



September 5, 2024

Jolene Lozewski, P.G.
New York State Department of Environmental Conservation
625 Broadway, 12th 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 August 2024.

Routine Operation & Maintenance

Routine O&M activities were conducted on 8/13/24. 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

8/13/24 - EAR was onsite to conduct routine O&M. The system was operating upon arrival to and departure from the site. No condensate was observed in the moisture separator tank. The site data information sheet for 8/13/24 is provided in Appendix A.

Total system uptime for August 2024 is 100%.

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

System Air Sampling

On 8/13/24, an air sample was collected from the system's effluent airstream for laboratory analysis. The sample was collected using a 6-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 as follows:

Contaminant	Effluent Concentration (ug/m3)	Emissions (lbs/hr)	MEL¹ (lbs/hr)
PCE	110	0.00007	0.114
TCE	<0.54	0.000	0.057
1,2-DCE	14.79	0.00001	Not established
1,2-DCA	<0.40	0.000	0.011
Vinyl Chloride	<0.26	0.000	0.011

Historical vapor phase emission data can be found 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,

Ian Hofmann
Project Manager

Cc:

S. Bogardus (DOH)

J. Lawrence (EAR)

¹ Mass Emission Limits as per 6NYCRR Part 212-2



TABLES

Table 1: System Monitoring Log

Table 2: Vapor Phase Emissions – Select Contaminants

Table 1

123 Post Avenue
123 Post Avenue, Westbury, NY
NYSDEC Site No. 130088

SVE System Data Log



	Flow (cfm)				Vacuum ("H2O)				PID (ppm)				Vacuum ("H2O)				Pre-Blower		Post Blower				Moist-Sep		System Runtime						
Date/Time	RW-15	RW-25	RW-35	RW-45	RW-15	RW-25	RW-35	RW-45	RW-15	RW-25	RW-35	RW-45	SV-1	SV-2	SV-3	SS-1	SS-2	Vac ("H2O)	Flow (cfm)	Press. ("H2O)	Flow (cfm)	PID (ppm)	Temp (F)	Vac ("H2O)	Hr Meter	Date & Time	HR Meter Diff.	Hrs Since Last Visit	Percentage Uptime Since Last Visit	Percentage Uptime by Month	
4/6/2020	30	45	45	10	-14	-7	-8	-18	6	0.4	0	0	0	0	0	-	-	-30	200	-	190	0.3	93	-27.5	-	-	-	-	-	-	-
4/14/2020	30	65	65	10	-14	-7	-14	-18	0.2	0.1	0.5	0	0	0	0	-	-	-30	200	0	200	0.4	100	-32	-	-	-	-	-	-	-
4/20/2020	30	65	65	5	-16	-6	-8	-16	0	0.1	0	0	-0.25	-0.17	-0.67	-	-	-28	170	2	205	0	92	-26	-	-	-	-	-	-	
4/27/2020	25	65	65	20	-15	-7	-8	-17	0.2	0.3	0.6	0	-0.1	0	-0.1	-	-	-30	200	0	200	0.5	100	-22	-	-	-	-	-	-	-
April 2020 Avg.	28.8	60	60	11.3	-14.8	-6.8	-9.5	-17.3	1.6	0.23	0.28	0	-0.088	-0.043	-0.193	-	-	-29.5	192.5	0.7	198.8	0.3	93	-27.5	-	-	-	-	-	-	-
5/4/2020	24	70	70	10	-8	-7	-8	-14	0.2	0.4	0.6	0	-0.1	0	-0.1	-	-	-30	200	2	190	0.5	100	-35	-	-	-	-	-	-	-
5/14/2020	31	72	68	5	-16	-6	-8	-17	0	0	0	0	-1.4	-0.4	-0.3	-	-	-28	168	3.7	182	0	94	-26	-	-	-	-	-	-	-
5/21/2020	-	65	65	20	-	-6	-7	-16	-	-	-	-	0	-0.7	0	-	-	-28.5	168	3.4	175	0	108	-23	-	-	-	-	-	-	-
5/26/2020	30	71	68	19	-14	-6	-8	-16	0	0	0	0	-0.8	-0.12	-1.2	-	-	-30	168	2.8	182	0	104	-26	-	-	-	-	-	-	-
May 2020 Avg.	28.3	69.5	67.8	13.5	-12.7	-6.3	-7.8	-15.8	0.07	0.13	0.20	0	-0.575	-0.305	-0.400	-	-	-29.1	176	3.0	182.3	0.1	102	-27.5	-	-	-	-	-	-	-
6/2/2020	29	64	69	14	-14	-6	-8	-16	0	0	0	0	-0.7	-0.39	-0.94	-	-	-28	168	2.7	198	0	106	-26	-	-	-	-	-	-	-
6/8/2020	30	60	65	15	-13.5	-6	-7.5	-15	0	0	0	0	-0.5	0.2	-7.4	-	-	-27	150	3.13	175	0	116	-28	-	-	-	-	-	-	-
6/17/2020	30	68	70	17	-14	-5	-8	-16	0	0	0	0	-0.035	-0.068	-0.12	-	-	-28	168	2.9	178	0	108	-26	-	-	-	-	-	-	-
6/22/2020	32	68	70	18	-14	-5	-8	-16	0.1	0.5	0.6	0.1	-0.5	-1.35	-1.44	-	-	-28	170	2.9	188	0.4	118	-26	-	-	-	-	-	-	-
