EA Engineering, P.C. and Its Affiliate
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18 April 2022

Mr. Payson Long
New York State Department of Environmental Conservation
Division of Environmental Remediation
Bureau of Eastern Remedial Action
625 Broadway
Albany, New York 12233

RE: National Heatset Printing Site
Operation & Maintenance and Monitoring Report (January–March 2022)
Soil Vapor Extraction System Monitoring
1 Adams Boulevard, Town of Babylon, New York
New York State Department of Environmental Conservation Site No. 152140
EA Project No. 1602518

Dear Mr. Long:

This letter report provides an overview of the ongoing operation of the site soil vapor extraction [SVE] system at the National Heatset Printing Site in the Town of Babylon, New York (Figure 1). EA Engineering, P.C. and its affiliate EA Science and Technology (EA) initially assumed management of the onsite SVE system under New York State Department of Environmental Conservation (NYSDEC) Work Assignment No. D004441-29 in 2007. EA performed site management for the site from 2007 to February 2020 under multiple contracts; Environmental Assessments and Remediation [EAR] performed site management from March to December 2020. EA is currently performing site management under NYSDEC Work Assignment No. D009806-18, which was approved on 18 November 2020. EA's assignment includes quarterly visits for the SVE system, quarterly system air sampling, and every fifth quarter groundwater sampling. The activities are being conducted under the NYSDEC State Superfund Standby Contract. Remedial system details are presented in the NYSDEC-approved Site Management Plan,[1] which includes the Operation & Maintenance (O&M) Manual for each system.

The Site Visit and SVE System Maintenance Log table shows dates during the reporting period (January–March 2022), that an O&M or site visit was performed.

[1] EA. 2022. *National Heatset Printing Co. State Superfund Site, Suffolk County, Town of Babylon, New York. Site Management Plan – Revision 1. Draft.* January.

Site Visit and SVE System Maintenance Log

Date	Purpose	Personnel
1/18/2022	Quarterly visit. Conducted O&M on SVE System. Collected quarterly vapor samples from the SVE system.	EA
2/1/2022	Site visit to inspect system after inclement weather. Shut down SVE System due to loud noise coming from motor.	EA
2/3/2022	Follow up site visit. Blower removal from SVE system.	EA, D&D
3/22/2022	Follow up site visit. Installation of repaired blower and SVE System restart.	EA, D&D

Quarterly vapor samples were collected from the SVE System on 18 January 2022.

1. SOIL VAPOR EXTRACTION SYSTEM OPERATION

1.1 SOIL VAPOR EXTRACTION

The SVE system was operational for a total of 962.5 hours out of an available 2,136 hours (45 percent of the total available) from January through March 2022. Quarterly O&M was performed on the SVE System on 18 January 2022. The system was shut down on 1 February 2022 due to blower issues. The blower for the SVE System was removed on 3 February 2022 for repairs. The repaired blower was re-installed and the SVE System was restarted on 22 March 2022.A summary of the operational time associated with the SVE system is presented in Table 1. The location of the SVE system and associated monitoring wells are presented in Figure 2.

2. SOIL VAPOR EXTRACTION SYSTEM PERFORMANCE MONITORING

2.1 SOIL VAPOR EXTRACTION SYSTEM

Operational data for this period have been based on the system measurements and vapor sample data collected during the January 2022 quarterly visit. EA operated the SVE system with all five legs. The average SVE blower flow rate for this period when the system was running was 250 cubic feet/minute, at an average applied vacuum of 61 inches of water. Vapor points at 1 Adams Boulevard were monitored during the January 2022 quarterly O&M visit. Vapor point monitoring data is included on the system data sheets, provided in Attachment A. A complete set of operational data collected is presented in Table 2A.

