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ENVIRONMENTAL  
ASSESSMENT &  
REMEDIATIONS

March 9, 2023

Jolene Lozewski, P.G.  
New York State Department of Environmental Conservation  
625 Broadway, 12<sup>th</sup> floor  
Albany, NY 12233

**RE: 123 Post Avenue, NYSDEC Site No. 130088 - Monthly O&M Summary**

Dear Ms. Lozewski:

This document represents the monthly operation & maintenance (O&M) summary for the soil vapor extraction (SVE) system currently operating at the above referenced site. The report summarizes the maintenance and monitoring activities conducted in January through February 2023.

**Routine Operation & Maintenance**

Routine O&M activities were conducted on 1/18/23 & 2/14/23. O&M activities include the collection of operating data such as system vacuum/pressures and air flow rates. During the routine site visits, mechanical components are checked and serviced accordingly. Concentrations of volatile organic compounds (VOCs) in the system's airstream are monitored at key locations using a photo-ionization detector (PID). Prior to use, the PID is calibrated using a 100 ppm isobutylene standard and ambient air. System effluent air samples are collected on a quarterly basis.

**O&M Summary**

**1/18/23** – EAR was onsite to install the replacement motor starter and restart the system. Following motor starter installation and restart, the system was allowed to operate approx.. 45 minutes prior to conducting routine O&M. The system was operating upon departure from the site. A data sheet for the replacement starter & associated enclosure is provided as Appendix A.

**2/14/23** – EAR was onsite to conduct routine O&M. An air sample was collected from the SVE effluent air stream. The system was operating upon arrival to and departure from the site.

Total system uptime for January-February 2023 is 70%.



System monitoring data for the time period covered in this report is summarized in Table 1.

### **System Air Sampling**

On 2/14/23, an air sample was collected from the system's effluent airstream for laboratory analysis. The sample was collected using a 1-liter passivated Summa canister with regulator set to draw for 30 minutes and submitted to Pace Analytical/Contest (East Longmeadow, MA) for analysis of volatile organic compounds via EPA Method TO-15.

Vapor-phase emissions for select parameters are summarized in Table 2. The laboratory analytical report is provided as Appendix B.

Should you have any questions regarding the activities or data detailed in this report, please feel free to contact me at 631.241.8741.

Sincerely,

A handwritten signature in black ink, appearing to read 'I. Hofmann', written over a light gray rectangular background.

**Ian Hofmann**  
Project Manager

Cc:

J. Lawrence (EAR)

J. Nealon (NYSDOH)



## **TABLES**

Table 1: System Monitoring Log

Table 2: Vapor Phase Emissions



Table 2

123 Post Avenue  
Westbury, NY  
NYSDEC Site # 130088



**Vapor Phase Emissions - Select Contaminants**  
**SVE-Effluent**  
**EPA Method TO-15**  
**ConTest/Pace Labs (2/2023 - )**

Date	Flow Rate (CFM)	Tetrachloroethene Emissions Rate				Trichloroethene Emissions Rate				1,2-Dichloroethene Emissions Rate				1,2-Dichloroethane Emissions Rate				Total VOC Emissions Rate			
		PCE (ug/M3)	(lbs/hr)	(lbs/day)	Cumulative (lbs)	TCE (ug/M3)	(lbs/hr)	(lbs/day)	Cumulative (lbs)	1,2-DCE (ug/M3)	(lbs/hr)	(lbs/day)	Cumulative (lbs)	1,2-DCA (ug/M3)	(lbs/hr)	(lbs/day)	Cumulative (lbs)	Total VOC (ug/M3)	(lbs/hr)	(lbs/day)	Cumulative (lbs)
02/14/23	184.0	2	0.00000	0.000	0.000	<1.1	0.00000	0.000	0.000	<1.58	0.0000	0.000	0.000	<0.81	0.00000	0.000	0.000	266	0.000	0.004	0.000
<b>AVERAGE:</b>	<b>184.0</b>		<b>0.000</b>	<b>0.000</b>	<b>0.000</b>		<b>0.000</b>	<b>0.000</b>	<b>0.000</b>		<b>0.000</b>	<b>0.000</b>	<b>0.000</b>		<b>0.000</b>	<b>0.000</b>	<b>0.000</b>			<b>0.004</b>	<b>0.000</b>

Notes:  
 lbs/hr = (CFM x 60) x (concentration x 0.000001 x 0.02832 x 0.002205)  
 •1,2-DCE value = reported c-1,2-DCE concentration + t-1,2-DCE concentration



## Appendix A: Motor Starter Data Sheet



Figure similar

Non-reversing motor starter, Size 1, Three phase full voltage, Solid-state overload relay, OLR amp range 10-40A, Non-combination type, Encl. type 4X 304 S. Steel, Water/dust tight noncorrosive, Standard width enclosure

product brand name	Class 14
design of the product	Full-voltage non-reversing motor starter
special product feature	ESP200 overload relay; Dual voltage coil

### General technical data

weight [lb]	11 lb
Height x Width x Depth [in]	13 × 8 × 5 in
touch protection against electrical shock	(NA for enclosed products)
installation altitude [ft] at height above sea level maximum	6560 ft
ambient temperature [°F]	
• during storage	-22 ... +149 °F
• during operation	-4 ... +104 °F
ambient temperature	
• during storage	-30 ... +65 °C
• during operation	-20 ... +40 °C
country of origin	USA

### Horsepower ratings

yielded mechanical performance [hp] for 3-phase AC motor	
• at 200/208 V rated value	7.5 hp
• at 220/230 V rated value	7.5 hp
• at 460/480 V rated value	0 hp
• at 575/600 V rated value	0 hp

### Contactors

size of contactor	NEMA controller size 1
number of NO contacts for main contacts	3
operating voltage for main current circuit at AC at 60 Hz maximum	600 V
operational current at AC at 600 V rated value	27 A
mechanical service life (operating cycles) of the main contacts typical	10000000

### Auxiliary contact

number of NC contacts at contactor for auxiliary contacts	0
number of NO contacts at contactor for auxiliary contacts	1
number of total auxiliary contacts maximum	8
contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 5A@600VDC (P600)

### Coil

type of voltage of the control supply voltage	AC
control supply voltage	
• at AC at 60 Hz rated value	110 ... 240 V
holding power at AC minimum	8.6 W

apparent pick-up power of magnet coil at AC	218 VA
apparent holding power of magnet coil at AC	25 VA
operating range factor control supply voltage rated value of magnet coil	0.85 ... 1.1
percentual drop-out voltage of magnet coil related to the input voltage	50 %
ON-delay time	19 ... 29 ms
OFF-delay time	10 ... 24 ms