6/29/2020	33	68	68	17	-14	-5	-8	-16	0.1	0.5	0.7	0	-0.45	-0.9	-1.2	-	-	-28	168	2.9	176	0.5	122	-26	-	-	-	-	-	-	-
June 2020 Avg.	30.8	65.6	68.4	16.2	-13.9	-5.4	-7.9	-15.8	0.04	0.2	0.26	0.02	-0.437	-0.502	-0.732	-	-	-27.8	164.8	2.906	181	0.18	114	-26.4	-	-	-	-	-	-	-
7/6/2020	28	70	76	15	-13.5	-5	-6	-15	0	0	0	1	0	0	0	-	-	-27	150	2.3	155	13	126	-24	-	-	-	-	-	-	-
7/13/2020	35	45	45	25	-14	-5	-8	-16	0	0.2	0.6	0	0	0	0	-	-	-28	180	0	180	0	120	-25	-	-	-	-	-	-	-
7/20/2020	33	70	68	14	-16	-5	-8	-16	0	0.2	0.3	0	-0.34	0.13	-22.1	-0.13	-0.14	-28	169	2.6	178	0.2	130	-26	-	-	-	-	-	-	-
7/29/2020	31	69	71	14	-14	-6	-8	-16	0	0.2	0.4	0	-0.24	-2.04	-27.41	-0.12	-0.31	-28	170	1.9	180	0.9	128	-28	-	-	-	-	-	-	-
July 2020 Avg.	31.75	63.5	65	17	-14.38	-5.25	-7.5	-15.75	0	0.15	0.325	0.25	-0.145	-0.478	-12.403	-0.125	-0.225	-27.75	167.25	1.7	173.25	3.525	126	-25.75	-	-	-	-	-	-	-
8/4/2020	30	65	61	15	-12.3	-4.1	-6.2	-15.4	0	0	0	0	-0.9	-1.6	0	-	-	-28	172	3.1	175	0	122	-25	-	-	-	-	-	-	-
8/10/2020	30	67	70	14	-13	-6	-9	-16	0.1	0.3	0.1	0	-0.33	-1.8	-25.5	-0.15	-0.3	-27	168	2.1	170	0.2	126	-25	-	-	-	-	-	-	-
8/17/2020	30	67	72	17	-14	-6	-8	-16	0	0.2	0.4	0	-0.33	-0.5	-24.1	-0.21	-0.24	-28	168	2	175	0.7	120	-25	-	-	-	-	-	-	-
8/24/2020	30	68	70	17	-13.5	-6	-8	-16	0	0.1	0.1	0	-0.29	-0.83	-0.6	-0.01	-0.15	-28	170	1.9	180	0.2	122	-25	-	-	-	-	-	-	-
8/31/2020	31	69	72	18	-14	-6	-8	-16	0	0.2	1.4	0	-0.31	-0.98	-1.2	-0.22	-0.15	-28	171	2.2	180	1.0	118	-25	-	-	-	-	-	-	-
August 2020 Avg.	30.2	67.2	69	16.2	-13.36	-5.62	-7.84	-15.88	0.02	0.16	0.4	0	-0.432	-1.142	-10.28	-0.148	-0.21	-27.8	169.8	2.26	176	0.42	121.6	-25	-	-	-	-	-	-	-
9/14/2020	34	70	72	17	-14	-6	-8	-16	0.2	0.6	1.9	0	-0.48	-0.52	-0.46	-0.3	-0.19	-28	166	2.4	180	1.6	120	-26	-	-	-	-	-	-	-
9/28/2020	36	61	65	19	-11.8	-6.3	-5.3	-14.2	0	0.1	0	0	-0.13	-1.12	-0.45	-	-	-28	170	2.2	205	0.4	124	-25	-	-	-	-	-	-	-
September 2020 Avg.	35	65.5	68.5	18	-12.9	-6.15	-6.65	-15.1	0.1	0.35	0.95	0	-0.305	-0.82	-0.455	-0.3	-0.19	-28	168	2.3	192.5	1	122	-25.5	-	-	-	-	-	-	-
10/1/2020	28	70	65	18	-14	-7	-8	-16	0	0.1	0.2	0	-0.35	-1.1	-0.68	-0.17	-0.2	-27	170	2.1	185	0.3	100	-24	-	-	-	-	-	-	-
10/26/2020	27	70	72	16	-14	-6	-9	-15	0	0.2	0.1	0	-0.8	-1.1	-0.75	-0.19	-0.17	-27	175	2	181	0.1	112	-26	-	-	-	-	-	-	-
October 2020 Avg.	27.5	70	68.5	17	-14	-6.5	-8.5	-15.5	0	0.15	0.15	0	-0.575	-1.1	-0.715	-0.18	-0.185	-27	172.5	2.05	183	0.2	106	-25	-	-	-	-	-	-	-
11/9/2020	33	70	68	15	-16	-6	-9	-17	0	0	0	0	-1.02	-1.11	-0.89	-0.11	-0.12	-30	178	3.5	182	0	102	-26	-	-	-	-	-	-	-
11/23/2020	35	67	72	14	-16	-6	-8	-18	0	0	0.3	0	-1.11	-0.8	-0.5	-0.18	-0.11	-30	177	3.2	175	0.1	100	-27	-	-	-	-	-	-	-
November 2020 Avg.	34	68.5	70	14.5	-16	-6	-8.5	-17.5	0	0	0.15	0	-1.065	-0.955	-0.695	-0.145	-0.115	-30	177.5	3.35	178.5	0.05	101	-26.5	-	-	-	-	-	-	-
1/4/2021	16	60	62	14	-8	-4	-8	-10	0	0	0	0	-0.36	-0.31	-0.34	-0.09	-0.08	-18	200	1.1	240	0	72	-16	-	-	-	-	-	-	-
1/18/2021	18	65	69	21	-10	-5	-7.5	-13	0	0	0	0	-1.01	-0.8	-0.99	-0.1	-0.11	-24	220	0.9	228	0	79	-20	-	-	-	-	-	-	-
January 2021 Avg.	17	62.5	65.5	17.5	-9	-4.5	-7.75	-1.5	0	0	0	0	-0.685	-0.555	-0.665	-0.095	-0.21	210	1	234	0	75.5	-18	-	-	-	-	-	-	-	
2/5/2021	39	65	65	47	-15	-9	-5	-10	-	-	-	-	-	-	-	-	-	-37	210	-	220	-	80	-	-	-	-	-	-	-	-
2/16/2021	39	70	68	47	-15	-5	-9	-10	0.1	0	0.6	0.2	-2.01	-0.89	-1.88	-0.09	-0.15	-37	210	1.2	221	0.4	80	-30	-	-	-	-	-	-	-

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 - 11/2023), Phoenix Labs (2/2024), ConTest/Pace Labs (5/2024 -)