3. RESULTS

3.1 SOIL VAPOR EXTRACTION SYSTEM

The SVE System air samples were collected on 18 January 2022 as part of the quarterly monitoring event. EA personnel collected 4-hour composite air samples from the system influent and effluent using Summa® canisters and submitted the samples to Chemtech for analysis for VOCs via EPA Method TO-15. Based on the effluent sampling results, a negligible amount of tetrachloroethene (PCE), trichloroethene (TCE), and dichloroethene (DCE) has been discharged during the Year 2022 toward the permitted annual discharge limits of 270 pounds (lb), 120 lb, and 5,510 lb, respectively. A summary of the field monitoring results, laboratory air discharge analytical results, and estimated mass recovery are presented in Table 2A; the laboratory data reports are presented in Attachment B.

4. CONCLUSIONS AND RECOMMENDATIONS

Based on the data collected from the remediation systems and site groundwater during this reporting period, EA recommends continued operation of the SVE system. Both Onsite DDC Systems and the Offsite DDC System have been shut down and remain off, as recommended in the Corrective Measures Work Plan prepared by EA (EA 2022) and approved by NYSDEC. A Remedial Site Optimization Work Planhas been prepared by EA to detail proposed remedial site optimization field activities.

Please do not hesitate to contact me at 315-565-6557 with any questions you might have regarding this report.

