H1298

Client: Envirotrac Environmental Services

Analytical Method: SWTO-15

Datafile : VL026760.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL0202ABS01	Dichlorodifluoromethane	10	9.8	ppbv	98			70	130	
	Chloromethane	10	8.5	ppbv	85			70	130	
	Vinyl Chloride	10	9.2	ppbv	92			70	130	
	Bromomethane	10	9.8	ppbv	98			70	130	
	Chloroethane	10	9	ppbv	90			70	130	
	Tetrahydrofuran	10	9.5	ppbv	95			70	130	
	Trichlorofluoromethane	10	9.8	ppbv	98			70	130	
	1,1,2-Trichlorotrifluoroethane	10	9.6	ppbv	96			70	130	
	Dichlorotetrafluoroethane	10	9.6	ppbv	96			70	130	
	Bromoethene	10	9.6	ppbv	96			70	130	
	tert-Butyl Alcohol	10	11.9	ppbv	119			70	130	
	Heptane	10	8.5	ppbv	85			70	130	
	1,1-Dichloroethene	10	9.6	ppbv	96			70	130	
	Acetone	10	6.3	ppbv	63		*	70	130	
	Carbon disulfide	10	9.5	ppbv	95			70	130	
	Methyl tert-butyl Ether	10	9.7	ppbv	97			70	130	
	Methylene Chloride	10	9.2	ppbv	92			70	130	
	trans-1,2-Dichloroethene	10	9.2	ppbv	92			70	130	
	1,1-Dichloroethane	10	8.8	ppbv	88			70	130	
	Cyclohexane	10	8.9	ppbv	89			70	130	
	2-Butanone	10	9.1	ppbv	91			70	130	
	Carbon Tetrachloride	10	10.3	ppbv	103			70	130	
	cis-1,2-Dichloroethene	10	9.5	ppbv	95			70	130	
	Chloroform	10	9.2	ppbv	92			70	130	
	1,1,1-Trichloroethane	10	9.8	ppbv	98			70	130	
	2,2,4-Trimethylpentane	10	9.3	ppbv	93			70	130	
	Benzene	10	9.4	ppbv	94			70	130	
	1,2-Dichloroethane	10	10.3	ppbv	103			70	130	
	Trichloroethene	10	9.6	ppbv	96			70	130	
	1,2-Dichloropropane	10	9	ppbv	90			70	130	
	Bromodichloromethane	10	9.8	ppbv	98			70	130	
	4-Methyl-2-Pentanone	10	9.1	ppbv	91			70	130	
	Toluene	10	9.4	ppbv	94			70	130	
	t-1,3-Dichloropropene	10	10.5	ppbv	105			70	130	
	cis-1,3-Dichloropropene	10	10.1	ppbv	101			70	130	
	1,1,2-Trichloroethane	10	8.9	ppbv	89			70	130	
	Dibromochloromethane	10	9.5	ppbv	95			70	130	
	1,2-Dibromoethane	10	9	ppbv	90			70	130	
	Tetrachloroethene	10	9.1	ppbv	91			70	130	
	Chlorobenzene	10	8.6	ppbv	86			70	130	
	Ethyl Benzene	10	10	ppbv	100			70	130	
	m/p-Xylene	20	18.9	ppbv	95			70	130	
	o-Xylene	10	9.1	ppbv	91			70	130	
	Styrene	10	10.3	ppbv	103			70	130	
	Bromoform	10	9.3	ppbv	93			70	130	
	1,1,2,2-Tetrachloroethane	10	7.8	ppbv	78			70	130	
	2-Chlorotoluene	10	9.6	ppbv	96			70	130	
	1,3,5-Trimethylbenzene	10	9.4	ppbv	94			70	130	
	1,2,4-Trimethylbenzene	10	8.7	ppbv	87			70	130	

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

SDG No.: H1298
Client: Envirotrac Environmental Services
Analytical Method: SWTO-15

Datafile : VL026760.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	
									High	RPD
VL0202ABS01	1,3-Dichlorobenzene	10	8.2	ppbv	82			70	130	
	1,4-Dichlorobenzene	10	8.7	ppbv	87			70	130	
	1,2-Dichlorobenzene	10	8.2	ppbv	82			70	130	
	1,2,4-Trichlorobenzene	10	10.2	ppbv	102			70	130	
	Hexachloro-1,3-butadiene	10	9.7	ppbv	97			70	130	
	Naphthalene	10	9.6	ppbv	96			70	130	
	1,3-Butadiene	10	8.8	ppbv	88			70	130	
	4-Ethyltoluene	10	9.6	ppbv	96			70	130	
	Hexane	10	9.4	ppbv	94			70	130	
	Allyl Chloride	10	9.6	ppbv	96			70	130	
	1,4-Dioxane	10	10.3	ppbv	103			70	130	
	Methyl methacrylate	10	9.7	ppbv	97			70	130	

Duplicate Sample Summary

Lab Sample Id :	H1271-01DUP	H1271-01
Client Id :	IA-001-012616DUP	IA-001-012616
DF :	1	1
Datafile :	VL026737.D	VL026736.D
Anal Date & Time :	02/01/2016 21:04	02/01/2016 20:23

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	0	0	0
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	0	0	0
1,3-Butadiene	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0	0	0
2,2,4-Trimethylpentane	0	0	0
2-Butanone	0.23	0.25	8.3
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	2.3	2.4	4.3
Allyl Chloride	0	0	0
Benzene	0.15	0.15	0
Bromodichloromethane	0	0	0
Bromoethene	0	0	0
Bromoform	0.22	0.23	4.4
Bromomethane	0	0	0
Carbon Disulfide	0	0	0

Duplicate Sample Summary

Lab Sample Id :	H1271-01DUP	H1271-01
Client Id :	IA-001-012616DUP	IA-001-012616
DF :	1	1
Datafile :	VL026737.D	VL026736.D
Anal Date & Time :	02/01/2016 21:04	02/01/2016 20:23

Parameter	Result	Result	RPD
Carbon Tetrachloride	0.08	0.09	11.8
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0.5	0.57	13.1
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.62	0.61	1.6
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	0	0	0
m/p-Xylene	0	0	0
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	0.57	0.63	10
Naphthalene	0	0	0
o-Xylene	0	0	0
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0	0	0
Tetrahydrofuran	0	0	0
Toluene	0.29	0.31	6.7
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.27	0.29	7.1
Vinyl Chloride	0	0	0

Duplicate Sample Summary

Lab Sample Id :

H1271-01DUP

H1271-01

Client Id :

IA-001-012616DUP

IA-001-012616

DF :

1

1

Datafile :

VL026737.D

VL026736.D

Anal Date & Time :

02/01/2016

21:04

02/01/2016

20:23

Parameter	Result	Result	RPD

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0201ABL01

Lab Name: CHEMTECH

Contract: ENVI27

Lab Code: CHEM Case No.: H1298

SAS No.: H1298 SDG NO.: H1298

Lab File ID: VL026732.D

Lab Sample ID: VL0201ABL01

Date Analyzed: 02/01/2016

Time Analyzed: 17:32

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
VL0201ABS01	VL0201ABS01	VL026733.D	02/01/2016
IA-001-012616DUP	H1271-01DUP	VL026737.D	02/01/2016
EFF	H1298-02	VL026744.D	02/02/2016
INF	H1298-01	VL026746.D	02/02/2016

COMMENTS:

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0202ABL01

Lab Name: CHEMTECH

Contract: ENVI27

Lab Code: CHEM Case No.: H1298

SAS No.: H1298 SDG NO.: H1298

Lab File ID: VL026759.D

Lab Sample ID: VL0202ABL01

Date Analyzed: 02/02/2016

Time Analyzed: 14:22

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
VL0202ABS01	VL0202ABS01	VL026760.D	02/02/2016
EFFRE	H1298-02RE	VL026767.D	02/02/2016
INFDL	H1298-01DL	VL026768.D	02/02/2016