Date	Flow Rate (CFM)	Tetrachloroethene				Trichloroethene				1,2-Dichloroethene				1,2-Dichloroethane				Vinyl Chloride				Total VOC			
		Emissions Rate				Emissions Rate				Emissions Rate				Emissions Rate				Emissions Rate				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)	Vinyl Chloride (ug/M3)	(lbs/hr)	(lbs/day)	Cumulative (lbs)	Total VOC (ug/M3)	(lbs/hr)	(lbs/day)	Cumulative (lbs)
02/14/23	184.0	1.6	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	<0.51	0.000	0.000	0.000	266	0.000	0.004	0.000
05/16/23	185.0	2.3	0.00000	0.000	0.002	<0.54	0.00000	0.000	0.000	<0.8	0.0000	0.000	0.000	<0.4	0.00000	0.000	0.000	<0.26	0.000	0.000	0.000	5,955	0.004	0.099	0.401
08/08/23	190.0	530.0	0.00038	0.009	0.006	30	0.00002	0.001	0.000	19	0.0000	0.000	0.000	<0.4	0.00000	0.000	0.000	<0.26	0.000	0.000	0.000	646	0.000	0.011	8.722
11/10/23	180.0	22.0	0.00001	0.000	0.857	3	0.00000	0.000	0.048	5	0.0000	0.000	0.031	0.4	0.00000	0.000	0.000	<0.26	0.000	0.000	0.000	633	0.000	0.010	9.759
02/20/24	190.0	2,010.0	0.00143	0.034	0.893	19	0.00001	0.000	0.053	8	0.0000	0.000	0.039	<5.02	0.00000	0.000	0.001	<1.0	0.000	0.000	0.000	2,053	0.001	0.035	10.804
05/15/24	180.0	1.9	0.00000	0.000	3.812	2	0.00000	0.000	0.080	3	0.0000	0.000	0.050	<0.40	0.00000	0.000	0.001	<0.26	0.000	0.000	0.000	218	0.000	0.004	13.786
08/13/24	180.0	110.0	0.00007	0.002	3.815	<0.54	0.00000	0.000	0.083	15	0.0000	0.000	0.054	<0.40	0.00000	0.000	0.001	<0.26	0.000	0.000	0.000	362	0.000	0.006	14.104
AVERAGE:	184.1			0.007				0.000				0.000				0.000				0.000				0.024	

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
MASS EMISSION LIMITS (MEL) per 6NYCRR Part 212-2 Table 2:
PCE: 1,000 lbs/year (or 0.114 lbs/hr)
TCE: 500 lbs/year (or 0.057 lbs/hr)
1,2-DCE: not established
1,2-DCA: 100 lbs/year (or 0.011 lbs/hr)
Vinyl Chloride: 100 lbs/year (or 0.011 lbs/hr)



Appendix A: Site Data Information Sheets

130088
123 POST AVENUE
WESTBURY, NY 11590

O&M CHECKLIST - SVE SYSTEM

Date: 8/13/24

Inspected By: JB

System:
SVE Vacuum Relief Valve:
Hour Meter (Hours):

Arrival
☒ On / ☐ Off
Open / ☒ Closed

Departure
☒ On / ☐ Off
Open / ☒ Closed

19343.7 @ 8:30

SVE SYSTEM

Liquid Present in Moisture Separator? Amount?	Yes / ☒ No	
Moisture Separator Emptied?	Yes / ☒ No	
Moisture Disposal Drum	F / 75 / ☒ 50 / 25 / E	
Particulate Filter Inspected?	☒ Yes / ☐ No	
Particulate Filter Require Cleaning or Replacement?	Yes / ☒ No	
Condition of SVE Shed?	<u>good</u>	
Vegetation Require Maintenance?	Yes / ☒ No	
Any Evidence of System Tampering, Vandalism or Damage?	Yes / ☒ No	
Exhaust Stack in Good Condition?	☒ Yes / ☐ No	

SVE WELL READINGS

SVE Well #	Air Flow (cfm)	Vacuum ("H2O)	PID (ppm)	Flow Control (Ball) Valve	Condition of Well?
RW1-S	<u>28</u>	<u>-20</u>	<u>0</u>	☒ / 75 / 50 / 25 / C	
RW2-S	<u>70</u>	<u>-12</u>	<u>0.2</u>	☒ / 75 / 50 / 25 / C	
RW3-S	<u>72</u>	<u>-13</u>	<u>0.1</u>	☒ / 75 / 50 / 25 / C	
RW4-S	<u>18</u>	<u>-22</u>	<u>0</u>	☒ / 75 / 50 / 25 / C	

SVE MONITORING POINTS

	Vacuum ("H2O)		Vacuum ("H2O)	Notes
SV-1	<u>- .69</u>	SS-1	<u>- .12</u>	
SV-2	<u>- .74</u>	SS-2	<u>- .14</u>	
SV-3	<u>- .70</u>			

SVE SYSTEM DATA

	Moisture Separator	Pre-Blower (Influent)	Post-Blower (Effluent)	Notes
Vacuum ("H2O)	<u>-28</u>	<u>-33</u>		
Pressure ("H2O)			<u>+1.9</u>	
Air Flow (cfm)		<u>180</u>	<u>180</u>	
PID (ppm)			<u>0.1</u>	
Temp (F)		<u>-</u>	<u>104</u>	

CARBON SYSTEM DATA

	Pre-Carbon	Between Carbon	Post-Carbon	Notes
Air Flow (cfm)			<u>-</u>	
PID (ppm)	<u>-</u>	<u>-</u>	<u>-</u>	

SVE RADIUS OF INFLUENCE

Piezometer ID	Vacuum ("H2O)	Notes
MW-1	<u>-</u>	
MW-2	<u>-</u>	
MW-3	<u>-1.1</u>	

Attached Photographs



Appendix B: Laboratory Analytical Report

August 20, 2024

Ian Hofmann
NYDEC_Environmental Assessment & Remediation
225 Atlantic Avenue
Patchogue, NY 11772

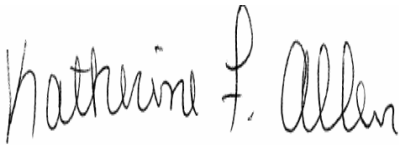
Project Location: Westbury, NY
Client Job Number:
Project Number: 130088
Laboratory Work Order Number: 24H2147

Enclosed are results of analyses for samples as received by the laboratory on August 15, 2024. 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: 8/20/2024

PURCHASE ORDER NUMBER: 149579

PROJECT NUMBER: 130088

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 24H2147

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

PROJECT LOCATION: Westbury, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SVE EFF	24H2147-01	Air		- 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.

EPA TO-15**Qualifications:**

L-01 Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:**1,4-Dichlorobenzene**B383479-BS1

L-05 Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.