Sincerely,

EA SCIENCE AND TECHNOLOGY

Megan Miller

Megan Miller, EIT
Project Manager

Figures

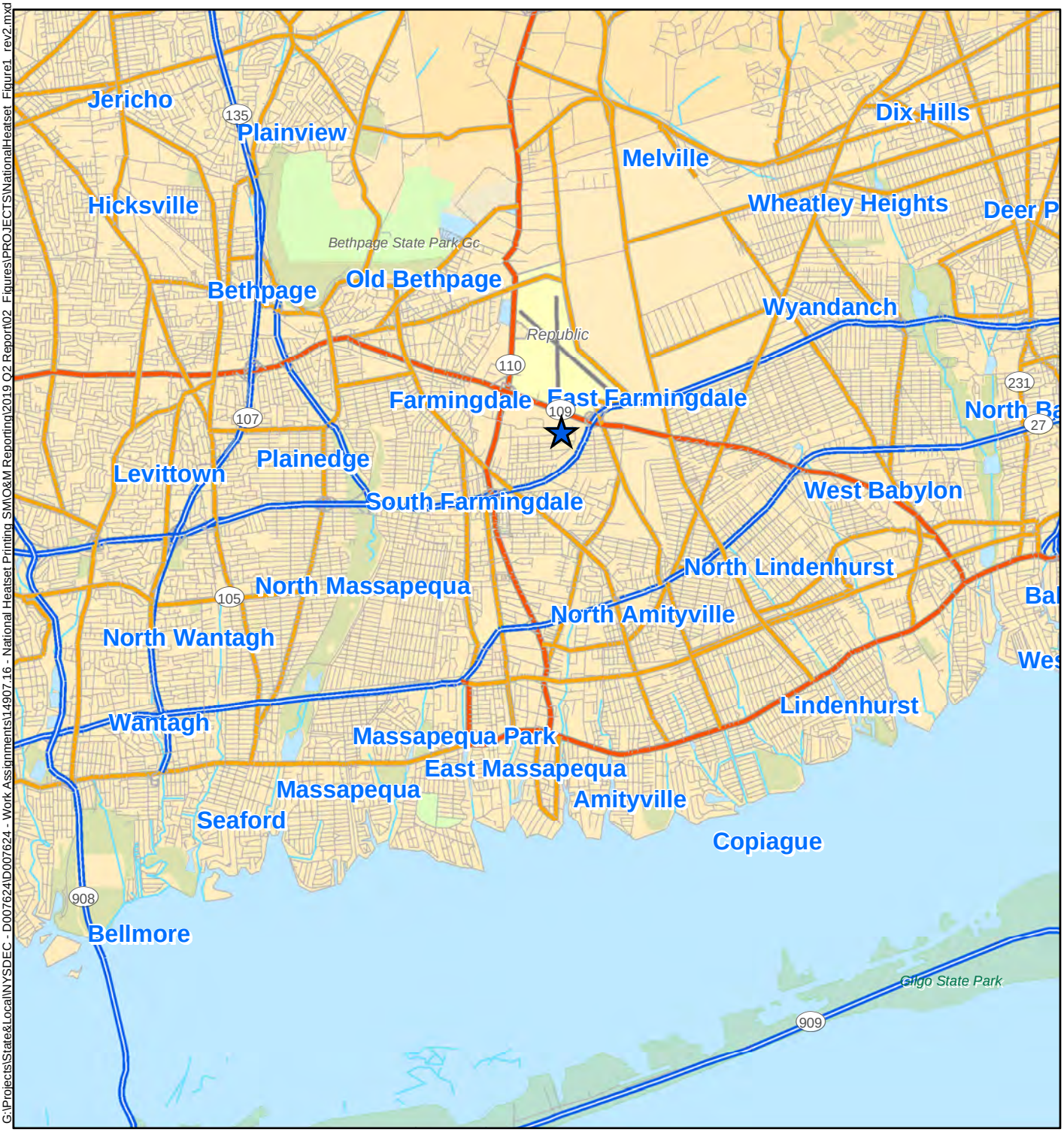
1 Site Location Map

2 Onsite Treatment System Location SVE System

Tables

Attachments

Figures



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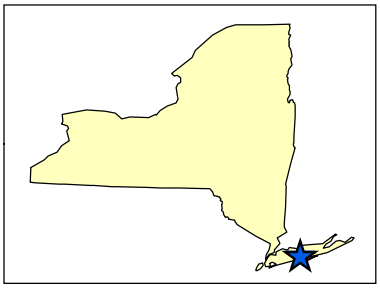