### Overload relay

product function	
<ul style="list-style-type: none"> <li>• overload protection</li> <li>• phase failure detection</li> <li>• asymmetry detection</li> <li>• ground fault detection</li> <li>• test function</li> <li>• external reset</li> </ul>	Yes Yes Yes Yes Yes Yes
reset function	Manual, automatic and remote
trip class	CLASS 5 / 10 / 20 (factory set) / 30
adjustable current response value current of the current-dependent overload release	10 ... 40 A
tripping time at phase-loss maximum	3 s
relative repeat accuracy	1 %
product feature protective coating on printed-circuit board	Yes
number of NC contacts of auxiliary contacts of overload relay	1
number of NO contacts of auxiliary contacts of overload relay	1
operational current of auxiliary contacts of overload relay	
<ul style="list-style-type: none"> <li>• at AC at 600 V</li> <li>• at DC at 250 V</li> </ul>	5 A 1 A
contact rating of auxiliary contacts of overload relay according to UL	5A@600VAC (B600), 1A@250VDC (R300)
insulation voltage (Ui)	
<ul style="list-style-type: none"> <li>• with single-phase operation at AC rated value</li> <li>• with multi-phase operation at AC rated value</li> </ul>	600 V 300 V

### Enclosure

degree of protection NEMA rating	4X, 304 stainless steel
design of the housing	Dust-tight, watertight & corrosion resistant

### Mounting/wiring

mounting position	Vertical
fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	Screw-type terminals
tightening torque [lbf-in] for supply	35 ... 35 lbf-in
type of connectable conductor cross-sections at line-side at AWG cables single or multi-stranded	1x(14 - 2 AWG)
temperature of the conductor for supply maximum permissible	75 °C
material of the conductor for supply	AL or CU
type of electrical connection for load-side outgoing feeder	Screw-type terminals
tightening torque [lbf-in] for load-side outgoing feeder	35 ... 35 lbf-in
type of connectable conductor cross-sections at AWG cables for load-side outgoing feeder single or multi-stranded	1x(14 - 2 AWG)
temperature of the conductor for load-side outgoing feeder maximum permissible	75 °C
material of the conductor for load-side outgoing feeder	AL or CU
type of electrical connection of magnet coil	screw-type terminals
tightening torque [lbf-in] at magnet coil	5 ... 12 lbf-in
type of connectable conductor cross-sections of magnet coil at AWG cables single or multi-stranded	2 x (16 - 12 AWG)
temperature of the conductor at magnet coil maximum permissible	75 °C
material of the conductor at magnet coil	CU
type of electrical connection for auxiliary contacts	screw-type terminals
tightening torque [lbf-in] at contactor for auxiliary contacts	10 ... 15 lbf-in
type of connectable conductor cross-sections at contactor	1 x (12 AWG), 2 x (16 - 14 AWG), 2 x (18 - 16 AWG)



at AWG cables for auxiliary contacts single or multi-stranded  
 temperature of the conductor at contactor for auxiliary contacts maximum permissible  
 material of the conductor at contactor for auxiliary contacts  
 type of electrical connection at overload relay for auxiliary contacts  
 tightening torque [lbf·in] at overload relay for auxiliary contacts  
 type of connectable conductor cross-sections at overload relay at AWG cables for auxiliary contacts single or multi-stranded  
 temperature of the conductor at overload relay for auxiliary contacts maximum permissible  
 material of the conductor at overload relay for auxiliary contacts

75 °C  
 CU  
 screw-type terminals  
 7 ... 10 lbf·in  
 2 x (20 - 14 AWG)  
 75 °C  
 CU

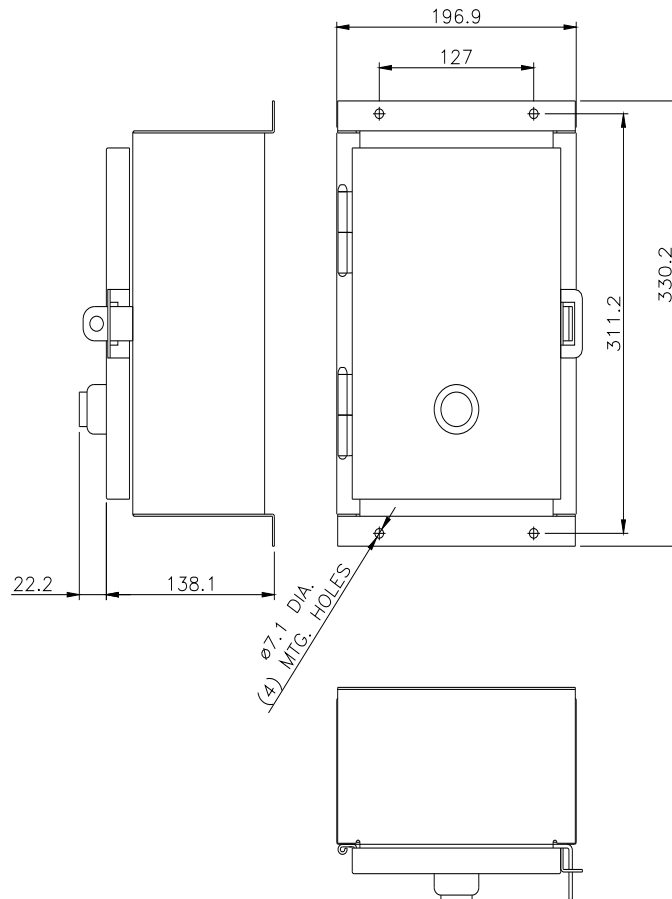
**Short-circuit current rating**

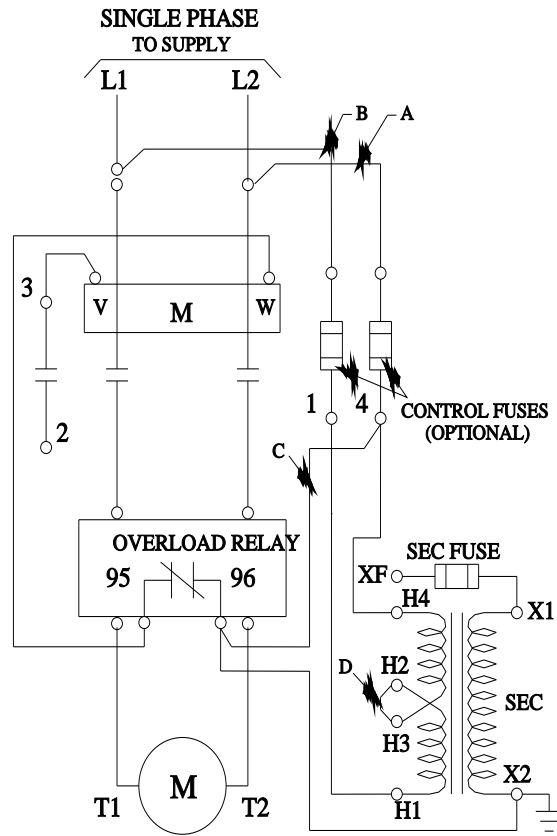
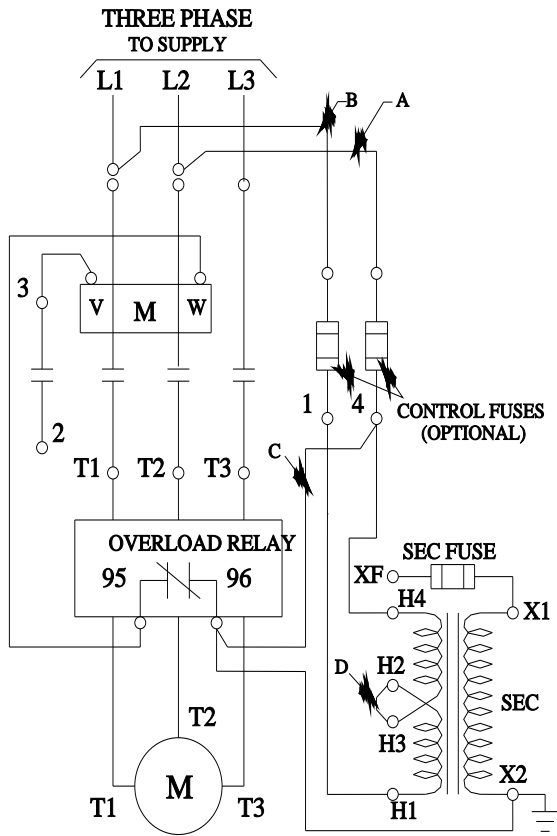
design of the fuse link for short-circuit protection of the main circuit required  
 design of the short-circuit trip  
 maximum short-circuit current breaking capacity (I<sub>cu</sub>)  
 • at 240 V  
 • at 480 V  
 • at 600 V  
 certificate of suitability