Analyte & Samples(s) Qualified:**Ethanol**24H2147-01[SVE EFF], B383479-BS1

V-20 Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,4-Dichlorobenzene**B383479-BS1, S109188-CCV1

V-35 Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.

Analyte & Samples(s) Qualified:**Naphthalene**24H2147-01[SVE EFF], B383479-BS1, S109188-CCV1

V-36 Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:**1,2,4-Trichlorobenzene, 1,4-Dioxane**B383479-BS1, S109188-CCV1

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.



Lisa A. Worthington
Technical Representative

ANALYTICAL RESULTS

Project Location: Westbury, NY
Date Received: 8/15/2024
Field Sample #: SVE EFF
Sample ID: 24H2147-01
Sample Matrix: Air
Sampled: 8/13/2024 10:42

Sample Description/Location:
Sub Description/Location:
Canister ID: P0571
Canister Size: 6 liter
Flow Controller ID: 4677
Sample Type: 30 min

Work Order: 24H2147
Initial Vacuum(in Hg): -28
Final Vacuum(in Hg): -5
Receipt Vacuum(in Hg): -5.7
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		
Benzene	0.32	0.10	0.031		1.0	0.32	0.099	2	8/15/24	23:11	CMR
Benzyl chloride	ND	0.20	0.051		ND	1.0	0.26	2	8/15/24	23:11	CMR
Bromodichloromethane	ND	0.10	0.041		ND	0.67	0.27	2	8/15/24	23:11	CMR
Bromoform	ND	0.10	0.024		ND	1.0	0.25	2	8/15/24	23:11	CMR
Bromomethane	ND	0.10	0.085		ND	0.39	0.33	2	8/15/24	23:11	CMR
2-Butanone (MEK)	4.9	4.0	2.0		15	12	5.8	2	8/15/24	23:11	CMR
tert-Butyl Alcohol (TBA)	0.72	0.41	0.15		2.2	1.2	0.47	2	8/15/24	23:11	CMR
Carbon Tetrachloride	ND	0.10	0.079		ND	0.63	0.50	2	8/15/24	23:11	CMR
Chlorobenzene	ND	0.10	0.033		ND	0.46	0.15	2	8/15/24	23:11	CMR
Chloroethane	ND	0.10	0.092		ND	0.26	0.24	2	8/15/24	23:11	CMR
Chloroform	0.60	0.10	0.049		2.9	0.49	0.24	2	8/15/24	23:11	CMR
Chloromethane	0.16	0.20	0.13	J	0.33	0.41	0.28	2	8/15/24	23:11	CMR
Cyclohexane	ND	0.10	0.078		ND	0.34	0.27	2	8/15/24	23:11	CMR
Dibromochloromethane	ND	0.10	0.067		ND	0.85	0.57	2	8/15/24	23:11	CMR
1,2-Dibromoethane (EDB)	ND	0.10	0.062		ND	0.77	0.48	2	8/15/24	23:11	CMR
1,2-Dichlorobenzene	ND	0.10	0.032		ND	0.60	0.19	2	8/15/24	23:11	CMR
1,3-Dichlorobenzene	8.6	0.10	0.030		52	0.60	0.18	2	8/15/24	23:11	CMR
1,4-Dichlorobenzene	ND	0.10	0.048		ND	0.60	0.29	2	8/15/24	23:11	CMR
Dichlorodifluoromethane (Freon 12)	0.56	0.10	0.042		2.8	0.49	0.21	2	8/15/24	23:11	CMR
1,1-Dichloroethane	ND	0.10	0.049		ND	0.40	0.20	2	8/15/24	23:11	CMR
1,2-Dichloroethane	ND	0.10	0.038		ND	0.40	0.15	2	8/15/24	23:11	CMR
1,1-Dichloroethylene	ND	0.10	0.070		ND	0.40	0.28	2	8/15/24	23:11	CMR
cis-1,2-Dichloroethylene	3.4	0.10	0.048		14	0.40	0.19	2	8/15/24	23:11	CMR
trans-1,2-Dichloroethylene	0.20	0.10	0.047		0.79	0.40	0.19	2	8/15/24	23:11	CMR
1,2-Dichloropropane	ND	0.10	0.074		ND	0.46	0.34	2	8/15/24	23:11	CMR
cis-1,3-Dichloropropene	ND	0.10	0.051		ND	0.45	0.23	2	8/15/24	23:11	CMR
trans-1,3-Dichloropropene	ND	0.10	0.097		ND	0.45	0.44	2	8/15/24	23:11	CMR
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.10	0.040		ND	0.70	0.28	2	8/15/24	23:11	CMR
1,4-Dioxane	ND	1.0	0.49		ND	3.6	1.8	2	8/15/24	23:11	CMR
Ethanol	12	4.0	2.7	L-05	23	7.5	5.0	2	8/15/24	23:11	CMR
Ethylbenzene	0.65	0.10	0.034		2.8	0.43	0.15	2	8/15/24	23:11	CMR
Heptane	0.21	0.10	0.063		0.85	0.41	0.26	2	8/15/24	23:11	CMR
Hexachlorobutadiene	ND	0.10	0.059		ND	1.1	0.63	2	8/15/24	23:11	CMR
Hexane	ND	4.0	2.1		ND	14	7.4	2	8/15/24	23:11	CMR
Methyl tert-Butyl Ether (MTBE)	28	0.10	0.049		99	0.36	0.18	2	8/15/24	23:11	CMR
Methylene Chloride	ND	1.0	0.27		ND	3.5	0.93	2	8/15/24	23:11	CMR
4-Methyl-2-pentanone (MIBK)	0.46	0.10	0.048		1.9	0.41	0.19	2	8/15/24	23:11	CMR
Naphthalene	0.30	0.10	0.081	V-35	1.6	0.52	0.43	2	8/15/24	23:11	CMR
Styrene	0.28	0.10	0.077		1.2	0.43	0.33	2	8/15/24	23:11	CMR
1,1,2,2-Tetrachloroethane	ND	0.10	0.025		ND	0.69	0.17	2	8/15/24	23:11	CMR
Tetrachloroethylene	17	0.10	0.086		110	0.68	0.58	2	8/15/24	23:11	CMR
Toluene	1.8	0.10	0.050		6.9	0.38	0.19	2	8/15/24	23:11	CMR
1,2,4-Trichlorobenzene	ND	0.10	0.058		ND	0.74	0.43	2	8/15/24	23:11	CMR
1,1,1-Trichloroethane	0.078	0.10	0.045	J	0.43	0.55	0.25	2	8/15/24	23:11	CMR
1,1,2-Trichloroethane	ND	0.10	0.035		ND	0.55	0.19	2	8/15/24	23:11	CMR
Trichloroethylene	ND	0.10	0.077		ND	0.54	0.41	2	8/15/24	23:11	CMR
Trichlorofluoromethane (Freon 11)	0.26	0.40	0.041	J	1.5	2.2	0.23	2	8/15/24	23:11	CMR