0 0.5 1 2
Miles

1 inch = 1.5 miles

N

Legend

★ Site Location

Figure 1
SITE LOCATION MAP
NATIONAL HEATSET SITE (152140)
BABYLON, NEW YORK
SUFFOLK COUNTY

Map Date: 1/27/2020
Source: ESRI, 2011

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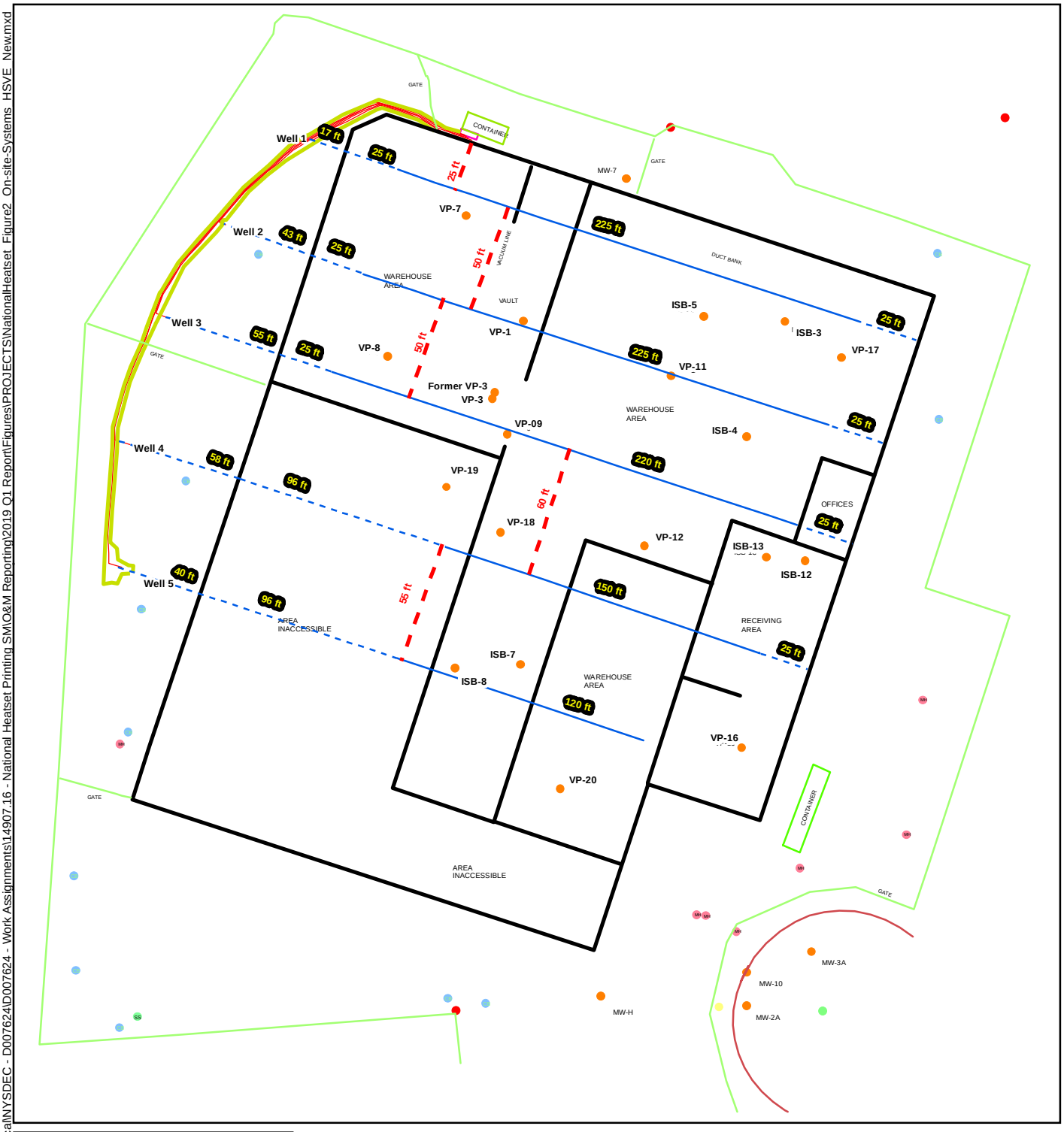

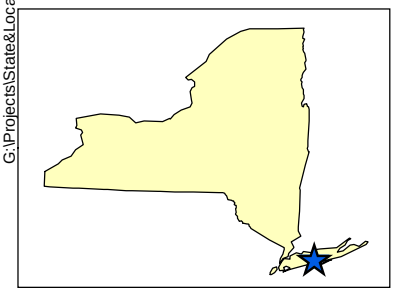

0 15 30 60
Feet

1 inch = 66.67 feet

N

Legend

- HSVE Solid PVC Pipe
- HSVE Well Screen
- HSVE Well Piping (EA Installed)
- HSVE Trench
- HSVE Manifold Shed
- 1 Adams Blvd Building Outline
- Site Location
- [redacted]Catch Basin Square
- [redacted]Catch Basin Round
- [redacted]Manhole
- [redacted]Sanitary Manhole
- [redacted]Soil Boring / Vapor Point
- [redacted]Soil Boring
- [redacted]Monitoring Well
- [redacted]Chainlink Fence

Figure 2
ONSITE TREATMENT SYSTEM LOCATION
SVE System
NATIONAL HEATSET SITE (152140)
BABYLON, NEW YORK
SUFFOLK COUNTY

Map Date: 1/27/2020
Source: ESRI, 2011

[redacted]