10kA@600V (Class H or K); 100kA@600V (Class R or J)  
 Thermal magnetic circuit breaker  
 14 kA  
 10 kA  
 10 kA  
 NEMA ICS 2; UL 508; CSA 22.2, No.14

**Further information**

- Industrial Controls - Product Overview (Catalogs, Brochures,...)**  
[www.usa.siemens.com/iccatalog](http://www.usa.siemens.com/iccatalog)
- Industry Mall (Online ordering system)**  
<https://mall.industry.siemens.com/mall/en/us/Catalog/product?mfb=US2:14DUE32WA>
- Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**  
<https://support.industry.siemens.com/cs/US/en/ps/US2:14DUE32WA>
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)**  
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mfb=US2:14DUE32WA&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=US2:14DUE32WA&lang=en)
- Certificates/approvals**  
<https://support.industry.siemens.com/cs/US/en/ps/US2:14DUE32WA/certificate>





last modified:

11/29/2021



## **Appendix B: Laboratory Analytical Report**

February 23, 2023

Ian Hofmann  
NYDEC\_Environmental Assessment & Remediation  
225 Atlantic Avenue  
Patchogue, NY 11772

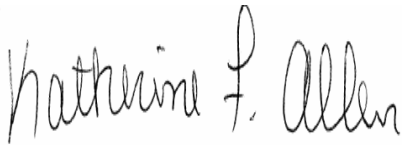
Project Location: 123 Post Avenue  
Client Job Number:  
Project Number: 130088  
Laboratory Work Order Number: 23B2039

Enclosed are results of analyses for samples as received by the laboratory on February 16, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle K. Stuckey  
Project Manager



QA Officer  
Katherine Allen



Laboratory Manager  
Daren Damboragian

NYDEC\_Environmental Assessment & Remediation  
225 Atlantic Avenue  
Patchogue, NY 11772  
ATTN: Ian Hofmann

REPORT DATE: 2/23/2023

PURCHASE ORDER NUMBER: 146946

PROJECT NUMBER: 130088

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**ANALYTICAL SUMMARY**

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WORK ORDER NUMBER: 23B2039

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: 123 Post Avenue

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SVE EFF	23B2039-01	Sub Slab		EPA TO-15	

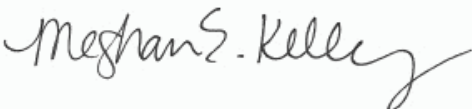
**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For sample 23B2039-01, client's final pressure and the labs receipt pressure do not agree. Client requested sample still be analyzed.

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley  
Reporting Specialist

**ANALYTICAL RESULTS**

 Project Location: 123 Post Avenue  
 Date Received: 2/16/2023  
**Field Sample #: SVE EFF**  
**Sample ID: 23B2039-01**  
 Sample Matrix: Sub Slab  
 Sampled: 2/14/2023 09:45

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 2531  
 Canister Size: 1 liter  
 Flow Controller ID: 3035  
 Sample Type: 30 min

**Work Order: 23B2039**  
 Initial Vacuum(in Hg): -28.5  
 Final Vacuum(in Hg): 0  
 Receipt Vacuum(in Hg): -22.5  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling: >20%