ANALYTICAL RESULTS

Project Location: Westbury, NY
 Date Received: 8/15/2024
Field Sample #: SVE EFF
Sample ID: 24H2147-01
 Sample Matrix: Air
 Sampled: 8/13/2024 10:42

Sample Description/Location:
 Sub Description/Location:
 Canister ID: P0571
 Canister Size: 6 liter
 Flow Controller ID: 4677
 Sample Type: 30 min

Work Order: 24H2147
 Initial Vacuum(in Hg): -28
 Final Vacuum(in Hg): -5
 Receipt Vacuum(in Hg): -5.7
 Flow Controller Type: Fixed-Orifice
 Flow Controller Calibration
 RPD Pre and Post-Sampling: <20%

EPA TO-15

Analyte	ppbv				ug/m3				Date/Time		Analyst
	Results	RL	MDL	Flag/Qual	Results	RL	MDL	Dilution	Analyzed		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.066	0.40	0.027	J	0.51	3.1	0.21	2	8/15/24 23:11	CMR	
1,2,4-Trimethylbenzene	1.3	0.10	0.060		6.2	0.49	0.29	2	8/15/24 23:11	CMR	
1,3,5-Trimethylbenzene	0.46	0.10	0.077		2.3	0.49	0.38	2	8/15/24 23:11	CMR	
2,2,4-Trimethylpentane	0.35	0.27	0.086		1.6	1.3	0.40	2	8/15/24 23:11	CMR	
Vinyl Chloride	ND	0.10	0.051		ND	0.26	0.13	2	8/15/24 23:11	CMR	
m&p-Xylene	1.5	0.20	0.068		6.5	0.87	0.30	2	8/15/24 23:11	CMR	
o-Xylene	1.1	0.10	0.031		4.6	0.43	0.14	2	8/15/24 23:11	CMR	

Surrogates	% Recovery	% REC Limits	
4-Bromofluorobenzene (1)	106	70-130	8/15/24 23:11
4-Bromofluorobenzene (2)	89.4	70-130	8/15/24 23:11

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

Lab Number [Field ID]	Batch	Pressure Dilution	Pre Dilution	Pre-Dil Initial mL	Pre-Dil Final mL	Default Injection mL	Actual Injection mL	Date
24H2147-01 [SVE EFF]	B383479	1.5	1	N/A	1000	200	150	08/15/24

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

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

Batch B383479 - TO-15 Prep
Blank (B383479-BLK1)

Prepared & Analyzed: 08/15/24

Benzene	ND	0.034
Benzyl chloride	ND	0.069
Bromodichloromethane	ND	0.034
Bromoform	ND	0.034
Bromomethane	ND	0.034
2-Butanone (MEK)	ND	1.4
tert-Butyl Alcohol (TBA)	ND	0.14
Carbon Tetrachloride	ND	0.034
Chlorobenzene	ND	0.034
Chloroethane	ND	0.034
Chloroform	ND	0.034
Chloromethane	ND	0.069
Cyclohexane	ND	0.034
Dibromochloromethane	ND	0.034
1,2-Dibromoethane (EDB)	ND	0.034
1,2-Dichlorobenzene	ND	0.034
1,3-Dichlorobenzene	ND	0.034
1,4-Dichlorobenzene	ND	0.034
Dichlorodifluoromethane (Freon 12)	ND	0.034
1,1-Dichloroethane	ND	0.034
1,2-Dichloroethane	ND	0.034
1,1-Dichloroethylene	ND	0.034
cis-1,2-Dichloroethylene	ND	0.034
trans-1,2-Dichloroethylene	ND	0.034
1,2-Dichloropropane	ND	0.034
cis-1,3-Dichloropropene	ND	0.034
trans-1,3-Dichloropropene	ND	0.034
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	ND	0.034
1,4-Dioxane	ND	0.34
Ethanol	ND	1.4
Ethylbenzene	ND	0.034
Heptane	ND	0.034
Hexachlorobutadiene	ND	0.034
Hexane	ND	1.4
Methyl tert-Butyl Ether (MTBE)	ND	0.034
Methylene Chloride	ND	0.34
4-Methyl-2-pentanone (MIBK)	ND	0.034
Naphthalene	ND	0.034
Styrene	ND	0.034
1,1,2,2-Tetrachloroethane	ND	0.034
Tetrachloroethylene	ND	0.034
Toluene	ND	0.034
1,2,4-Trichlorobenzene	ND	0.034
1,1,1-Trichloroethane	ND	0.034
1,1,2-Trichloroethane	ND	0.034
Trichloroethylene	ND	0.034