COMMENTS:

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: ENVI27
Lab Code: CHEM Case No.: H1298 SAS No.: H1298 SDG NO.: H1298
Lab File ID: VL026723.D BFB Injection Date: 02/01/2016
Instrument ID: MSVOA_L BFB Injection Time: 09:57
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	22.6
75	30.0 - 66.0% of mass 95	59.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.8) 1
174	50.0 - 120.0% of mass 95	61.7
175	4.0 - 9.0% of mass 174	4.3 (7) 1
176	93.0 - 101.0% of mass 174	59.1 (95.9) 1
177	5.0 - 9.0% of mass 176	3.8 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL026724.D	02/01/2016	10:36
VSTDICCC002	VSTDICCC002	VL026725.D	02/01/2016	11:17
VSTDICCC001	VSTDICCC001	VL026726.D	02/01/2016	11:55
VSTDICCC0.5	VSTDICCC0.5	VL026727.D	02/01/2016	12:32
VSTDICCC0.1	VSTDICCC0.1	VL026728.D	02/01/2016	13:10
VSTDICCC0.03	VSTDICCC0.03	VL026729.D	02/01/2016	13:47
VSTDICCC015	VSTDICCC015	VL026730.D	02/01/2016	14:28
VL0201ABL01	VL0201ABL01	VL026732.D	02/01/2016	17:32
VL0201ABS01	VL0201ABS01	VL026733.D	02/01/2016	18:19
IA-001-012616DUP	H1271-01DUP	VL026737.D	02/01/2016	21:04
EFF	H1298-02	VL026744.D	02/02/2016	01:42
INF	H1298-01	VL026746.D	02/02/2016	02:59

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name:	<u>CHEMTECH</u>	Contract:	<u>ENVI27</u>
Lab Code:	<u>CHEM</u>	Case No.:	<u>H1298</u>
Lab File ID:	<u>VL026757.D</u>	SAS No.:	<u>H1298</u>
Instrument ID:	<u>MSVOA_L</u>	SDG NO.:	<u>H1298</u>
GC Column:	<u>RTX-1</u>	BFB Injection Date:	<u>02/02/2016</u>
ID:	<u>0.32</u> (mm)	BFB Injection Time:	<u>11:15</u>
		Heated Purge:	<u>Y/N</u>
			<u>N</u>

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.5
75	30.0 - 66.0% of mass 95	62.7
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	0.3 (0.5) 1
174	50.0 - 120.0% of mass 95	61.8
175	4.0 - 9.0% of mass 174	4.6 (7.5) 1
176	93.0 - 101.0% of mass 174	59.4 (96.1) 1
177	5.0 - 9.0% of mass 176	3.9 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL026758.D	02/02/2016	12:45
VL0202ABL01	VL0202ABL01	VL026759.D	02/02/2016	14:22
VL0202ABS01	VL0202ABS01	VL026760.D	02/02/2016	15:01
EFFRE	H1298-02RE	VL026767.D	02/02/2016	19:57
INFDL	H1298-01DL	VL026768.D	02/02/2016	20:35

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: H1298 SAS No.: H1298 SDG NO.: H1298
 Lab File ID: VL026724.D Date Analyzed: 02/01/2016
 Instrument ID: MSVOA_L Time Analyzed: 10:36
 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	789997	6.67	2480650	8.35	3345930	13.77
UPPER LIMIT	1106000	7.00	3472900	8.68	4684300	14.10
LOWER LIMIT	473998	6.34	1488390	8.02	2007560	13.44
EPA SAMPLE NO.						
IA-001-012616DUP	565278	6.65	1846204	8.32	1611685	13.74
INF	609502	6.64	1904510	8.31	2670805	13.74
EFF	535687	6.63	1716996	8.31	1812042 *	13.72
VL0201ABL01	802261	6.66	2512591	8.33	3523100	13.75
VL0201ABS01	854553	6.65	2699619	8.33	3271963	13.75

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.: H1298 SAS No.: H1298 SDG NO.: H1298
 Lab File ID: VL026758.D Date Analyzed: 02/02/2016
 Instrument ID: MSVOA_L Time Analyzed: 12:45
 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	851932	6.62	2519980	8.29	2996860	13.71
UPPER LIMIT	1192700	6.95	3527970	8.62	4195610	14.04
LOWER LIMIT	511159	6.29	1511990	7.96	1798120	13.38
EPA SAMPLE NO.						
INFDL	671291	6.61	2118424	8.28	2715368	13.69
EFFRE	511076 *	6.61	1455345 *	8.28	2143072	13.69
VL0202ABL01	715202	6.62	2207318	8.29	2946908	13.69
VL0202ABS01	749837	6.63	2266411	8.30	2831021	13.71

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

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

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

QC SAMPLE DATA

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	
Project:	Frost Street Sites / SPGL 100.03	Date Received:	
Client Sample ID:	VL0201ABL01	SDG No.:	H1298
Lab Sample ID:	VL0201ABL01	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
VL026732.D	1		02/01/16 17:32	VL020116

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.1	0.49	U	0.04	0.1	0.5	ppbv
74-87-3	Chloromethane	0.1	0.21	U	0.1	0.1	0.5	ppbv
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.03	0.03	ppbv
74-83-9	Bromomethane	0.1	0.39	U	0.03	0.1	0.5	ppbv
75-00-3	Chloroethane	0.1	0.26	U	0.1	0.1	0.5	ppbv
109-99-9	Tetrahydrofuran	0.1	0.29	U	0.1	0.1	0.5	ppbv
75-69-4	Trichlorofluoromethane	0.1	0.56	U	0.04	0.1	0.5	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	0.1	0.77	U	0.04	0.1	0.5	ppbv
76-14-2	Dichlorotetrafluoroethane	0.1	0.7	U	0.04	0.1	0.5	ppbv
593-60-2	Bromoethene	0.1	0.44	U	0.03	0.1	0.5	ppbv
75-65-0	tert-Butyl alcohol	0.1	0.3	U	0.1	0.1	0.5	ppbv
142-82-5	Heptane	0.1	0.41	U	0.1	0.1	0.5	ppbv
75-35-4	1,1-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
67-64-1	Acetone	0.26	0.62	J	0.1	0.1	0.5	ppbv
75-15-0	Carbon Disulfide	0.1	0.31	U	0.05	0.1	0.5	ppbv
1634-04-4	Methyl tert-Butyl Ether	0.1	0.36	U	0.05	0.1	0.5	ppbv
75-09-2	Methylene Chloride	0.1	0.35	U	0.05	0.1	0.5	ppbv
156-60-5	trans-1,2-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.04	0.1	0.5	ppbv
110-82-7	Cyclohexane	0.1	0.34	U	0.1	0.1	0.5	ppbv
78-93-3	2-Butanone	0.1	0.29	U	0.1	0.1	0.5	ppbv
56-23-5	Carbon Tetrachloride	0.03	0.19	U	0.03	0.03	0.03	ppbv
156-59-2	cis-1,2-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
67-66-3	Chloroform	0.1	0.49	U	0.02	0.1	0.5	ppbv
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.03	0.03	0.03	ppbv
540-84-1	2,2,4-Trimethylpentane	0.1	0.47	U	0.04	0.1	0.5	ppbv
71-43-2	Benzene	0.1	0.32	U	0.04	0.1	0.5	ppbv
107-06-2	1,2-Dichloroethane	0.1	0.4	U	0.1	0.1	0.5	ppbv
79-01-6	Trichloroethene	0.03	0.16	U	0.02	0.03	0.03	ppbv
78-87-5	1,2-Dichloropropane	0.1	0.46	U	0.1	0.1	0.5	ppbv
75-27-4	Bromodichloromethane	0.1	0.67	U	0.05	0.1	0.5	ppbv
108-10-1	4-Methyl-2-Pentanone	0.1	0.41	U	0.05	0.1	0.5	ppbv
108-88-3	Toluene	0.1	0.38	U	0.05	0.1	0.5	ppbv
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.1	0.1	0.5	ppbv
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.1	0.1	0.5	ppbv
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.1	0.1	0.5	ppbv
124-48-1	Dibromochloromethane	0.1	0.85	U	0.05	0.1	0.5	ppbv
106-93-4	1,2-Dibromoethane	0.1	0.77	U	0.1	0.1	0.5	ppbv