**EPA TO-15**

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Acetone	12	8.0	4.8		28	19	11	4	2/21/23	2:07	SFM
Benzene	0.48	0.20	0.15		1.5	0.64	0.48	4	2/21/23	2:07	SFM
Benzyl chloride	ND	0.20	0.18		ND	1.0	0.91	4	2/21/23	2:07	SFM
Bromodichloromethane	ND	0.20	0.14		ND	1.3	0.94	4	2/21/23	2:07	SFM
Bromoform	ND	0.20	0.14		ND	2.1	1.4	4	2/21/23	2:07	SFM
Bromomethane	ND	0.20	0.13		ND	0.78	0.52	4	2/21/23	2:07	SFM
1,3-Butadiene	ND	0.20	0.17		ND	0.44	0.37	4	2/21/23	2:07	SFM
2-Butanone (MEK)	3.5	8.0	2.1	J	10	24	6.3	4	2/21/23	2:07	SFM
Carbon Disulfide	ND	2.0	0.18		ND	6.2	0.58	4	2/21/23	2:07	SFM
Carbon Tetrachloride	ND	0.20	0.16		ND	1.3	1.0	4	2/21/23	2:07	SFM
Chlorobenzene	ND	0.20	0.13		ND	0.92	0.61	4	2/21/23	2:07	SFM
Chloroethane	ND	0.20	0.18		ND	0.53	0.47	4	2/21/23	2:07	SFM
Chloroform	ND	0.20	0.19		ND	0.98	0.93	4	2/21/23	2:07	SFM
Chloromethane	0.53	0.40	0.16		1.1	0.83	0.33	4	2/21/23	2:07	SFM
Cyclohexane	0.18	0.20	0.12	J	0.61	0.69	0.42	4	2/21/23	2:07	SFM
Dibromochloromethane	ND	0.20	0.13		ND	1.7	1.1	4	2/21/23	2:07	SFM
1,2-Dibromoethane (EDB)	ND	0.20	0.12		ND	1.5	0.93	4	2/21/23	2:07	SFM
1,2-Dichlorobenzene	ND	0.20	0.11		ND	1.2	0.69	4	2/21/23	2:07	SFM
1,3-Dichlorobenzene	ND	0.20	0.11		ND	1.2	0.67	4	2/21/23	2:07	SFM
1,4-Dichlorobenzene	ND	0.20	0.13		ND	1.2	0.79	4	2/21/23	2:07	SFM
Dichlorodifluoromethane (Freon 12)	0.26	0.20	0.20		1.3	0.99	0.97	4	2/21/23	2:07	SFM
1,1-Dichloroethane	ND	0.20	0.17		ND	0.81	0.71	4	2/21/23	2:07	SFM
1,2-Dichloroethane	ND	0.20	0.18		ND	0.81	0.73	4	2/21/23	2:07	SFM
1,1-Dichloroethylene	ND	0.20	0.15		ND	0.79	0.60	4	2/21/23	2:07	SFM
cis-1,2-Dichloroethylene	ND	0.20	0.15		ND	0.79	0.58	4	2/21/23	2:07	SFM
trans-1,2-Dichloroethylene	ND	0.20	0.16		ND	0.79	0.62	4	2/21/23	2:07	SFM
1,2-Dichloropropane	ND	0.20	0.11		ND	0.92	0.50	4	2/21/23	2:07	SFM
cis-1,3-Dichloropropene	ND	0.20	0.10		ND	0.91	0.47	4	2/21/23	2:07	SFM
trans-1,3-Dichloropropene	ND	0.20	0.10		ND	0.91	0.46	4	2/21/23	2:07	SFM
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.20	0.20		ND	1.4	1.4	4	2/21/23	2:07	SFM
1,4-Dioxane	ND	2.0	0.17		ND	7.2	0.60	4	2/21/23	2:07	SFM
Ethanol	46	8.0	3.5		86	15	6.6	4	2/21/23	2:07	SFM
Ethyl Acetate	15	2.0	1.0		55	7.2	3.6	4	2/21/23	2:07	SFM
Ethylbenzene	0.32	0.20	0.12		1.4	0.87	0.51	4	2/21/23	2:07	SFM
4-Ethyltoluene	ND	0.20	0.12		ND	0.98	0.60	4	2/21/23	2:07	SFM
Heptane	0.18	0.20	0.13	J	0.74	0.82	0.52	4	2/21/23	2:07	SFM
Hexachlorobutadiene	ND	0.20	0.16		ND	2.1	1.8	4	2/21/23	2:07	SFM
Hexane	3.1	8.0	1.0	J	11	28	3.7	4	2/21/23	2:07	SFM
2-Hexanone (MBK)	ND	0.20	0.10		ND	0.82	0.41	4	2/21/23	2:07	SFM
Isopropanol	12	8.0	1.4		30	20	3.4	4	2/21/23	2:07	SFM
Methyl tert-Butyl Ether (MTBE)	ND	0.20	0.15		ND	0.72	0.56	4	2/21/23	2:07	SFM
Methylene Chloride	ND	2.0	0.93		ND	6.9	3.2	4	2/21/23	2:07	SFM
4-Methyl-2-pentanone (MIBK)	0.78	0.20	0.11		3.2	0.82	0.44	4	2/21/23	2:07	SFM
Naphthalene	ND	0.20	0.15		ND	1.0	0.79	4	2/21/23	2:07	SFM
Propene	ND	8.0	1.8		ND	14	3.0	4	2/21/23	2:07	SFM
Styrene	ND	0.20	0.11		ND	0.85	0.45	4	2/21/23	2:07	SFM
1,1,2,2-Tetrachloroethane	ND	0.20	0.11		ND	1.4	0.74	4	2/21/23	2:07	SFM

**ANALYTICAL RESULTS**

 Project Location: 123 Post Avenue  
 Date Received: 2/16/2023  
**Field Sample #: SVE EFF**  
**Sample ID: 23B2039-01**  
 Sample Matrix: Sub Slab  
 Sampled: 2/14/2023 09:45

 Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 2531  
 Canister Size: 1 liter  
 Flow Controller ID: 3035  
 Sample Type: 30 min

**Work Order: 23B2039**  
 Initial Vacuum(in Hg): -28.5  
 Final Vacuum(in Hg): 0  
 Receipt Vacuum(in Hg): -22.5  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling: >20%

**EPA TO-15**

Analyte	ppbv			Flag/Qual	ug/m3			Dilution	Date/Time		Analyst
	Results	RL	MDL		Results	RL	MDL		Analyzed		
Tetrachloroethylene	0.23	0.20	0.15		1.6	1.4	1.0	4	2/21/23	2:07	SFM
Tetrahydrofuran	0.88	2.0	0.33	J	2.6	5.9	0.97	4	2/21/23	2:07	SFM
Toluene	5.5	0.20	0.11		21	0.75	0.43	4	2/21/23	2:07	SFM
1,2,4-Trichlorobenzene	ND	0.20	0.19		ND	1.5	1.4	4	2/21/23	2:07	SFM
1,1,1-Trichloroethane	ND	0.20	0.16		ND	1.1	0.86	4	2/21/23	2:07	SFM
1,1,2-Trichloroethane	ND	0.20	0.14		ND	1.1	0.77	4	2/21/23	2:07	SFM
Trichloroethylene	ND	0.20	0.13		ND	1.1	0.72	4	2/21/23	2:07	SFM
Trichlorofluoromethane (Freon 11)	0.32	0.80	0.24	J	1.8	4.5	1.3	4	2/21/23	2:07	SFM
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.80	0.22		ND	6.1	1.7	4	2/21/23	2:07	SFM
1,2,4-Trimethylbenzene	0.37	0.20	0.088		1.8	0.98	0.43	4	2/21/23	2:07	SFM
1,3,5-Trimethylbenzene	0.12	0.20	0.11	J	0.57	0.98	0.52	4	2/21/23	2:07	SFM
Vinyl Acetate	ND	4.0	1.1		ND	14	3.8	4	2/21/23	2:07	SFM
Vinyl Chloride	ND	0.20	0.18		ND	0.51	0.46	4	2/21/23	2:07	SFM
m&p-Xylene	1.1	0.40	0.22		5.0	1.7	0.97	4	2/21/23	2:07	SFM
o-Xylene	0.43	0.20	0.10		1.9	0.87	0.44	4	2/21/23	2:07	SFM

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	100	70-130	2/21/23 2:07



**Sample Extraction Data****Prep Method: TO-15 Prep-EPA TO-15**

<b>Lab Number [Field ID]</b>	<b>Batch</b>	<b>Pressure Dilution</b>	<b>Pre Dilution</b>	<b>Pre-Dil Initial mL</b>	<b>Pre-Dil Final mL</b>	<b>Default Injection mL</b>	<b>Actual Injection mL</b>	<b>Date</b>
23B2039-01 [SVE EFF]	B332364	4	1	N/A	1000	400	400	02/20/23