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alls

Tables

Table 1 Treatment System Runtime

System Readings						
		SVE System				
		SVE Blower				
Date	Notes	Meter Reading (Hrs)	Time	Elapsed Runtime (Hrs)	Elapsed Available (Hrs)	Runtime (%)
04/19/21	A	52126.32	11:27	578	598	97
05/19/21	A	52845.88	11:01	720	720	100
06/15/21	A	53493.89	11:00	648	648	100
Quarterly Run-Time[2]				**1946**	**1966**	**99.0**
07/20/21	A	54335.73	11:27	842	840	100
08/18/21	A	55030.79	12:00	695	697	100
09/22/21	A	55876.33	17:32	846	846	100
Quarterly Run-Time[2]				**2382**	**2383**	**100.0**
10/20/21	A	56544.17	13:23	668	668	100
11/18/21	A	57236.03	8:14	692	691	100
12/14/21		57863.23	12:02	627	628	100
Quarterly Run-Time[2]				**1987**	**1987**	**100.0**
01/18/22		58700.35	9:06	837	837	100
Quarterly Run-Time[2]				**837**	**838**	**99.9**

--- = N/A
A = SVE System down upon arrival; High high water level alarm

Shaded cells indicate O&M events performed during a previous reporting period.

Table 2 Summary of Estimated Recovery Rate via Soil Vapor Extraction System

Date	Field/System Data			Elapsed Run-Time (day)	Laboratory Results						Mass Discharged						Recovery based on Laboratory Results					
					SYS INFLUENT			SYS EFFLUENT														
	SVE Blower Flow Rate (cfm)	Applied Vacuum (in. H_20)	System Discharge VOC Concentration (ppmv)		PCE (mg/m^3)	TCE (mg/m^3)	*cis* -1,2-DCE (mg/m^3)	PCE (mg/m3)	TCE (mg/m3)	*cis* -1,2-DCE (mg/m3)	PCE Discharge During Period: lb/hr	PCE Discharge During Period (lb)	TCE Discharge During Period (lb/hr)	TCE Discharge During Period (lb)	*cis* -1,2-DCE Discharge During Period (lb/hr)	*cis* -1,2-DCE Discharge During Period (lb)	PCE Recovery During Period: lb/hr	PCE Recovery During Period (lb)	TCE Recovery During Period (lb/hr)	TCE Recovery During Period (lb)	*cis* -1,2-DCE Recovery During Period (lb/hr)	*cis* -1,2-DCE Recovery During Period (lb)
04/14/20	343	75	0.00	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/07/20	188	74	0.01	23	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/04/20	200	74	0.00	28	0.01	0.01	0.01	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.0000	0.0000	0.0000	0.0000	0.000	0.0000
07/09/20	176	72	0.00	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
08/03/20	172	--	0.00	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/02/20	141	--	0.10	30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/06/20	21	70	0.00	34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
11/04/20	198	76	0.20	29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/08/20	--	--	--	34	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/26/21	160	80	0.12	49	0.1490	0.0097	0.00595	0.01080	0.0008	0.0075	0.0000	0.0000	0.0000	0.0061	0.0000	0.0546	0.0001	1.0023	0.0000	0.0643	0.0000	-0.0012
02/24/21	160	80	0.02	29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/25/21	160	80	0.01	29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
04/19/21	173	75	0.00	25	0.0062	0.0011	0.0031	0.0052	0.0003	0.0166	0.0000	0.0086	0.0000	0.0004	0.00001	0.0275	0.0000	0.0017	0.0000	0.0013	0.0000	-0.0224
05/19/21	250	70	0.00	30	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06/15/21	250	68	0.00	27	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
07/20/21	250	67	0.00	35	0.0024	0.0016	0.0048	0.0011	0.0002	0.0103	0.0000	0.0024	0.0000	0.0004	0.00001	0.0229	0.0000	0.0082	0.0000	0.0031	0.0000	-0.0123
08/18/21	250	16	0.00	29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
09/22/21	250	64	0.00	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/20/21	250	64	0.00	28	0.0841	0.0086	0.0075	0.0026	0.0002	0.0159	0.0000	0.0048	0.0000	0.0003	0.00001	0.0297	0.0000	0.0092	0.0000	0.0158	0.0000	-0.0156
11/18/21	250	60	0.00	29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
12/14/21	250	51	0.00	26	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
01/18/22	250	61	0.00	35	0.0115	0.0048	0.0052	0.00	0.00	0.00	0.0000	0.0008	0.0000	0.0002	0.00000	0.0022	0.0000	0.0048	0.0000	0.0051	0.0000	0.0035
02/01/22	--	--	--	14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
03/22/22	--	--	--	0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
											PERIOD TOTALS =	**0.0008**		**0.0002**		**0.0022**		**0.0048**		**0.0051**		**0.0035**