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	
Project:	Frost Street Sites / SPGL 100.03	Date Received:	
Client Sample ID:	VL0201ABL01	SDG No.:	H1298
Lab Sample ID:	VL0201ABL01	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
VL026732.D	1		02/01/16 17:32	VL020116

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.03	0.2	U	0.03	0.03	0.03	ppbv
108-90-7	Chlorobenzene	0.1	0.46	U	0.1	0.1	0.5	ppbv
100-41-4	Ethyl Benzene	0.1	0.43	U	0.1	0.1	0.5	ppbv
179601-23-1	m/p-Xylene	0.2	0.87	U	0.1	0.2	1	ppbv
95-47-6	o-Xylene	0.1	0.43	U	0.1	0.1	0.5	ppbv
100-42-5	Styrene	0.1	0.43	U	0.1	0.1	0.5	ppbv
75-25-2	Bromoform	0.1	1.03	U	0.05	0.1	0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.03	0.21	U	0.03	0.03	0.03	ppbv
95-49-8	2-Chlorotoluene	0.1	0.52	U	0.1	0.1	0.5	ppbv
108-67-8	1,3,5-Trimethylbenzene	0.1	0.49	U	0.1	0.1	0.5	ppbv
95-63-6	1,2,4-Trimethylbenzene	0.1	0.49	U	0.1	0.1	0.5	ppbv
541-73-1	1,3-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv
106-46-7	1,4-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv
120-82-1	1,2,4-Trichlorobenzene	0.1	0.74	U	0.04	0.1	0.5	ppbv
87-68-3	Hexachloro-1,3-Butadiene	0.1	1.07	U	0.1	0.1	0.5	ppbv
106-99-0	1,3-Butadiene	0.1	0.22	U	0.1	0.1	0.5	ppbv
91-20-3	Naphthalene	0.1	0.52	U	0.04	0.1	0.5	ppbv
622-96-8	4-Ethyltoluene	0.1	0.49	U	0.1	0.1	0.5	ppbv
110-54-3	Hexane	0.1	0.35	U	0.04	0.1	0.5	ppbv
107-05-1	Allyl Chloride	0.1	0.31	U	0.05	0.1	0.5	ppbv
123-91-1	1,4-Dioxane	0.1	0.36	U	0.1	0.1	0.5	ppbv
80-62-6	Methyl Methacrylate	0.1	0.41	U	0.1	0.1	0.5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135		102%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	802261		6.66				
540-36-3	1,4-Difluorobenzene	2512590		8.33				
3114-55-4	Chlorobenzene-d5	3523100		13.75				

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:	VL0202ABL01	SDG No.:	H1298
Lab Sample ID:	VL0202ABL01	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
VL026759.D	1		02/02/16 14:22	VL020216

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	0.1	0.49	U	0.04	0.1	0.5	ppbv
74-87-3	Chloromethane	0.1	0.21	U	0.1	0.1	0.5	ppbv
75-01-4	Vinyl Chloride	0.03	0.08	U	0.03	0.03	0.03	ppbv
74-83-9	Bromomethane	0.1	0.39	U	0.03	0.1	0.5	ppbv
75-00-3	Chloroethane	0.1	0.26	U	0.1	0.1	0.5	ppbv
109-99-9	Tetrahydrofuran	0.1	0.29	U	0.1	0.1	0.5	ppbv
75-69-4	Trichlorofluoromethane	0.1	0.56	U	0.04	0.1	0.5	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	0.1	0.77	U	0.04	0.1	0.5	ppbv
76-14-2	Dichlorotetrafluoroethane	0.1	0.7	U	0.04	0.1	0.5	ppbv
593-60-2	Bromoethene	0.1	0.44	U	0.03	0.1	0.5	ppbv
75-65-0	tert-Butyl alcohol	0.1	0.3	U	0.1	0.1	0.5	ppbv
142-82-5	Heptane	0.1	0.41	U	0.1	0.1	0.5	ppbv
75-35-4	1,1-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
67-64-1	Acetone	0.25	0.59	J	0.1	0.1	0.5	ppbv
75-15-0	Carbon Disulfide	0.1	0.31	U	0.05	0.1	0.5	ppbv
1634-04-4	Methyl tert-Butyl Ether	0.1	0.36	U	0.05	0.1	0.5	ppbv
75-09-2	Methylene Chloride	0.1	0.35	U	0.05	0.1	0.5	ppbv
156-60-5	trans-1,2-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
75-34-3	1,1-Dichloroethane	0.1	0.4	U	0.04	0.1	0.5	ppbv
110-82-7	Cyclohexane	0.1	0.34	U	0.1	0.1	0.5	ppbv
78-93-3	2-Butanone	0.1	0.29	U	0.1	0.1	0.5	ppbv
56-23-5	Carbon Tetrachloride	0.03	0.19	U	0.03	0.03	0.03	ppbv
156-59-2	cis-1,2-Dichloroethene	0.1	0.4	U	0.05	0.1	0.5	ppbv
67-66-3	Chloroform	0.1	0.49	U	0.02	0.1	0.5	ppbv
71-55-6	1,1,1-Trichloroethane	0.03	0.16	U	0.03	0.03	0.03	ppbv
540-84-1	2,2,4-Trimethylpentane	0.1	0.47	U	0.04	0.1	0.5	ppbv
71-43-2	Benzene	0.1	0.32	U	0.04	0.1	0.5	ppbv
107-06-2	1,2-Dichloroethane	0.1	0.4	U	0.1	0.1	0.5	ppbv
79-01-6	Trichloroethene	0.03	0.16	U	0.02	0.03	0.03	ppbv
78-87-5	1,2-Dichloropropane	0.1	0.46	U	0.1	0.1	0.5	ppbv
75-27-4	Bromodichloromethane	0.1	0.67	U	0.05	0.1	0.5	ppbv
108-10-1	4-Methyl-2-Pentanone	0.1	0.41	U	0.05	0.1	0.5	ppbv
108-88-3	Toluene	0.1	0.38	U	0.05	0.1	0.5	ppbv
10061-02-6	t-1,3-Dichloropropene	0.1	0.45	U	0.1	0.1	0.5	ppbv
10061-01-5	cis-1,3-Dichloropropene	0.1	0.45	U	0.1	0.1	0.5	ppbv
79-00-5	1,1,2-Trichloroethane	0.1	0.55	U	0.1	0.1	0.5	ppbv
124-48-1	Dibromochloromethane	0.1	0.85	U	0.05	0.1	0.5	ppbv
106-93-4	1,2-Dibromoethane	0.1	0.77	U	0.1	0.1	0.5	ppbv

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	
Project:	Frost Street Sites / SPGL 100.03	Date Received:	
Client Sample ID:	VL0202ABL01	SDG No.:	H1298
Lab Sample ID:	VL0202ABL01	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
VL026759.D	1		02/02/16 14:22	VL020216