**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	

**Batch B332364 - TO-15 Prep**
**Blank (B332364-BLK1)**

Prepared &amp; Analyzed: 02/20/23

Acetone	ND	1.4
Benzene	ND	0.035
Benzyl chloride	ND	0.035
Bromodichloromethane	ND	0.035
Bromoform	ND	0.035
Bromomethane	ND	0.035
1,3-Butadiene	ND	0.035
2-Butanone (MEK)	ND	1.4
Carbon Disulfide	ND	0.35
Carbon Tetrachloride	ND	0.035
Chlorobenzene	ND	0.035
Chloroethane	ND	0.035
Chloroform	ND	0.035
Chloromethane	ND	0.070
Cyclohexane	ND	0.035
Dibromochloromethane	ND	0.035
1,2-Dibromoethane (EDB)	ND	0.035
1,2-Dichlorobenzene	ND	0.035
1,3-Dichlorobenzene	ND	0.035
1,4-Dichlorobenzene	ND	0.035
Dichlorodifluoromethane (Freon 12)	ND	0.035
1,1-Dichloroethane	ND	0.035
1,2-Dichloroethane	ND	0.035
1,1-Dichloroethylene	ND	0.035
cis-1,2-Dichloroethylene	ND	0.035
trans-1,2-Dichloroethylene	ND	0.035
1,2-Dichloropropane	ND	0.035
cis-1,3-Dichloropropene	ND	0.035
trans-1,3-Dichloropropene	ND	0.035
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.035
1,4-Dioxane	ND	0.35
Ethanol	ND	1.4
Ethyl Acetate	ND	0.35
Ethylbenzene	ND	0.035
4-Ethyltoluene	ND	0.035
Heptane	ND	0.035
Hexachlorobutadiene	ND	0.035
Hexane	ND	1.4
2-Hexanone (MBK)	ND	0.035
Isopropanol	0.51	1.4
Methyl tert-Butyl Ether (MTBE)	ND	0.035
Methylene Chloride	ND	0.35
4-Methyl-2-pentanone (MIBK)	ND	0.035
Naphthalene	ND	0.035
Propene	ND	1.4
Styrene	ND	0.035

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**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit		

**Batch B332364 - TO-15 Prep**
**Blank (B332364-BLK1)**

Prepared &amp; Analyzed: 02/20/23

1,1,2,2-Tetrachloroethane	ND	0.035
Tetrachloroethylene	ND	0.035
Tetrahydrofuran	ND	0.35
Toluene	ND	0.035
1,2,4-Trichlorobenzene	ND	0.035
1,1,1-Trichloroethane	ND	0.035
1,1,2-Trichloroethane	ND	0.035
Trichloroethylene	ND	0.035
Trichlorofluoromethane (Freon 11)	ND	0.14
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14
1,2,4-Trimethylbenzene	ND	0.035
1,3,5-Trimethylbenzene	ND	0.035
Vinyl Acetate	ND	0.70
Vinyl Chloride	ND	0.035
m&p-Xylene	ND	0.070
o-Xylene	ND	0.035

<i>Surrogate: 4-Bromofluorobenzene (1)</i>	<i>8.03</i>	<i>8.00</i>	<i>100</i>	<i>70-130</i>
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**LCS (B332364-BS1)**

Prepared &amp; Analyzed: 02/20/23

Acetone	5.48	5.00	110	70-130
Benzene	4.96	5.00	99.2	70-130
Benzyl chloride	5.43	5.00	109	70-130
Bromodichloromethane	4.92	5.00	98.5	70-130
Bromoform	4.83	5.00	96.6	70-130
Bromomethane	5.45	5.00	109	70-130
1,3-Butadiene	5.20	5.00	104	70-130
2-Butanone (MEK)	5.00	5.00	99.9	70-130
Carbon Disulfide	5.33	5.00	107	70-130
Carbon Tetrachloride	5.02	5.00	100	70-130
Chlorobenzene	4.80	5.00	95.9	70-130
Chloroethane	5.63	5.00	113	70-130
Chloroform	5.49	5.00	110	70-130
Chloromethane	4.77	5.00	95.5	70-130
Cyclohexane	5.06	5.00	101	70-130
Dibromochloromethane	5.06	5.00	101	70-130
1,2-Dibromoethane (EDB)	4.92	5.00	98.4	70-130
1,2-Dichlorobenzene	5.04	5.00	101	70-130
1,3-Dichlorobenzene	5.10	5.00	102	70-130
1,4-Dichlorobenzene	5.15	5.00	103	70-130
Dichlorodifluoromethane (Freon 12)	5.74	5.00	115	70-130
1,1-Dichloroethane	5.36	5.00	107	70-130
1,2-Dichloroethane	5.75	5.00	115	70-130
1,1-Dichloroethylene	5.69	5.00	114	70-130
cis-1,2-Dichloroethylene	5.39	5.00	108	70-130
trans-1,2-Dichloroethylene	5.40	5.00	108	70-130
1,2-Dichloropropane	4.80	5.00	95.9	70-130

**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

Analyte	ppbv		ug/m3		Spike Level	Source	%REC	%REC	RPD	RPD	Flag/Qual
	Results	RL	Results	RL	ppbv	Result	Limits	RPD	Limit		
<b>Batch B332364 - TO-15 Prep</b>											
<b>LCS (B332364-BS1)</b>						Prepared & Analyzed: 02/20/23					
cis-1,3-Dichloropropene	5.00				5.00		99.9	70-130			
trans-1,3-Dichloropropene	5.18				5.00		104	70-130			
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.16				5.00		103	70-130			
1,4-Dioxane	4.90				5.00		98.0	70-130			
Ethanol	4.59				5.00		91.8	70-130			
Ethyl Acetate	5.30				5.00		106	70-130			
Ethylbenzene	5.09				5.00		102	70-130			
4-Ethyltoluene	5.44				5.00		109	70-130			
Heptane	4.83				5.00		96.7	70-130			
Hexachlorobutadiene	4.04				5.00		80.8	70-130			
Hexane	5.55				5.00		111	70-130			
2-Hexanone (MBK)	4.65				5.00		93.0	70-130			
Isopropanol	4.64				5.00		92.8	70-130			
Methyl tert-Butyl Ether (MTBE)	5.55				5.00		111	70-130			
Methylene Chloride	4.48				5.00		89.6	70-130			
4-Methyl-2-pentanone (MIBK)	4.59				5.00		91.8	70-130			
Naphthalene	5.27				5.00		105	70-130			
Propene	4.58				5.00		91.6	70-130			
Styrene	5.35				5.00		107	70-130			
1,1,2,2-Tetrachloroethane	4.71				5.00		94.3	70-130			
Tetrachloroethylene	4.77				5.00		95.3	70-130			
Tetrahydrofuran	5.67				5.00		113	70-130			
Toluene	5.03				5.00		101	70-130			
1,2,4-Trichlorobenzene	4.44				5.00		88.8	70-130			
1,1,1-Trichloroethane	4.78				5.00		95.6	70-130			
1,1,2-Trichloroethane	4.80				5.00		96.1	70-130			
Trichloroethylene	4.91				5.00		98.2	70-130			
Trichlorofluoromethane (Freon 11)	5.68				5.00		114	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	5.28				5.00		106	70-130			
1,2,4-Trimethylbenzene	5.31				5.00		106	70-130			
1,3,5-Trimethylbenzene	5.30				5.00		106	70-130			
Vinyl Acetate	4.54				5.00		90.7	70-130			
Vinyl Chloride	5.51				5.00		110	70-130			
m&p-Xylene	10.3				10.0		103	70-130			
o-Xylene	5.24				5.00		105	70-130			
<i>Surrogate: 4-Bromofluorobenzene (1)</i>	8.22				8.00		103	70-130			

**Note: Blank Subtraction is not performed unless otherwise noted**

**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m <sup>3</sup>	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

**ANALYST**

TPH	Thomas P. Hnitecki
SFM	Sandra F Mateega
STATION	Report Queue Station
LA	Luis D. Arroyo
KKS	Kyle K. Stuckey
CMR	Catherine M. Rouleau
BRF	Brittany R. Fisk