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual	
	Results	RL	Results	RL								
Batch B383479 - TO-15 Prep												
Blank (B383479-BLK1)					Prepared & Analyzed: 08/15/24							
Trichlorofluoromethane (Freon 11)	ND	0.14										
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.14										
1,2,4-Trimethylbenzene	ND	0.034										
1,3,5-Trimethylbenzene	ND	0.034										
2,2,4-Trimethylpentane	ND	0.092										
Vinyl Chloride	ND	0.034										
m&p-Xylene	ND	0.069										
o-Xylene	ND	0.034										
Surrogate: 4-Bromofluorobenzene (1)	7.96				8.00		99.5	70-130				
Surrogate: 4-Bromofluorobenzene (2)	6.75				8.00		84.4	70-130				
LCS (B383479-BS1)					Prepared & Analyzed: 08/15/24							
Benzene	4.76				5.00		95.2	70-130				
Benzyl chloride	4.52				5.00		90.4	70-130				
Bromodichloromethane	4.08				5.00		81.6	70-130				
Bromoform	5.75				5.00		115	70-130				
Bromomethane	6.49				5.00		130	70-130				
2-Butanone (MEK)	4.20				5.00		84.0	70-130				
Carbon Tetrachloride	4.32				5.00		86.4	70-130				
Chlorobenzene	4.94				5.00		98.8	70-130				
Chloroethane	5.71				5.00		114	70-130				
Chloroform	5.17				5.00		103	70-130				
Chloromethane	4.53				5.00		90.6	70-130				
Cyclohexane	4.55				5.00		91.0	70-130				
Dibromochloromethane	5.38				5.00		108	70-130				
1,2-Dibromoethane (EDB)	5.01				5.00		100	70-130				
1,2-Dichlorobenzene	6.31				5.00		126	70-130				
1,3-Dichlorobenzene	6.12				5.00		122	70-130				
1,4-Dichlorobenzene	6.74				5.00		135 *	70-130			L-01, V-20	
Dichlorodifluoromethane (Freon 12)	5.43				5.00		109	70-130				
1,1-Dichloroethane	4.35				5.00		87.0	70-130				
1,2-Dichloroethane	4.33				5.00		86.5	70-130				
1,1-Dichloroethylene	4.84				5.00		96.8	70-130				
cis-1,2-Dichloroethylene	4.84				5.00		96.7	70-130				
trans-1,2-Dichloroethylene	4.12				5.00		82.3	70-130				
1,2-Dichloropropane	4.02				5.00		80.5	70-130				
cis-1,3-Dichloropropene	4.28				5.00		85.6	70-130				
trans-1,3-Dichloropropene	5.16				5.00		103	70-130				
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	5.61				5.00		112	70-130				
1,4-Dioxane	6.30				5.00		126	70-130			V-36	
Ethanol	7.01				5.00		140 *	70-130			L-05	
Ethylbenzene	4.58				5.00		91.7	70-130				
Heptane	4.04				5.00		80.8	70-130				
Hexachlorobutadiene	5.67				5.00		113	70-130				
Hexane	4.63				5.00		92.5	70-130				

QUALITY CONTROL
Air Toxics by EPA Compendium Methods - Quality Control

Analyte	ppbv		ug/m3		Spike Level ppbv	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag/Qual
	Results	RL	Results	RL							
Batch B383479 - TO-15 Prep											
LCS (B383479-BS1)					Prepared & Analyzed: 08/15/24						
Methyl tert-Butyl Ether (MTBE)	4.88				5.00		97.5	70-130			V-35
Methylene Chloride	5.09				5.00		102	70-130			
4-Methyl-2-pentanone (MIBK)	4.40				5.00		88.0	70-130			
Naphthalene	5.90				5.00		118	70-130			
Styrene	5.38				5.00		108	70-130			
1,1,2,2-Tetrachloroethane	5.01				5.00		100	70-130			V-36
Tetrachloroethylene	5.54				5.00		111	70-130			
Toluene	4.78				5.00		95.5	70-130			
1,2,4-Trichlorobenzene	5.56				5.00		111	70-130			
1,1,1-Trichloroethane	3.94				5.00		78.8	70-130			
1,1,2-Trichloroethane	5.08				5.00		102	70-130			
Trichloroethylene	4.54				5.00		90.9	70-130			
Trichlorofluoromethane (Freon 11)	5.46				5.00		109	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	6.13				5.00		123	70-130			
1,2,4-Trimethylbenzene	4.87				5.00		97.4	70-130			
1,3,5-Trimethylbenzene	5.69				5.00		114	70-130			
Vinyl Chloride	5.33				5.00		107	70-130			
m&p-Xylene	9.80				10.0		98.0	70-130			
o-Xylene	4.97				5.00		99.3	70-130			
Surrogate: 4-Bromofluorobenzene (1)	8.57				8.00		107	70-130			
LCS (B383479-BS2)					Prepared & Analyzed: 08/15/24						
tert-Butyl Alcohol (TBA)	2.51				2.06		122	70-130			
2,2,4-Trimethylpentane	1.54				1.34		115	70-130			
Surrogate: 4-Bromofluorobenzene (2)	6.98				8.00		87.2	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
m3	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).
L-01	Laboratory fortified blank/laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-05	Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the high side.
V-20	Continuing calibration verification (CCV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-35	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side for this compound. Reported result is estimated.
V-36	Initial calibration verification (ICV) did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

ANALYST

TPH	Thomas P. Hnitecki
KKS	Kyle K. Stuckey
KMC	Kristen M Couture
CMR	Catherine M. Rouleau

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
Initial Cal Check (S106861-ICV1)			Lab File ID: K24A106019.D			Analyzed: 04/15/24 19:46			
Bromochloromethane (1)	87305	2.903	89107	2.903	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	195073	3.527	200182	3.527	97	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	177713	5.142	181661	5.142	98	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	185397	3.534	178600	3.534	104	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	30906	5.144	30158	5.144	102	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
Calibration Check (S109188-CCV1)			Lab File ID: K24A228003.D			Analyzed: 08/15/24 12:08			
Bromochloromethane (1)	58571	2.919	89107	2.903	66	60 - 140	0.0160	+/-0.50	
1,4-Difluorobenzene (1)	170668	3.534	200182	3.527	85	60 - 140	0.0070	+/-0.50	
Chlorobenzene-d5 (1)	152897	5.15	181661	5.142	84	60 - 140	0.0080	+/-0.50	
LCS (B383479-BS1)			Lab File ID: K24A228004.D			Analyzed: 08/15/24 12:36			
Bromochloromethane (1)	57359	2.912	58571	2.919	98	60 - 140	-0.0070	+/-0.50	
1,4-Difluorobenzene (1)	170319	3.534	170668	3.534	100	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	152025	5.15	152897	5.15	99	60 - 140	0.0000	+/-0.50	
Calibration Check (S109188-CCV2)			Lab File ID: K24A228005.D			Analyzed: 08/15/24 13:07			
1,4-Difluorobenzene (2)	160376	3.534	178600	3.534	90	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	28478	5.15	30158	5.144	94	60 - 140	0.0060	+/-0.50	
LCS (B383479-BS2)			Lab File ID: K24A228006.D			Analyzed: 08/15/24 13:37			
1,4-Difluorobenzene (2)	162441	3.534	160376	3.534	101	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	29101	5.144	28478	5.15	102	60 - 140	-0.0060	+/-0.50	
Blank (B383479-BLK1)			Lab File ID: K24A228009.D			Analyzed: 08/15/24 15:13			
Bromochloromethane (1)	57420	2.912	58571	2.919	98	60 - 140	-0.0070	+/-0.50	
1,4-Difluorobenzene (1)	159261	3.534	170668	3.534	93	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (1)	145477	5.15	152897	5.15	95	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	159408	3.534	160376	3.534	99	60 - 140	0.0000	+/-0.50	
Chlorobenzene-d5 (2)	27667	5.143	28478	5.15	97	60 - 140	-0.0070	+/-0.50	
SVE EFF (24H2147-01)			Lab File ID: K24A228023.D			Analyzed: 08/15/24 23:11			
Bromochloromethane (1)	54301	2.919	58571	2.919	93	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (1)	164072	3.541	170668	3.534	96	60 - 140	0.0070	+/-0.50	
Chlorobenzene-d5 (1)	151604	5.15	152897	5.15	99	60 - 140	0.0000	+/-0.50	
1,4-Difluorobenzene (2)	164164	3.541	160376	3.534	102	60 - 140	0.0070	+/-0.50	
Chlorobenzene-d5 (2)	28788	5.144	28478	5.15	101	60 - 140	-0.0060	+/-0.50	