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	0.03	0.2	U	0.03	0.03	0.03	ppbv
108-90-7	Chlorobenzene	0.1	0.46	U	0.1	0.1	0.5	ppbv
100-41-4	Ethyl Benzene	0.1	0.43	U	0.1	0.1	0.5	ppbv
179601-23-1	m/p-Xylene	0.2	0.87	U	0.1	0.2	1	ppbv
95-47-6	o-Xylene	0.1	0.43	U	0.1	0.1	0.5	ppbv
100-42-5	Styrene	0.1	0.43	U	0.1	0.1	0.5	ppbv
75-25-2	Bromoform	0.1	1.03	U	0.05	0.1	0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	0.03	0.21	U	0.03	0.03	0.03	ppbv
95-49-8	2-Chlorotoluene	0.1	0.52	U	0.1	0.1	0.5	ppbv
108-67-8	1,3,5-Trimethylbenzene	0.1	0.49	U	0.1	0.1	0.5	ppbv
95-63-6	1,2,4-Trimethylbenzene	0.1	0.49	U	0.1	0.1	0.5	ppbv
541-73-1	1,3-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv
106-46-7	1,4-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv
95-50-1	1,2-Dichlorobenzene	0.1	0.6	U	0.1	0.1	0.5	ppbv
120-82-1	1,2,4-Trichlorobenzene	0.1	0.74	U	0.04	0.1	0.5	ppbv
87-68-3	Hexachloro-1,3-Butadiene	0.1	1.07	U	0.1	0.1	0.5	ppbv
106-99-0	1,3-Butadiene	0.1	0.22	U	0.1	0.1	0.5	ppbv
91-20-3	Naphthalene	0.1	0.52	U	0.04	0.1	0.5	ppbv
622-96-8	4-Ethyltoluene	0.1	0.49	U	0.1	0.1	0.5	ppbv
110-54-3	Hexane	0.1	0.35	U	0.04	0.1	0.5	ppbv
107-05-1	Allyl Chloride	0.1	0.31	U	0.05	0.1	0.5	ppbv
123-91-1	1,4-Dioxane	0.1	0.36	U	0.1	0.1	0.5	ppbv
80-62-6	Methyl Methacrylate	0.1	0.41	U	0.1	0.1	0.5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135		104%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	715202		6.62				
540-36-3	1,4-Difluorobenzene	2207320		8.29				
3114-55-4	Chlorobenzene-d5	2946910		13.69				

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	
Project:	Frost Street Sites / SPGL 100.03	Date Received:	
Client Sample ID:	VL0201ABS01	SDG No.:	H1298
Lab Sample ID:	VL0201ABS01	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
VL026733.D	1		02/01/16 18:19	VL020116

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	8	39.6		0.04	0.1	0.5	ppbv
74-87-3	Chloromethane	9.2	19		0.1	0.1	0.5	ppbv
75-01-4	Vinyl Chloride	9.4	24.0		0.03	0.03	0.03	ppbv
74-83-9	Bromomethane	9.4	36.5		0.03	0.1	0.5	ppbv
75-00-3	Chloroethane	9	23.8		0.1	0.1	0.5	ppbv
109-99-9	Tetrahydrofuran	9.8	28.9		0.1	0.1	0.5	ppbv
75-69-4	Trichlorofluoromethane	8.5	47.8		0.04	0.1	0.5	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	8.6	65.9		0.04	0.1	0.5	ppbv
76-14-2	Dichlorotetrafluoroethane	9	62.9		0.04	0.1	0.5	ppbv
593-60-2	Bromoethene	9	39.4		0.03	0.1	0.5	ppbv
75-65-0	tert-Butyl alcohol	10.3	31.2		0.1	0.1	0.5	ppbv
142-82-5	Heptane	9	36.9		0.1	0.1	0.5	ppbv
75-35-4	1,1-Dichloroethene	9	35.7		0.05	0.1	0.5	ppbv
67-64-1	Acetone	6	14.2		0.1	0.1	0.5	ppbv
75-15-0	Carbon Disulfide	9	28.0		0.05	0.1	0.5	ppbv
1634-04-4	Methyl tert-Butyl Ether	9.4	33.9		0.05	0.1	0.5	ppbv
75-09-2	Methylene Chloride	8.7	30.2		0.05	0.1	0.5	ppbv
156-60-5	trans-1,2-Dichloroethene	9.1	36.1		0.05	0.1	0.5	ppbv
75-34-3	1,1-Dichloroethane	8.9	36.0		0.04	0.1	0.5	ppbv
110-82-7	Cyclohexane	9.3	32.0		0.1	0.1	0.5	ppbv
78-93-3	2-Butanone	8.7	25.7		0.1	0.1	0.5	ppbv
56-23-5	Carbon Tetrachloride	9.2	57.9		0.03	0.03	0.03	ppbv
156-59-2	cis-1,2-Dichloroethene	9.4	37.3		0.05	0.1	0.5	ppbv
67-66-3	Chloroform	8.8	43.0		0.02	0.1	0.5	ppbv
71-55-6	1,1,1-Trichloroethane	9.1	49.6		0.03	0.03	0.03	ppbv
540-84-1	2,2,4-Trimethylpentane	9.4	43.9		0.04	0.1	0.5	ppbv
71-43-2	Benzene	9.6	30.7		0.04	0.1	0.5	ppbv
107-06-2	1,2-Dichloroethane	9.2	37.2		0.1	0.1	0.5	ppbv
79-01-6	Trichloroethene	9.5	51.1		0.02	0.03	0.03	ppbv
78-87-5	1,2-Dichloropropane	9.2	42.5		0.1	0.1	0.5	ppbv
75-27-4	Bromodichloromethane	9.1	61.0		0.05	0.1	0.5	ppbv
108-10-1	4-Methyl-2-Pentanone	8.9	36.5		0.05	0.1	0.5	ppbv
108-88-3	Toluene	9.5	35.8		0.05	0.1	0.5	ppbv
10061-02-6	t-1,3-Dichloropropene	10.1	45.8		0.1	0.1	0.5	ppbv
10061-01-5	cis-1,3-Dichloropropene	10.1	45.8		0.1	0.1	0.5	ppbv
79-00-5	1,1,2-Trichloroethane	8.8	48.0		0.1	0.1	0.5	ppbv
124-48-1	Dibromochloromethane	8.6	73.3		0.05	0.1	0.5	ppbv
106-93-4	1,2-Dibromoethane	8.5	65.3		0.1	0.1	0.5	ppbv

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	
Project:	Frost Street Sites / SPGL 100.03	Date Received:	
Client Sample ID:	VL0201ABS01	SDG No.:	H1298
Lab Sample ID:	VL0201ABS01	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
VL026733.D	1		02/01/16 18:19	VL020116

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	8.7	59		0.03	0.03	0.03	ppbv
108-90-7	Chlorobenzene	8.7	40.1		0.1	0.1	0.5	ppbv
100-41-4	Ethyl Benzene	10.1	43.9		0.1	0.1	0.5	ppbv
179601-23-1	m/p-Xylene	18.5	80.4		0.1	0.2	1	ppbv
95-47-6	o-Xylene	8.8	38.2		0.1	0.1	0.5	ppbv
100-42-5	Styrene	10.4	44.3		0.1	0.1	0.5	ppbv
75-25-2	Bromoform	8.1	83.8		0.05	0.1	0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	7.7	52.9		0.03	0.03	0.03	ppbv
95-49-8	2-Chlorotoluene	9.1	47.1		0.1	0.1	0.5	ppbv
108-67-8	1,3,5-Trimethylbenzene	8.7	42.8		0.1	0.1	0.5	ppbv
95-63-6	1,2,4-Trimethylbenzene	8	39.3		0.1	0.1	0.5	ppbv
541-73-1	1,3-Dichlorobenzene	7.6	45.7		0.1	0.1	0.5	ppbv
106-46-7	1,4-Dichlorobenzene	7.7	46.3		0.1	0.1	0.5	ppbv
95-50-1	1,2-Dichlorobenzene	7.5	45.1		0.1	0.1	0.5	ppbv
120-82-1	1,2,4-Trichlorobenzene	8.7	64.6		0.04	0.1	0.5	ppbv
87-68-3	Hexachloro-1,3-Butadiene	7.9	84.3		0.1	0.1	0.5	ppbv
106-99-0	1,3-Butadiene	9	19.9		0.1	0.1	0.5	ppbv
91-20-3	Naphthalene	8.6	45.1		0.04	0.1	0.5	ppbv
622-96-8	4-Ethyltoluene	9.1	44.7		0.1	0.1	0.5	ppbv
110-54-3	Hexane	9.7	34.2		0.04	0.1	0.5	ppbv
107-05-1	Allyl Chloride	9.1	28.5		0.05	0.1	0.5	ppbv
123-91-1	1,4-Dioxane	4.7	16.9		0.1	0.1	0.5	ppbv
80-62-6	Methyl Methacrylate	9.6	39.3		0.1	0.1	0.5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.8			65 - 135		108%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	854553		6.65				
540-36-3	1,4-Difluorobenzene	2699620		8.33				
3114-55-4	Chlorobenzene-d5	3271960		13.75				