NOTES:
- SVE = Soil vapor extraction
- cfm = Cubic foot (feet) per minute
- in. H_20 = Inch(es) of water
- ppmv = Part(s) per million (vol./vol.)
- mg/m^3 = Milligram(s) per cubic meter
- lb = Pound(s)
- lb/hr = Pound(s) per hour
- PCE = Tetrachloroethylene
- TCE = Trichloroethene
- *cis* -1,2-DCE = cis-1,2-Dichloroethene

Mass Recovery (Lab Res., lb/hr) = flow (cfm)*effluent conc. (mg/cu. m.)*1g/1000mg*1lb/453.6g*1cu. m./35.31cu. ft*60min/1 hr
Mass Recovery (Lab Res., lb) = Discharge Rate (lb/hr) * # of days*24hours/day
Permit limit for PCE is 0.031 lb/hr and 270 lb/yr; TCE is 0.014 lb/hr and 120 lb/year; cis-1,2-DCE is 0.63 lb/hr and 5,510 lb/year
Shaded cells indicate O&M events performed during a previous reporting period.
**Flow rates for Quarter 2 2021 are estimated as the maximum value which the flowmeter is capable of .

Attachment A

System Data Sheets

National Heatset Printing

1 Adams Boulevard, Farmingdale, New York

EA Engineering

Personnel: D. Howe
Weather: 32°, Mostly Sunny

Time: 0906
Date: 1/18/2022

System Status:
Arrival: Running
Departure: Running
Run Timer Reading: 58700.35

System Data:
Dilution Valve: % Open
Well Legs Running (circle): (1) (2) (3) (4) (5)

Blower Inlet (Extraction Well)			Blower Outlet / Carbon Influent			Mid			SVE Effluent		
Flow:	*	CFM	Flow:	161.33	CFM	Flow:	182.58	CFM	Flow:	180.13	CFM
Vacuum:	61	"H2O	PID Reading:	375.2	PPB	PID Reading:	22.4	PPB	PID Reading:	0	PPB
Temperature:	149	°F	Temperature:	143.3	°F	Temperature:	124.9	°F	Temperature:	112.5	°F

Carbon Monitoring:
Pre: 375.2 PPB
Mid: 22.4 PPB
Effluent: 0 PPB

Carbon influent & effluent sample collected & shipped to lab? Yes

Knockout Tank Drained? NO
Gallons: 0

Monitoring Well Gauging / Vapor Point Monitoring:

Well/V.P. ID:	MW-G	MW-E	VP-1	VP-2	VP-3	VP-3 (Former)	VP-7	VP-8	VP-9	VP-10	VP-11	VP-12	VP-13	VP-14	VP-15
PID (ppb)			0		54	6	45	16		41	31	12	0		
Diff. Pressure (in. H2O)			0		-.621	0.015	-.271	-1.091		-.452	-.297	-.381	-.103		

Well/V.P. ID:	VP-16	VP-17	VP-18	VP-19	VP-20
PID (ppb)	**	622	355	**	740
Diff. Pressure (in. H2O)	**	-.106	-.532	**	-.167

Comments: * Flow outside range of VelociCalc
** Vapor point covered and inaccessible

SVE Blower Hours: 58700.35		
Date: 1/18/2022		
Time: 0906		
Well ID	**Flow**	**PID**
5	123.11	647
4	80.73	356
3	345.68	2794
2	176.38	2957
1	90.61	1171
Combined Influent		
Combined Effluent		