CONTINUING CALIBRATION CHECK

EPA TO-15

S109188-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	5.00	4.69	0.8125705	0.7616003		-6.3	30
Benzyl chloride	A	5.00	4.34	0.6050113	0.6103769		-13.2	30
Bromodichloromethane	A	5.00	4.15	0.6600421	0.5476645		-17.0	30
Bromoform	A	5.00	5.87	0.4582029	0.5376168		17.3	30
Bromomethane	A	5.00	6.31	0.5997196	0.7573441		26.3	30
2-Butanone (MEK)	A	5.00	4.01	1.437234	1.153253		-19.8	30
Carbon Tetrachloride	A	5.00	4.46	0.5360304	0.4776244		-10.9	30
Chlorobenzene	A	5.00	4.88	0.8437425	0.8232156		-2.4	30
Chloroethane	A	5.00	5.51	0.3972731	0.4380325		10.3	30
Chloroform	A	5.00	5.05	1.488916	1.50316		1.0	30
Chloromethane	A	5.00	4.46	0.7669907	0.684325		-10.8	30
Cyclohexane	A	5.00	4.37	0.3462023	0.3024445		-12.6	30
Dibromochloromethane	A	5.00	5.30	0.5803333	0.6154836		6.1	30
1,2-Dibromoethane (EDB)	A	5.00	4.99	0.559033	0.5580227		-0.2	30
1,2-Dichlorobenzene	A	5.00	6.16	0.5815736	0.7166027		23.2	30
1,3-Dichlorobenzene	A	5.00	5.96	0.6669087	0.7947102		19.2	30
1,4-Dichlorobenzene	A	5.00	6.67	0.5759686	0.768172		33.4	30 *
Dichlorodifluoromethane (Freon 12)	A	5.00	5.26	1.759801	1.85009		5.1	30
1,1-Dichloroethane	A	5.00	4.23	1.482462	1.253808		-15.4	30
1,2-Dichloroethane	A	5.00	4.21	1.048043	0.8824026		-15.8	30
1,1-Dichloroethylene	A	5.00	4.58	1.292964	1.183739		-8.4	30
cis-1,2-Dichloroethylene	A	5.00	4.66	1.006326	0.9376381		-6.8	30
trans-1,2-Dichloroethylene	A	5.00	4.03	1.230032	0.990497		-19.5	30
1,2-Dichloropropane	A	5.00	3.96	0.3627084	0.2875384		-20.7	30
cis-1,3-Dichloropropene	A	5.00	4.48	0.4994679	0.4470246		-10.5	30
trans-1,3-Dichloropropene	A	5.00	4.62	0.362027	0.3347318		-7.5	30
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	A	5.00	5.88	1.741838	2.047785		17.6	30
1,4-Dioxane	A	5.00	5.79	0.1289199	0.1491926		15.7	30
Ethanol	A	5.00	6.27	0.1510718	0.189418		25.4	30
Ethylbenzene	A	5.00	4.63	1.341114	1.242321		-7.4	30
Heptane	A	5.00	3.92	0.2939088	0.2306701		-21.5	30
Hexachlorobutadiene	A	5.00	5.61	0.3974328	0.4459159		12.2	30
Hexane	A	5.00	4.34	0.7974254	0.6927387		-13.1	30
Methyl tert-Butyl Ether (MTBE)	A	5.00	4.67	1.842859	1.722491		-6.5	30
Methylene Chloride	A	5.00	4.79	0.8905306	0.8530638		-4.2	30
4-Methyl-2-pentanone (MIBK)	A	5.00	4.31	0.2515395	0.2167108		-13.8	30
Naphthalene	A	5.00	5.70	0.7696101	0.8775895		14.0	30
Styrene	A	5.00	5.24	0.6931352	0.7263033		4.8	30

CONTINUING CALIBRATION CHECK

EPA TO-15

S109188-CCV1

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1,2,2-Tetrachloroethane	A	5.00	5.22	0.7949978	0.8294106		4.3	30
Tetrachloroethylene	A	5.00	5.42	0.4393819	0.4758968		8.3	30
Toluene	A	5.00	4.68	1.064963	0.9959227		-6.5	30
1,2,4-Trichlorobenzene	A	5.00	5.28	0.3145178	0.3324486		5.7	30
1,1,1-Trichloroethane	A	5.00	4.03	0.5920208	0.4769588		-19.4	30
1,1,2-Trichloroethane	A	5.00	5.11	0.3639298	0.3718686		2.2	30
Trichloroethylene	A	5.00	4.49	0.382826	0.3438348		-10.2	30
Trichlorofluoromethane (Freon 11)	A	5.00	5.26	1.690812	1.778081		5.2	30
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	A	5.00	5.95	1.343977	1.599044		19.0	30
1,2,4-Trimethylbenzene	A	5.00	4.86	1.072241	1.04158		-2.9	30
1,3,5-Trimethylbenzene	A	5.00	5.47	0.9923743	1.086473		9.5	30
Vinyl Chloride	A	5.00	5.19	0.7854419	0.8148196		3.7	30
m&p-Xylene	A	10.0	9.64	1.08204	1.043275		-3.6	30
o-Xylene	A	5.00	4.91	1.04291	1.024093		-1.8	30