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:	VL0202ABS01	SDG No.:	H1298
Lab Sample ID:	VL0202ABS01	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
VL026760.D	1		02/02/16 15:01	VL020216

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS								
75-71-8	Dichlorodifluoromethane	9.8	48.5		0.04	0.1	0.5	ppbv
74-87-3	Chloromethane	8.5	17.6		0.1	0.1	0.5	ppbv
75-01-4	Vinyl Chloride	9.2	23.5		0.03	0.03	0.03	ppbv
74-83-9	Bromomethane	9.8	38.0		0.03	0.1	0.5	ppbv
75-00-3	Chloroethane	9	23.8		0.1	0.1	0.5	ppbv
109-99-9	Tetrahydrofuran	9.5	28.0		0.1	0.1	0.5	ppbv
75-69-4	Trichlorofluoromethane	9.8	55.1		0.04	0.1	0.5	ppbv
76-13-1	1,1,2-Trichlorotrifluoroethane	9.6	73.6		0.04	0.1	0.5	ppbv
76-14-2	Dichlorotetrafluoroethane	9.6	67.1		0.04	0.1	0.5	ppbv
593-60-2	Bromoethene	9.6	42.0		0.03	0.1	0.5	ppbv
75-65-0	tert-Butyl alcohol	11.9	36.1		0.1	0.1	0.5	ppbv
142-82-5	Heptane	8.5	34.8		0.1	0.1	0.5	ppbv
75-35-4	1,1-Dichloroethene	9.6	38.1		0.05	0.1	0.5	ppbv
67-64-1	Acetone	6.3	15.0		0.1	0.1	0.5	ppbv
75-15-0	Carbon Disulfide	9.5	29.6		0.05	0.1	0.5	ppbv
1634-04-4	Methyl tert-Butyl Ether	9.7	35.0		0.05	0.1	0.5	ppbv
75-09-2	Methylene Chloride	9.2	32.0		0.05	0.1	0.5	ppbv
156-60-5	trans-1,2-Dichloroethene	9.2	36.5		0.05	0.1	0.5	ppbv
75-34-3	1,1-Dichloroethane	8.8	35.6		0.04	0.1	0.5	ppbv
110-82-7	Cyclohexane	8.9	30.6		0.1	0.1	0.5	ppbv
78-93-3	2-Butanone	9.1	26.8		0.1	0.1	0.5	ppbv
56-23-5	Carbon Tetrachloride	10.3	64.8		0.03	0.03	0.03	ppbv
156-59-2	cis-1,2-Dichloroethene	9.5	37.7		0.05	0.1	0.5	ppbv
67-66-3	Chloroform	9.2	44.9		0.02	0.1	0.5	ppbv
71-55-6	1,1,1-Trichloroethane	9.8	53.5		0.03	0.03	0.03	ppbv
540-84-1	2,2,4-Trimethylpentane	9.3	43.4		0.04	0.1	0.5	ppbv
71-43-2	Benzene	9.4	30.0		0.04	0.1	0.5	ppbv
107-06-2	1,2-Dichloroethane	10.3	41.7		0.1	0.1	0.5	ppbv
79-01-6	Trichloroethene	9.6	51.6		0.02	0.03	0.03	ppbv
78-87-5	1,2-Dichloropropane	9	41.6		0.1	0.1	0.5	ppbv
75-27-4	Bromodichloromethane	9.8	65.6		0.05	0.1	0.5	ppbv
108-10-1	4-Methyl-2-Pentanone	9.1	37.3		0.05	0.1	0.5	ppbv
108-88-3	Toluene	9.4	35.4		0.05	0.1	0.5	ppbv
10061-02-6	t-1,3-Dichloropropene	10.5	47.7		0.1	0.1	0.5	ppbv
10061-01-5	cis-1,3-Dichloropropene	10.1	45.8		0.1	0.1	0.5	ppbv
79-00-5	1,1,2-Trichloroethane	8.9	48.6		0.1	0.1	0.5	ppbv
124-48-1	Dibromochloromethane	9.5	80.9		0.05	0.1	0.5	ppbv
106-93-4	1,2-Dibromoethane	9	69.2		0.1	0.1	0.5	ppbv

Report of Analysis

Client:	Envirotrac Environmental Services	Date Collected:	
Project:	Frost Street Sites / SPGL 100.03	Date Received:	
Client Sample ID:	VL0202ABS01	SDG No.:	H1298
Lab Sample ID:	VL0202ABS01	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
VL026760.D	1		02/02/16 15:01	VL020216