**INTERNAL STANDARD AREA AND RT SUMMARY**
**EPA TO-15**

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Initial Cal Check (S076501-ICV1)</b>			Lab File ID: G22A256016.D			Analyzed: 09/13/22 22:00			
Bromochloromethane (1)	1141026	8.307	1141026	8.307	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	2751702	10.081	2751702	10.081	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2471195	14.446	2471195	14.446	100	60 - 140	0.0000	+/-0.50	

**INTERNAL STANDARD AREA AND RT SUMMARY**
**EPA TO-15**

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
<b>Calibration Check (S083678-CCV1)</b>			Lab File ID: G23A051004.D			Analyzed: 02/20/23 15:03			
Bromochloromethane (1)	1216535	8.301	1216535	8.301	100	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3273019	10.075	3273019	10.075	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	3038931	14.44	3038931	14.44	100	60 - 140	0.0000	+/-0.50	
<b>LCS (B332364-BS1)</b>			Lab File ID: G23A051005.D			Analyzed: 02/20/23 15:43			
Bromochloromethane (1)	1189989	8.301	1216535	8.301	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3171862	10.075	3273019	10.075	97	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2926361	14.44	3038931	14.44	96	60 - 140	0.0000	+/-0.50	
<b>Blank (B332364-BLK1)</b>			Lab File ID: G23A051010.D			Analyzed: 02/20/23 19:07			
Bromochloromethane (1)	1109054	8.307	1216535	8.301	91	60 - 140	0.0060	+/-0.50	
1,4-Difluorobenzene (1)	2902821	10.075	3273019	10.075	89	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	2662357	14.44	3038931	14.44	88	60 - 140	0.0000	+/-0.50	
<b>SVE EFF (23B2039-01)</b>			Lab File ID: G23A051020.D			Analyzed: 02/21/23 02:07			
Bromochloromethane (1)	1175730	8.301	1216535	8.301	97	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	3099190	10.069	3273019	10.075	95	60 - 140	-0.0060	+/-0.50	
Chlorobenzene-d5 (1)	2859423	14.44	3038931	14.44	94	60 - 140	0.0000	+/-0.50	

## CONTINUING CALIBRATION CHECK

## EPA TO-15

## S083678-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	5.00	5.52	1.084004	1.196299		10.4	30
Benzene	A	5.00	4.95	0.9129288	0.9040158		-1.0	30
Benzyl chloride	A	5.00	5.61	1.030942	1.15663		12.2	30
Bromodichloromethane	A	5.00	4.98	0.6953811	0.6926044		-0.4	30
Bromoform	A	5.00	4.90	0.5656468	0.5537126		-2.1	30
Bromomethane	A	5.00	5.40	0.6009459	0.6489882		8.0	30
1,3-Butadiene	A	5.00	5.51	0.5443004	0.5995704		10.2	30
2-Butanone (MEK)	A	5.00	4.97	1.507683	1.498935		-0.6	30
Carbon Disulfide	A	5.00	5.22	2.02748	2.116899		4.4	30
Carbon Tetrachloride	A	5.00	5.08	0.5479998	0.5571385		1.7	30
Chlorobenzene	A	5.00	4.83	0.8809329	0.8505349		-3.5	30
Chloroethane	A	5.00	5.53	0.3452967	0.3820648		10.6	30
Chloroform	A	5.00	5.42	1.561184	1.69378		8.5	30
Chloromethane	A	5.00	4.95	0.6821899	0.6747913		-1.1	30
Cyclohexane	A	5.00	5.11	0.3600845	0.3677094		2.1	30
Dibromochloromethane	A	5.00	5.08	0.6396581	0.6494631		1.5	30
1,2-Dibromoethane (EDB)	A	5.00	4.95	0.6171207	0.610939		-1.0	30
1,2-Dichlorobenzene	A	5.00	5.08	0.6937094	0.7055213		1.7	30
1,3-Dichlorobenzene	A	5.00	5.22	0.7409581	0.773542		4.4	30
1,4-Dichlorobenzene	A	5.00	5.27	0.7218155	0.7607396		5.4	30
Dichlorodifluoromethane (Freon 12)	A	5.00	5.79	1.62808	1.883865		15.7	30
1,1-Dichloroethane	A	5.00	5.30	1.342742	1.422895		6.0	30
1,2-Dichloroethane	A	5.00	5.70	0.9627523	1.097724		14.0	30
1,1-Dichloroethylene	A	5.00	5.57	1.140142	1.270744		11.5	30
cis-1,2-Dichloroethylene	A	5.00	5.41	0.9670963	1.04659		8.2	30
trans-1,2-Dichloroethylene	A	5.00	5.41	1.001825	1.084351		8.2	30
1,2-Dichloropropane	A	5.00	4.73	0.3567989	0.3375066		-5.4	30
cis-1,3-Dichloropropene	A	5.00	5.08	0.5092852	0.5172023		1.6	30
trans-1,3-Dichloropropene	A	5.00	5.14	0.4570981	0.4701069		2.8	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	5.56	1.73998	1.93322		11.1	30
1,4-Dioxane	A	5.00	4.79	0.1857641	0.1778356		-4.3	30
Ethanol	A	5.00	4.48	0.2343264	0.2098471		-10.4	30
Ethyl Acetate	A	5.00	5.70	0.2308163	0.2632776		14.1	30
Ethylbenzene	A	5.00	5.16	1.455024	1.502697		3.3	30
4-Ethyltoluene	A	5.00	5.54	1.413771	1.565496		10.7	30
Heptane	A	5.00	4.86	0.2850308	0.2772198		-2.7	30
Hexachlorobutadiene	A	5.00	4.37	0.4677459	0.4084141		-12.7	30
Hexane	A	5.00	5.52	0.8985394	0.9307918		10.3	30

CONTINUING CALIBRATION CHECK  
 EPA TO-15

S083678-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
2-Hexanone (MBK)	A	5.00	4.68	0.7712864	0.722771		-6.3	30
Isopropanol	A	5.00	5.57	1.338902	1.490828		11.3	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	5.73	1.834723	2.103351		14.6	30
Methylene Chloride	A	5.00	4.45	0.9597215	0.8536428		-11.1	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.62	0.7726854	0.7144562		-7.5	30
Naphthalene	A	5.00	5.27	1.092246	1.151579		5.4	30
Propene	A	5.00	4.77	0.5941328	0.5669545		-4.6	30
Styrene	A	5.00	5.40	0.7890752	0.8516784		7.9	30
1,1,2,2-Tetrachloroethane	A	5.00	4.73	0.9851261	0.9323552		-5.4	30
Tetrachloroethylene	A	5.00	4.83	0.457194	0.4418391		-3.4	30
Tetrahydrofuran	A	5.00	5.52	0.2957092	0.3262985		10.3	30
Toluene	A	5.00	5.00	1.15399	1.15396		-0.003	30
1,2,4-Trichlorobenzene	A	5.00	4.64	0.4973623	0.4613064		-7.2	30
1,1,1-Trichloroethane	A	5.00	4.96	0.5975698	0.5927914		-0.8	30
1,1,2-Trichloroethane	A	5.00	4.74	0.4162703	0.3947293		-5.2	30
Trichloroethylene	A	5.00	4.96	0.3947958	0.3914282		-0.9	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.75	1.463327	1.681685		14.9	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	5.36	1.432547	1.537017		7.3	30
1,2,4-Trimethylbenzene	A	5.00	5.51	1.156019	1.274671		10.3	30
1,3,5-Trimethylbenzene	A	5.00	5.45	1.190388	1.297972		9.0	30
Vinyl Acetate	A	5.00	4.38	1.986739	1.740196		-12.4	30
Vinyl Chloride	A	5.00	5.55	0.7142115	0.7934154		11.1	30
m&p-Xylene	A	10.0	10.4	1.129066	1.179553		4.5	30
o-Xylene	A	5.00	5.23	1.138955	1.190972		4.6	30

# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

\* Values outside of QC limits



**CERTIFICATIONS**
**Certified Analyses included in this Report**

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
Acetone	AIHA,NY,ME,NH
Benzene	AIHA,FL,NJ,NY,ME,NH,VA
Benzyl chloride	AIHA,FL,NJ,NY,ME,NH,VA
Bromodichloromethane	AIHA,NJ,NY,ME,NH,VA
Bromoform	AIHA,NJ,NY,ME,NH,VA
Bromomethane	AIHA,FL,NJ,NY,ME,NH
1,3-Butadiene	AIHA,NJ,NY,ME,NH,VA
2-Butanone (MEK)	AIHA,FL,NJ,NY,ME,NH,VA
Carbon Disulfide	AIHA,NJ,NY,ME,NH,VA
Carbon Tetrachloride	AIHA,FL,NJ,NY,ME,NH,VA
Chlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Chloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Chloroform	AIHA,FL,NJ,NY,ME,NH,VA
Chloromethane	AIHA,FL,NJ,NY,ME,NH,VA
Cyclohexane	AIHA,NJ,NY,ME,NH,VA
Dibromochloromethane	AIHA,NY,ME,NH
1,2-Dibromoethane (EDB)	AIHA,NJ,NY,ME,NH
1,2-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	AIHA,NJ,NY,ME,NH
1,4-Dichlorobenzene	AIHA,FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	AIHA,NY,ME,NH
1,1-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	AIHA,FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	AIHA,NJ,NY,ME,NH,VA
1,2-Dichloropropane	AIHA,FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	AIHA,FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	AIHA,NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	AIHA,NJ,NY,ME,NH,VA
1,4-Dioxane	AIHA,NJ,NY,ME,NH,VA
Ethanol	AIHA
Ethyl Acetate	AIHA
Ethylbenzene	AIHA,FL,NJ,NY,ME,NH,VA
4-Ethyltoluene	AIHA,NJ
Heptane	AIHA,NJ,NY,ME,NH,VA
Hexachlorobutadiene	AIHA,NJ,NY,ME,NH,VA
Hexane	AIHA,FL,NJ,NY,ME,NH,VA
2-Hexanone (MBK)	AIHA
Isopropanol	AIHA,NY,ME,NH
Methyl tert-Butyl Ether (MTBE)	AIHA,FL,NJ,NY,ME,NH,VA
Methylene Chloride	AIHA,FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	AIHA,FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Propene	AIHA
Styrene	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	AIHA,FL,NJ,NY,ME,NH,VA

**CERTIFICATIONS**
**Certified Analyses included in this Report**

Analyte	Certifications
<b>EPA TO-15 in Air</b>	
Tetrachloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Tetrahydrofuran	AIHA
Toluene	AIHA,FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	AIHA,NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	AIHA,FL,NJ,NY,ME,NH,VA
Trichloroethylene	AIHA,FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	AIHA,NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	AIHA,NJ,NY,ME,NH,VA
1,2,4-Trimethylbenzene	AIHA,NJ,NY,ME,NH
1,3,5-Trimethylbenzene	AIHA,NJ,NY,ME,NH
Vinyl Acetate	AIHA,FL,NJ,NY,ME,NH,VA
Vinyl Chloride	AIHA,FL,NJ,NY,ME,NH,VA
m&p-Xylene	AIHA,FL,NJ,NY,ME,NH,VA
o-Xylene	AIHA,FL,NJ,NY,ME,NH,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO 17025:2017	100033	03/1/2024
NY	New York State Department of Health	10899 NELAP	04/1/2023
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NJ	New Jersey DEP	MA007 NELAP	06/30/2023
FL	Florida Department of Health	E871027 NELAP	06/30/2023
ME	State of Maine	MA00100	06/9/2023
VA	Commonwealth of Virginia	460217	12/14/2023



Company Name: **73 B 2039**  
Address: **225 ATLANTIC AVENUE, PARSONS, NY 11977**  
Phone: **631-477-6400**  
Project Name: **DEC WESTISUMY 123**  
Project Location: **123 BOSTON AVE**  
Project Number: **NYSDEC # 130088**  
Project Manager: **IAN HOFMANN**  
Con-Test Quote Name/Number:  
Invoice Recipient:  
Sampled By: **EAR**

Requested Grounding Time:  
 7-Day  10-Day  Rush Approval Required:  
 1-Day  3-Day  2-Day  4-Day  Data Delivery:  
Format: PDF  EXCEL  Other:  
CLP Like Data Pkg Required:   
Email To:  
Fax To #:

Collection Data		Flow Rate	Duration	Matrix	Volume	Flow Controller ID
Beginning Date/Time	Ending Date/Time	m <sup>3</sup> /min L/min	Total Minutes Sampled	Code	Liters m <sup>3</sup>	
17 FEB 23 0945	30	SS	30	SS	1	2531 B-3085

Lab Receipt Pressure: \_\_\_\_\_  
Final Pressure: \_\_\_\_\_  
Initial Pressure: \_\_\_\_\_

Comments: REQUEST NYDEC CATEGORY 'B' DELIVERABLES

Relinquished by: (signature) \_\_\_\_\_ Date/Time: 17 FEB 23  
Received by: (signature) \_\_\_\_\_ Date/Time: 17 FEB 23  
Requester: (signature) \_\_\_\_\_ Date/Time: 2/15/23 11:52  
Received by: (signature) \_\_\_\_\_ Date/Time: 2/15/23 11:54  
Requester: (signature) \_\_\_\_\_ Date/Time: 2/15/23 1800  
Received by: (signature) \_\_\_\_\_ Date/Time: 2/15/23

Matrix Codes:  
SG = SOIL GAS  
IA = INDOOR AIR  
AMB = AMBIENT  
SS = SUB SLAB  
D = DUP  
BL = BLANK  
O = Other



Special Requirements:  
MA MCP Required:   
MCP Certification Form Required:   
CT RCP Required:   
RCP Certification Form Required:   
Other:

Project Entity:  
Government:  Federal:  City:   
Municipality:  21 J:  Brownfield:   
MWRA:  School:  MBTA:   
WRMA:  Chromatogram:   
AIHA-LAP, LLC:  Other:   
PCB ONLY:  Soxhlet:  Non Soxhlet:



# Sample Condition Upon Receipt

Client Name: EAR

Project #

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other

Tracking #: \_\_\_\_\_

Custody Seal on Cooler/Box Present:  Yes  No / Seals intact:  Yes  No  N/A

Packing Material:  Bubble Wrap  Bubble Bags  Ziploc  None  Other

Thermometer Used: TH091 Y1149 Correction Factor: \_\_\_\_\_

Cooler Temperature(°C): 3.6 Cooler Temperature Corrected(°C): 3.7

Temp should be above freezing to 6.0°C

USDA Regulated Soil (  N/A, water sample)

Date and Initials of person examining contents: MY 2/15/13 1800

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)?  Yes  No

Did samples originate from a foreign source including Hawaii and Puerto Rico?  Yes  No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

		COMMENTS:	
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.	
Sufficient Volume: (Triple volume provided for I)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Containers Intact:	<input type="checkbox"/> Yes <input type="checkbox"/> No	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.	
-Includes date/time/ID, Matrix: SL WT OIL			
All containers needing preservation have been checked?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> NaOH <input type="checkbox"/> HCl	
pH paper Lot #		Sample #	
All containers needing preservation are found to be in compliance with method recommendation? (HNO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> , HCl, NaOH>9 Sulfide, NaOH>12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis		Initial when completed:	Lot # of added preservative:
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Date/Time preservative added:	
KI starch test strips Lot #		Positive for Res. Chlorine? Y N	
Residual chlorine strips Lot #		Positive for Sulfide? Y N	
SM 4500 CN samples checked for sulfide?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.	
Lead Acetate Strips Lot #			
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	17.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Pace Trip Blank Lot # (if applicable):			

Client Notification/ Resolution: \_\_\_\_\_

Field Data Required? Y / N

Person Contacted: \_\_\_\_\_

Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\* PM (Project Manager) review is documented electronically in LIMS.

39 Spruce St.  
 East Longmeadow, MA. 01028  
 P: 413-525-2332  
 F:413-525-6405  
 www.pacelabs.com

# Log In Back-Sheet

Login Sample Receipt Checklist – (Rejection Criteria Listing  
 – Using Acceptance Policy) Any False statement will be  
 brought to the attention of the Client – True or False



Client EAR  
 Project 123 Post Ave  
 MCP/RCP Required \_\_\_\_\_  
 Deliverable Package Requirement MDEC Cat B  
 Location 123 Post Ave  
 PWSID# (When Applicable) \_\_\_\_\_  
 Arrival Method Courier  
 Received By / Date / Time LA 2-16-23 1800  
 Back-Sheet By / Date / Time TPH 2-17-23 1330  
 Temperature Method \_\_\_\_\_ # \_\_\_\_\_  
 Temp < 6° C  Actual Temperature \_\_\_\_\_  
 Rush Samples: Yes / No \_\_\_\_\_ Notify \_\_\_\_\_  
 Short Hold: Yes / No \_\_\_\_\_ Notify \_\_\_\_\_

	True	False
Received on Ice	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Received in Cooler	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Custody Seal: DATE TIME	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Relinquished	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC/Samples Labels Agree	<input checked="" type="checkbox"/>	<input type="checkbox"/>
All Samples in Good Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Samples Received within Holding Time	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is there enough Volume	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Proper Media/Container Used	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Individually Certified Cans	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Trip Blanks	<input type="checkbox"/>	<input checked="" type="checkbox"/>
COC Legible	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC Included: (Check all included)		
Client	<input checked="" type="checkbox"/>	Analysis <input checked="" type="checkbox"/> Sampler Name <input checked="" type="checkbox"/>
Project	<input checked="" type="checkbox"/>	IDs <input checked="" type="checkbox"/> Collection Date/Time <input checked="" type="checkbox"/>

**Notes regarding Samples/COC outside of SOP:**  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Item	Count	Notes	Time	Material	IC Train
Summa Cans	1	IL	30min	Nut/Ferrule	<input checked="" type="checkbox"/>
Tedlar Bags				Tubing	<input checked="" type="checkbox"/>
TO-17 Tubes				T-Connector	<input checked="" type="checkbox"/>
Radiello				Syringe	
Pufs/ TO-11				Tedlar	

Sample ID	Media	Notes	Time	Material	IC Train
2531					
3035					
Unused Media					
Pufs/TO					



# Air Sampling Media Certificate of Analysis

**Date Analyzed:** 1/28/2023 **Batch #:** 23CC0079

**Certification Type:** *Batch Certified*  *Individual Certified*

**Media Type:** *Summa Canister*  *Flow Controllers*

**Media IDs:** BC2531 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

**Units:** PPBv

<0.80	Propene	<0.04	Vinyl acetate	<0.02	Dibromchloromethane
<0.02	Dichlorodifluoromethane	<0.20	Hexane	<0.02	1,2-Dibromomethane
<0.04	Chloromethane	<0.02	Ethyl acetate	<0.02	Tetrachloroethylene
<0.02	Freon 114	<0.02	Chloroform	<0.02	Chlorobenzene
<0.02	Vinyl chloride	<0.02	Tetrahydrofuran	<0.02	Ethylbenzene
<0.02	1,3-Butadiene	<0.02	1,2-Dichloroethane	<0.04	m,p-Xylenes
<0.02	Bromomethane	<0.02	1,1,1-Trichloroethane	<0.02	Bromoform
<0.02	Chloroethane	<0.02	Benzene	<0.02	Styrene
<0.08	Acrolein	<0.02	Carbon Tetrachloride	<0.02	o-Xylene
<0.80	Acetone	<0.02	Cyclohexane	<0.02	1,1,1,2,2-Tetrachloroethane
<0.20	Trichlorofluoromethane	<0.02	1,2-Dichloropropane	<0.02	4-Ethyltoluene
<0.80	Ethanol	<0.02	Bromodichloromethane	<0.02	1,3,5-Trimethylbenzene
<0.02	1,1-Dichloroethylene	<0.02	Trichloroethylene	<0.02	1,2,4-Trimethylbenzene
<0.20	Methylene chloride	<0.02	1,4-Dioxane	<0.02	1,3-Dichlorobenzene
<0.20	Freon 113	<0.02	Methylmethacrylate	<0.02	Benzyl chloride
<0.2	Carbon disulfide	<0.02	Heptane	<0.02	1,4-Dichlorobenzene
<0.02	t-1,2-Dichloroethylene	<0.02	MIBK	<0.02	1,2-Dichlorobenzene
<0.02	1,1-Dichloroethane	<0.02	c-1,3-Dichloropropylene	<0.04	1,2,4-Trichlorobenzene
<0.02	MTBE	<0.02	t-1,3-Dichloropropylene	<0.02	Naphthalene
<0.80	IPA	<0.02	1,1,2-Trichloroethylene	<0.02	Hexachlorobutadiene
<0.20	2-Butanone (MEK)	<0.02	Toluene		
<0.02	c-1,2-Dichloroethylene	<0.02	2-Hexanone (MBK)		

**Special Notes:** \_\_\_\_\_

**Analyst Initials/Date:** CMR 2/23/23