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

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA TO-15

S109188-CCV2

COMPOUND	TYPE	CONC. (ppbv)		RESPONSE FACTOR			% DIFF / DRIFT	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
tert-Butyl Alcohol (TBA)	A	2.06	2.44	0.737951	0.8732392		18.3	30
2,2,4-Trimethylpentane	A	1.34	1.44	1.608157	1.734097		7.8	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>	
Benzene	FL,NJ,NY,ME,NH,VA
Benzyl chloride	FL,NJ,NY,ME,NH,VA
Bromodichloromethane	NJ,NY,ME,NH,VA
Bromoform	NJ,NY,ME,NH,VA
Bromomethane	FL,NJ,NY,ME,NH
2-Butanone (MEK)	FL,NJ,NY,ME,NH,VA
tert-Butyl Alcohol (TBA)	NY,ME,NH
Carbon Tetrachloride	FL,NJ,NY,ME,NH,VA
Chlorobenzene	FL,NJ,NY,ME,NH,VA
Chloroethane	FL,NJ,NY,ME,NH,VA
Chloroform	FL,NJ,NY,ME,NH,VA
Chloromethane	FL,NJ,NY,ME,NH,VA
Cyclohexane	NJ,NY,ME,NH,VA
Dibromochloromethane	NY,ME,NH
1,2-Dibromoethane (EDB)	NJ,NY,ME,NH
1,2-Dichlorobenzene	FL,NJ,NY,ME,NH,VA
1,3-Dichlorobenzene	NJ,NY,ME,NH
1,4-Dichlorobenzene	FL,NJ,NY,ME,NH,VA
Dichlorodifluoromethane (Freon 12)	NY,ME,NH
1,1-Dichloroethane	FL,NJ,NY,ME,NH,VA
1,2-Dichloroethane	FL,NJ,NY,ME,NH,VA
1,1-Dichloroethylene	FL,NJ,NY,ME,NH,VA
cis-1,2-Dichloroethylene	FL,NY,ME,NH,VA
trans-1,2-Dichloroethylene	NJ,NY,ME,NH,VA
1,2-Dichloropropane	FL,NJ,NY,ME,NH,VA
cis-1,3-Dichloropropene	FL,NJ,NY,ME,NH,VA
trans-1,3-Dichloropropene	NY,ME,NH
1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114)	NJ,NY,ME,NH,VA
1,4-Dioxane	NJ,NY,ME,NH,VA
Ethylbenzene	FL,NJ,NY,ME,NH,VA
Heptane	NJ,NY,ME,NH,VA
Hexachlorobutadiene	NJ,NY,ME,NH,VA
Hexane	FL,NJ,NY,ME,NH,VA
Methyl tert-Butyl Ether (MTBE)	FL,NJ,NY,ME,NH,VA
Methylene Chloride	FL,NJ,NY,ME,NH,VA
4-Methyl-2-pentanone (MIBK)	FL,NJ,NY,ME,NH
Naphthalene	NY,ME,NH
Styrene	FL,NJ,NY,ME,NH,VA
1,1,2,2-Tetrachloroethane	FL,NJ,NY,ME,NH,VA
Tetrachloroethylene	FL,NJ,NY,ME,NH,VA
Toluene	FL,NJ,NY,ME,NH,VA
1,2,4-Trichlorobenzene	NJ,NY,ME,NH,VA
1,1,1-Trichloroethane	FL,NJ,NY,ME,NH,VA
1,1,2-Trichloroethane	FL,NJ,NY,ME,NH,VA
Trichloroethylene	FL,NJ,NY,ME,NH,VA
Trichlorofluoromethane (Freon 11)	NY,ME,NH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NJ,NY,ME,NH,VA

CERTIFICATIONS**Certified Analyses included in this Report**

Analyte	Certifications
<i>EPA TO-15 in Air</i>	
1,2,4-Trimethylbenzene	NJ,NY,ME,NH
1,3,5-Trimethylbenzene	NJ,NY,ME,NH
2,2,4-Trimethylpentane	NJ,NY,ME,NH,VA
Vinyl Chloride	FL,NJ,NY,ME,NH,VA
m&p-Xylene	FL,NJ,NY,ME,NH,VA
o-Xylene	FL,NJ,NY,ME,NH,VA

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

Code	Description	Number	Expires
NY	New York State Department of Health	10899 NELAP	04/1/2025
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2025
NJ	New Jersey DEP	MA007 NELAP	06/30/2025
FL	Florida Department of Health	E871027 NELAP	06/30/2025
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2024

	DC#_Title: ENV-FRM-ELON-0009 v04_Air Sample Receiving Checklist
	Effective Date: 07/13/2023

Log In Back-Sheet

Client EAR
 Project 123 Post Ave
 MCP/RCP Required —
 Deliverable Package Requirement CAT13
 Location 123 POST Ave
 PWSID# (When Applicable) —
 Arrival Method Courier
 Received By / Date / Time TPH 8-15-24 0825
 Back-Sheet By / Date / Time TPH 8-15-24 1000
 Temperature Method — # —
 Temp $\leq 6^{\circ}\text{C}$ Actual Temperature —
 Rush Samples: Yes No Notify —
 Short Hold: Yes No Notify —

Notes regarding Samples/COC outside of SOP:

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

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

Container	#	Size	Regulator	Duration	Accessories			
Summa Cans	1	6L	1	30min	Nut/Ferrule		IC Train	
Tedlar Bags					Tubing			
TO-17 Tubes					T-Connector		Shipping Charges	
Radiello					Syringe			
Pufs/ TO-11					Tedlar			

Can #'s	5	10	15	Regs #'s	5	10	15
1 00571	6	11	16	1 4677	6	11	16
2	7	12	17	2	7	12	17
3	8	13	18	3	8	13	18
4	9	14	19	4	9	14	19
Unused Media	4	9	14	Pufs/TO-17's	5	10	15
1	5	10	15	1	6	11	16
2	6	11	16	2	7	12	17
3	7	12	17	3	8	13	18
4	8	13	18	4	9	14	19



Air Sampling Media Certificate of Analysis

Date Analyzed: 7/17/2024 Batch #: 24CC0573

Certification Type: Batch Certified ☒ Individual Certified ☐

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BCP0571

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	1,1,2,2-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: KMC 8/19/24