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOD	LOQ / CRQL	Units
127-18-4	Tetrachloroethene	9.1	61.7		0.03	0.03	0.03	ppbv
108-90-7	Chlorobenzene	8.6	39.6		0.1	0.1	0.5	ppbv
100-41-4	Ethyl Benzene	10	43.4		0.1	0.1	0.5	ppbv
179601-23-1	m/p-Xylene	18.9	82.1		0.1	0.2	1	ppbv
95-47-6	o-Xylene	9.1	39.5		0.1	0.1	0.5	ppbv
100-42-5	Styrene	10.3	43.8		0.1	0.1	0.5	ppbv
75-25-2	Bromoform	9.3	96.2		0.05	0.1	0.5	ppbv
79-34-5	1,1,2,2-Tetrachloroethane	7.8	53.6		0.03	0.03	0.03	ppbv
95-49-8	2-Chlorotoluene	9.6	49.7		0.1	0.1	0.5	ppbv
108-67-8	1,3,5-Trimethylbenzene	9.4	46.2		0.1	0.1	0.5	ppbv
95-63-6	1,2,4-Trimethylbenzene	8.7	42.8		0.1	0.1	0.5	ppbv
541-73-1	1,3-Dichlorobenzene	8.2	49.3		0.1	0.1	0.5	ppbv
106-46-7	1,4-Dichlorobenzene	8.7	52.3		0.1	0.1	0.5	ppbv
95-50-1	1,2-Dichlorobenzene	8.2	49.3		0.1	0.1	0.5	ppbv
120-82-1	1,2,4-Trichlorobenzene	10.2	75.7		0.04	0.1	0.5	ppbv
87-68-3	Hexachloro-1,3-Butadiene	9.7	103		0.1	0.1	0.5	ppbv
106-99-0	1,3-Butadiene	8.8	19.5		0.1	0.1	0.5	ppbv
91-20-3	Naphthalene	9.6	50.3		0.04	0.1	0.5	ppbv
622-96-8	4-Ethyltoluene	9.6	47.2		0.1	0.1	0.5	ppbv
110-54-3	Hexane	9.4	33.1		0.04	0.1	0.5	ppbv
107-05-1	Allyl Chloride	9.6	30.0		0.05	0.1	0.5	ppbv
123-91-1	1,4-Dioxane	10.3	37.1		0.1	0.1	0.5	ppbv
80-62-6	Methyl Methacrylate	9.7	39.7		0.1	0.1	0.5	ppbv
SURROGATES								
460-00-4	1-Bromo-4-Fluorobenzene	10.8			65 - 135		108%	SPK: 10
INTERNAL STANDARDS								
74-97-5	Bromochloromethane	749837		6.63				
540-36-3	1,4-Difluorobenzene	2266410		8.3				
3114-55-4	Chlorobenzene-d5	2831020		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.: H1298 SAS No.: H1298 SDG No.: H1298
 Instrument ID: MSVOA_L Calibration Date(s): 02/01/2016 02/01/2016
 Heated Purge: (Y/N) N Calibration Time(s): 10:36 14:28
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF010 = VL026724.D		RRF002 = VL026725.D		RRF001 = VL026726.D		RRF0.5 = VL026727.D		RRF0.1 = VL026728.D		RRF0.3 = VL026729.D	
COMPOUND		RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF0.3	RRF	% RSD				
Dichlorodifluoromethane		3.194	3.520	3.553	3.575			3.388	6.6				
Chloromethane		0.516	0.596	0.625	0.670			0.577	13.6				
Vinyl Chloride		0.651	0.742	0.771	0.774	0.633	0.700	0.701	8.8				
Bromomethane		0.578	0.623	0.642	0.643			0.608	6.7				
Chloroethane		0.309	0.346	0.353	0.323			0.325	7.6				
Tetrahydrofuran		0.200	0.203	0.202	0.168			0.194	7.7				
Trichlorofluoromethane		3.707	4.085	4.022	4.171			3.907	6.8				
1,1,2-Trichlorotrifluoroethane		2.043	2.323	2.300	2.334			2.204	7.2				
Dichlorotetrafluoroethane		2.260	2.503	2.541	2.539			2.409	6.8				
Bromoethene		0.659	0.734	0.723	0.700			0.695	5.1				
tert-Butyl alcohol		1.480	1.371	1.264	1.172			1.352	9.9				
Heptane		1.415	1.539	1.573	1.524			1.494	4.8				
1,1-Dichloroethene		0.804	0.886	0.900	0.817			0.836	6.6				
Acetone		1.543	3.069	3.114	2.986			2.444	34.3				
Carbon Disulfide		2.257	2.483	2.473	2.328			2.346	5.5				
Methyl tert-Butyl Ether		2.765	2.916	2.812	2.516			2.738	5.5				
Methylene Chloride		0.700	0.797	0.849	0.818			0.770	9.4				
trans-1,2-Dichloroethene		0.796	0.878	0.817	0.815			0.808	6.3				
1,1-Dichloroethane		1.698	1.907	1.903	1.906			1.806	7.7				
Cyclohexane		1.239	1.310	1.334	1.146			1.238	6.8				
2-Butanone		0.426	0.495	0.473	0.443			0.450	7.6				
Carbon Tetrachloride		1.031	1.071	1.065	0.988	0.960	1.109	1.031	5.2				
cis-1,2-Dichloroethene		1.319	1.340	1.331	1.273			1.310	2.2				
Chloroform		2.607	2.819	2.910	2.872			2.747	6.2				
1,1,1-Trichloroethane		3.071	3.271	3.204	3.162	3.039	3.098	3.120	3.1				
2,2,4-Trimethylpentane		1.286	1.398	1.312	1.229			1.296	5				
Benzene		0.855	0.904	0.856	0.773			0.839	6				
1,2-Dichloroethane		0.784	0.797	0.777	0.748			0.775	2.4				
Trichloroethene		0.384	0.441	0.424	0.389	0.344	0.404	0.394	8.3				
1,2-Dichloropropane		0.275	0.302	0.289	0.257			0.276	7				
Bromodichloromethane		0.982	1.008	1.024	0.966			0.987	3				
4-Methyl-2-Pentanone		0.644	0.715	0.664	0.566			0.643	8.5				
Toluene		1.338	1.418	1.300	1.149			1.293	7.7				

* 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.: H1298 SAS No.: H1298 SDG No.: H1298
 Instrument ID: MSVOA_L Calibration Date(s): 02/01/2016 02/01/2016
 Heated Purge: (Y/N) N Calibration Time(s): 10:36 14:28
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:	RRF010 = VL026724.D	RRF002 = VL026725.D	RRF001 = VL026726.D					
	RRF0.5 = VL026727.D	RRF0.1 = VL026728.D	RRF.03 = VL026729.D					
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
t-1,3-Dichloropropene	0.703	0.645	0.547	0.453			0.605	17.2
cis-1,3-Dichloropropene	0.711	0.666	0.603	0.494			0.630	13.5
1,1,2-Trichloroethane	0.451	0.486	0.487	0.476			0.466	5.3
Dibromochloromethane	0.890	0.955	0.904	0.868			0.894	4.4
1,2-Dibromoethane	0.768	0.849	0.826	0.812			0.801	5.1
Tetrachloroethene	0.457	0.527	0.520	0.480	0.414	0.563	0.486	11.1
Chlorobenzene	0.887	1.073	1.132	1.124			1.014	13.2
Ethyl Benzene	1.682	1.880	1.758	1.492			1.692	8.5
m/p-Xylene	1.362	1.593	1.625	1.464			1.474	9
o-Xylene	1.434	1.738	1.796	1.703			1.617	11.1
Styrene	0.638	0.678	0.605	0.443			0.601	15.3
Bromoform	0.764	0.846	0.805	0.731			0.776	6.3
1,1,2,2-Tetrachloroethane	0.838	1.117	1.193	1.184	1.076		1.037	16.3
2-Chlorotoluene	1.628	1.919	1.838	1.550			1.711	9.2
1,3,5-Trimethylbenzene	1.685	2.082	2.074	1.827			1.872	10.5
1,2,4-Trimethylbenzene	1.683	2.278	2.352	2.220			2.032	17.1
1,3-Dichlorobenzene	1.090	1.494	1.579	1.549			1.353	19.2
1,4-Dichlorobenzene	1.160	1.513	1.526	1.507			1.369	14.6
1,2-Dichlorobenzene	1.184	1.576	1.663	1.559			1.428	16.6
1,2,4-Trichlorobenzene	0.772	0.948	0.893	0.775			0.836	9.6
Hexachloro-1,3-Butadiene	0.590	0.801	0.793	0.785			0.712	15.6
1,3-Butadiene	0.601	0.725	0.710	0.681			0.659	10
Naphthalene	1.845	2.349	2.059	1.657			1.947	13.7
4-Ethyltoluene	1.792	2.164	2.070	1.761			1.913	9.9
1-Bromo-4-Fluorobenzene	0.866	0.830	0.852	0.869	0.888	0.872	0.870	3
Hexane	1.137	1.202	1.174	1.063			1.143	4.6
Allyl Chloride	0.987	1.094	1.083	0.992			1.022	6.1
1,4-Dioxane	79.911	82.363	73.946	37.894			70.793	26.3
Methyl Methacrylate	0.345	0.350	0.325	0.274			0.327	9.5

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

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

Method File : VL020116AIR.M

Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Tue Feb 02 15:48:08 2016

Last Update : Fri Feb 12 08:20:06 2016

Response Via : Initial Calibration

Calibration Files

0.03=VL026729.D 0.1 =VL026728.D 0.5 =VL026727.D 1 =VL026726.D 2 =VL026725.D 10 =VL026724.D 15 =VL026730.D

	Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1) I	Bromochloromethane	-----ISTD-----								
2) T	Dichlorodifluo...		3.575	3.553	3.520	3.194	3.099	3.388	6.61	
3)	Chlorodifluoro...		2.375	2.413	2.409	1.428	1.359	1.997	27.60	
4)	Chloromethane		0.670	0.625	0.596	0.516	0.479	0.577	13.65	
5) T	Vinyl Chloride	0.700	0.633	0.774	0.771	0.742	0.651	0.638	0.701	8.81
6) T	Bromomethane		0.643	0.642	0.623	0.578	0.553	0.608	6.67	
7)	Chloroethane		0.323	0.353	0.346	0.309	0.293	0.325	7.63	
8) T	Dichlorotetra...		2.539	2.541	2.503	2.260	2.204	2.409	6.80	
9) T	Propene		0.394	0.377	0.417	0.348	0.338	0.375	8.74	
10) T	Heptane		1.524	1.573	1.539	1.415	1.420	1.494	4.84	
11) T	Trichlorofluor...		4.171	4.022	4.085	3.707	3.551	3.907	6.79	
12) T	1,1,2-Trichlor...		2.334	2.300	2.322	2.043	2.019	2.204	7.18	
13)	Ethanol		0.096	0.094	0.113	0.071	0.071	0.089	20.21	
14) T	Bromoethene		0.700	0.723	0.734	0.659	0.657	0.695	5.10	
15) T	Acetone		2.986	3.114	3.069	1.543	1.510	2.444	34.32	
16) T	1,3-Butadiene		0.681	0.710	0.725	0.601	0.577	0.659	10.00	
17)	tert-Butyl alc...		1.172	1.264	1.371	1.480	1.475	1.352	9.91	
18) T	1,1-Dichloroet...		0.817	0.900	0.886	0.804	0.772	0.836	6.59	
19) T	Isopropyl Alcohol		0.594	0.626	0.652	0.662	0.670	0.641	4.86	
20) T	Methylene Chlo...		0.818	0.849	0.797	0.700	0.687	0.770	9.40	
21) T	Allyl Chloride		0.992	1.083	1.094	0.987	0.955	1.022	6.08	
22) T	trans-1,2-Dich...		0.815	0.817	0.878	0.796	0.735	0.808	6.34	
23) T	Vinyl Acetate		2.377	2.777	2.898	2.542	2.498	2.619	8.14	
24) T	1,1-Dichloroet...		1.906	1.903	1.907	1.698	1.615	1.806	7.73	
25) T	Ethyl Acetate		2.278	2.338	2.484	2.288	2.261	2.330	3.89	
26) T	Hexane		1.063	1.174	1.202	1.137	1.141	1.143	4.56	
27) T	Carbon Disulfide		2.328	2.473	2.483	2.257	2.189	2.346	5.54	
28) T	Methyl tert-Bu...		2.516	2.812	2.916	2.765	2.682	2.738	5.49	
29) T	Chloroform		2.872	2.910	2.819	2.607	2.528	2.747	6.17	
30) T	Cyclohexane		1.146	1.334	1.310	1.239	1.163	1.238	6.82	
31) T	cis-1,2-Dichlo...		1.273	1.331	1.340	1.319	1.288	1.310	2.19	
32) T	1,1,1-Trichlor...	3.098	3.039	3.162	3.204	3.271	3.071	2.994	3.120	3.12
33) I	1,4-Difluorobenzene	-----ISTD-----								
34) T	2-Butanone		0.443	0.473	0.495	0.426	0.412	0.450	7.57	
35) T	Carbon Tetrach...	1.109	0.960	0.988	1.065	1.071	1.031	0.994	1.031	5.19
36) T	Benzene		0.773	0.856	0.904	0.855	0.809	0.839	5.98	
37) T	1,2-Dichloroet...		0.748	0.777	0.797	0.784	0.768	0.775	2.40	

Method	Path : W:\HPCHEM1\MSVOA_L\METHODS\									
Method	File : VL020116AIR.M									
38) T	Trichloroethene	0.404	0.344	0.389	0.424	0.441	0.384	0.371	0.394	8.25
39) T	1,2-Dichloropr...			0.257	0.289	0.302	0.275	0.259	0.276	7.05
40) T	1,4-Dioxane			0.038	0.074	0.082	0.080	0.080	0.071	26.35
41) T	Tetrahydrofuran			0.168	0.202	0.203	0.200	0.198	0.194	7.70
42) T	Bromodichlorom...			0.966	1.024	1.008	0.982	0.954	0.987	2.95
43)	Methyl Methacr...			0.274	0.325	0.350	0.345	0.339	0.327	9.47
44) T	2,2,4-Trimethy...			1.229	1.312	1.398	1.286	1.254	1.296	5.04
45) T	t-1,3-Dichloro...			0.453	0.547	0.645	0.703	0.679	0.605	17.18
46) T	cis-1,3-Dichlo...			0.494	0.603	0.666	0.711	0.674	0.630	13.50
47) T	1,1,2-Trichlor...			0.476	0.487	0.486	0.451	0.431	0.466	5.27
48) T	Dibromochlorom...			0.868	0.904	0.955	0.890	0.854	0.894	4.37
49) T	Bromoform			0.731	0.805	0.846	0.764	0.736	0.776	6.26
50) T	4-Methyl-2-Pen...			0.566	0.664	0.715	0.644	0.627	0.643	8.47
51) T	2-Hexanone			0.490	0.644	0.736	0.650	0.636	0.631	14.04
52) T	Tetrachloroethene	0.563	0.414	0.480	0.520	0.527	0.457	0.438	0.486	11.05
53) T	Toluene			1.149	1.300	1.418	1.338	1.261	1.293	7.68
54) T	1,2-Dibromoethane			0.812	0.826	0.849	0.768	0.751	0.801	5.12
55) I	Chlorobenzene-d5	-----ISTD-----								
56)	1,1,1,2-Tetrac...			0.554	0.566	0.559	0.486	0.480	0.529	7.93
57) T	Chlorobenzene			1.124	1.132	1.073	0.887	0.854	1.014	13.18
58) T	Ethyl Benzene			1.492	1.758	1.880	1.682	1.647	1.692	8.46
59) T	m/p-Xylene			1.464	1.625	1.593	1.362	1.328	1.474	9.03
60) T	o-Xylene			1.703	1.796	1.738	1.434	1.411	1.617	11.14
61) T	Styrene			0.443	0.605	0.678	0.638	0.641	0.601	15.34
62)	Isopropylbenzene			2.142	2.362	2.348	1.991	1.959	2.160	8.83
63) T	1,1,2,2-Tetrac...	0.936	1.076	1.184	1.193	1.117	0.838	0.813	1.023	15.57
64)	n-propylbenzene			0.620	0.686	0.668	0.534	0.528	0.607	12.14
65)	tert-Butylbenzene			2.231	2.539	2.458	1.813	1.743	2.157	16.90
66) T	Benzyl Chloride			0.698	0.870	0.959	0.897	0.873	0.859	11.32
67)	sec-Butylbenzene			3.419	3.713	3.654	2.742	2.628	3.231	15.85
68) S	1-Bromo-4-Fluo...	0.872	0.888	0.869	0.852	0.830	0.866	0.913	0.870	3.03
69)	p-Isopropyltol...			2.598	2.966	3.002	2.266	2.200	2.606	14.45
70)	n-Butylbenzene			2.693	3.144	3.240	2.379	2.253	2.742	16.14
71)	2-Chlorotoluene			1.550	1.838	1.919	1.628	1.621	1.711	9.25
72) T	4-Ethyltoluene			1.761	2.070	2.164	1.792	1.777	1.913	9.91
73) T	1,3,5-Trimethy...			1.827	2.074	2.082	1.685	1.694	1.872	10.46
74) T	1,2,4-Trimethy...			2.220	2.352	2.278	1.683	1.626	2.032	17.13
75) T	1,3-Dichlorobe...			1.549	1.579	1.494	1.090	1.053	1.353	19.16
76) T	1,4-Dichlorobe...			1.507	1.526	1.513	1.160	1.140	1.369	14.61
77) T	1,2-Dichlorobe...			1.559	1.663	1.576	1.184	1.160	1.428	16.64
78) T	Hexachloro-1,3...			0.785	0.793	0.801	0.590	0.592	0.712	15.58
79) T	Naphthalene			1.657	2.059	2.349	1.845	1.827	1.947	13.66
80) T	Naphthalene,2-...			0.292	0.335	0.343	0.276	0.271	0.304	11.02
81) T	1,2,4-Trichlor...			0.775	0.893	0.948	0.772	0.792	0.836	9.55

(#) = Out of Range

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: H1298 SAS No.: H1298 SDG No.: H1298
 Instrument ID: MSVOA_L Calibration Date/Time: 02/02/2016 12:45
 Lab File ID: VL026758.D Init. Calib. Date(s): 02/01/2016 02/01/2016
 Heated Purge: (Y/N) N Init. Calib. Time(s): 10:36 14:28
 GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	3.388	3.279		-3.21	30
Chloromethane	0.577	0.601		4.16	30
Vinyl Chloride	0.701	0.744		6.09	30
Bromomethane	0.608	0.629		3.54	30
Chloroethane	0.325	0.342		5.24	30
Tetrahydrofuran	0.194	0.209		7.83	30
Trichlorofluoromethane	3.907	3.761		-3.76	30
1,1,2-Trichlorotrifluoroethane	2.204	2.210		0.26	30
Dichlorotetrafluoroethane	2.409	2.467		2.41	30
Bromoethene	0.695	0.748		7.6	30
tert-Butyl alcohol	1.352	1.700		25.74	30
Heptane	1.494	1.329		-11.04	30
1,1-Dichloroethene	0.836	0.883		5.67	30
Acetone	2.444	1.755		-28.22	30
Carbon Disulfide	2.346	2.448		4.32	30
Methyl tert-Butyl Ether	2.738	2.889		5.51	30
Methylene Chloride	0.770	0.771		0.06	30
trans-1,2-Dichloroethene	0.808	0.824		1.92	30
1,1-Dichloroethane	1.806	1.746		-3.29	30
Cyclohexane	1.238	1.143		-7.69	30
2-Butanone	0.450	0.464		3.16	30
Carbon Tetrachloride	1.031	1.077		4.45	30
cis-1,2-Dichloroethene	1.310	1.316		0.42	30
Chloroform	2.747	2.551		-7.12	30
1,1,1-Trichloroethane	3.120	3.055		-2.1	30
2,2,4-Trimethylpentane	1.296	1.298		0.12	30
Benzene	0.839	0.856		1.99	30
1,2-Dichloroethane	0.775	0.835		7.76	30
Trichloroethene	0.394	0.407		3.25	30
1,2-Dichloropropane	0.276	0.273		-1.27	30
Bromodichloromethane	0.987	1.010		2.37	30
4-Methyl-2-Pentanone	0.643	0.628		-2.33	30
Toluene	1.293	1.265		-2.22	30
t-1,3-Dichloropropene	0.605	0.683		12.89	30
cis-1,3-Dichloropropene	0.630	0.685		8.83	30
1,1,2-Trichloroethane	0.466	0.433		-7.21	30
Dibromochloromethane	0.894	0.855		-4.36	30
1,2-Dibromoethane	0.801	0.739		-7.69	30
Tetrachloroethene	0.486	0.451		-7.02	30

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

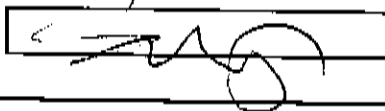
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: ENVI27
 Lab Code: CHEM Case No.: H1298 SAS No.: H1298 SDG No.: H1298
 Instrument ID: MSVOA_L Calibration Date/Time: 02/02/2016 12:45
 Lab File ID: VL026758.D Init. Calib. Date(s): 02/01/2016 02/01/2016
 Heated Purge: (Y/N) N Init. Calib. Time(s): 10:36 14:28
 GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Chlorobenzene	1.014	0.944		-6.9	30
Ethyl Benzene	1.692	1.816		7.34	30
m/p-Xylene	1.474	1.474		-0.01	30
o-Xylene	1.617	1.544		-4.47	30
Styrene	0.601	0.658		9.54	30
Bromoform	0.776	0.731		-5.9	30
1,1,2,2-Tetrachloroethane	1.037	0.855		-17.6	30
2-Chlorotoluene	1.711	1.773		3.61	30
1,3,5-Trimethylbenzene	1.872	1.867		-0.27	30
1,2,4-Trimethylbenzene	2.032	1.893		-6.82	30
1,3-Dichlorobenzene	1.353	1.192		-11.89	30
1,4-Dichlorobenzene	1.369	1.266		-7.58	30
1,2-Dichlorobenzene	1.428	1.302		-8.85	30
1,2,4-Trichlorobenzene	0.836	1.072		28.27	30
Hexachloro-1,3-Butadiene	0.712	0.811		13.9	30
1,3-Butadiene	0.659	0.683		3.64	30
Naphthalene	1.947	2.517		29.23	30
4-Ethyltoluene	1.913	1.941		1.49	30
1-Bromo-4-Fluorobenzene	0.870	0.943		8.32	30
Hexane	1.143	1.156		1.09	30
Allyl Chloride	1.022	1.116		9.17	30
1,4-Dioxane	70.793	52.476		-25.87	30
Methyl Methacrylate	0.327	0.335		2.54	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 : B1601027										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																													
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	TO-15					Indoor/Ambient Air					Soil Gas																								
INF	1/28/16	0710						-30	-9.2	NR	10674	1.4 L	NA	VL020305.D	X																																		
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15)																																							
Start																																																	
Stop																																																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditio Please follow the instructions on the back of this CO																																							
Start																																																	
Stop																																																	
Special Instructions/QC Requirements & Comments :																																																	
Suspected Contamination: High Medium Low PID Readings:																																																	
Sampling site (State):																																																	
Quick Connector required : <i>yes</i>																																																	
Canisters Shipped by: <i>LC</i>					Date/Time: <i>1/13/16</i>					Canisters Received by: <i>C. Pena</i>					Date/Time: <i>1-29-16 11:11</i>					B1601027 - 1																													
Samples Relinquished by: <i>[Signature]</i>					Date/Time: <i>1/28/16 0500</i>					Received by:					Date/Time:																																		
Relinquished by:					Date/Time:					Received by:					Date/Time:																																		

Client Contact Information						Bottle Order ID : B1601027				Courier :				_____ of _____ COCs							
Client ID : ENVI27						Project ID : Frost Street Sites / SPGL 100.03				Sampler Name(s) :				Analysis				Matrix			
Customer Name : Envirotrac Environmental Services Address : 5 Old Dock Road						Project Manager JAMES WILKINSON				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified											
						Phone Number : 631-924-3001															
						Fax Number : 6319245001															
						Site Details:															
City : Yaphank																					
State : NY						Analysis Turnaround Time															
Zip Code : 11980						Standard : 15 business days OR				Data Package Type :											
Country :						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	
EFF	1/28/16	0705						-30	-6.7	NR	10738	1.4 L	NA	VL025410.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 : <i>yes</i>																					
Canisters Shipped by: <i>[Signature]</i>				Date/Time: <i>1/13/16</i>				Canisters Received by: <i>C. Pena</i>				Date/Time: <i>1-29-16 11:11</i>									
Samples Relinquished by: <i>[Signature]</i>				Date/Time: <i>1/28/16 09:00</i>				Received by:				Date/Time:									
Relinquished by:				Date/Time:				Received by:				Date/Time:									
B1601027 - 2																					

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

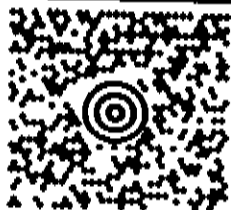
5 LBS

1 OF 1

SHIP TO:

ATTN: SAMPLE MANAGEMENT
908-789-8900
CHEMTECH
284 SHEFFIELD STREET
MOUNTAINSIDE NJ 07092-2319

C. Lora
1-29-16
11:11

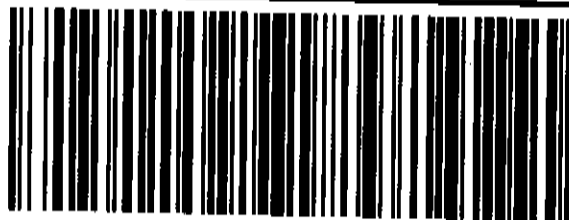


NJ 078 9-61



UPS GROUND

TRACKING #: 1Z 12X 822 03 9533 8944



BILLING: P/P

Reference#1: 01.990969.00/72.0000

53 of 55

US 18.0.23. WNTNV50 72.0A 01/2016



Laboratory Certification

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