O&M DATA SHEET - NATIONAL HEATSET - ON-SITE SYSTEM #1

Date: 1/18/2022 Time: 0945 Weather: 34°, Mostly Sunny

Treatment System #1 Status on Arrival: Up / Down / (OFF)

Alarm Light Status on Arrival: ON / (OFF) Alarm Light Reset on Arrival: YES / (NO)

SYSTEM OPERATING DATA

ID	Hours	Blower Speed
Hours	49954.1	Hz

Temperature Monitoring

Time	Location	TI-ID	Tempurature deg. C	Temperature deg. F	Comments
1240	Extracted From Well	TI-01			DDC-1
1240	Extracted From Well	TI-02			DDC-2
1241	Pre-Heater Outlet	TI-03			Post Shell and Tubing
1241	Pre-Heater Input	TI-04			Before Shell and Tubing
1242	After Cooler Outlet	TI-05			Post Cooler Reading
1242	After Cooler Input	TI-06			Before Cooler Reading
1243	Blower Outlet	TI-07			Going to Pre-heater
1243	Between GAC Units	TI-08			After GAC #1
1244	GAC Unit Output	TI-09			After GAC #2

Pressure/Vacuum Monitoring

Time	Location	PI/VI-ID	Pressure	Comments
1250	Discharge to Well	PI-01		DDC-1
1250	Discharge to Well	PI-02		DDC-2
1250	Drum	PI-03	in. H2O	Vacuum Reading to Blower

FLOW RATES

Time	Location	IF-ID	Flow (SCFM)	Comments
1240	Extracted From DDC-1	FI-01		
1240	Extracted From DDC-2	FI-02		

VOC Monitoring (ppb)

Time	Location	PID VOC (ppb)	Temp. (F)	COMMENTS
1250	Influent			
1250	Between Vessels			
1251	Effluent			

System Observations

Water Column in DDC Wells

Well ID	Comments
DDC-1	Bubbling in well is sufficient
DDC-2	Bubbling in well is sufficient

Sump Inspection

Well ID	Comments
DDC-1	No sump associated with well
DDC-2	No water observed in sump

Additional Comments/Reccommendations

System OFF

O&M DATA SHEET - NATIONAL HEATSET - ON-SITE SYSTEM #2

Date: 1/18/2022 Time: 1030 Weather: Sunny, 34°

Treatment System #2 Status on Arrival: UP / Down / (Off)

Alarm Light Status on Arrival: ON / (OFF) Alarm Light Reset on Arrival: YES / (NO)

SYSTEM OPERATING DATA

ID	Hours	Blower Speed
Hours	67048.4	

Temperature Monitoring

Time	Location	TI-ID	Temperature deg. C	Temperature deg. F	Comments
1020	Carbon Unit Inlet	CA01			Carbon Unit #1
1020	Pre-Heater	PHA01			After Shell and Tubing
1020	Blower Panel	B01			Exiting Blower
1020	After Cooler Outlet	AC01			Post Cooler Piping
1020	Pre-Heater	PHB01			Before Shell and Tubing

Pressure/Vacuum Monitoring

Time	Location	PI/VI-ID	Pressure	Comments
1020	Knock-Out Tank	T01	0	Vacuum gauge on knock-out tank
1020	Carbon-Unit #1 Outlet	CA1	in. Hg	Vacuum exiting GAC #1
1020	Discharge to Wells	WD2	PSI	Pressure before splicing off to both wells
1020	Blower Panel	BP01	in. Hg	Vacuum coming off of blower
1020	Carbon Unit #2 Outlet	CA2	in. Hg	Vacuum exiting GAC #2
1020	DDC-3	N/A	PSI	Pressure gauge on well head
1020	DDC-4	N/A	PSI	Pressure gauge on well head

FLOW RATES

Time	Location	IF-ID	Flow (SCFM)	Comments
1042	Injected to DDC-3	WD01		
1342	Injection to DDC-4	WD02		

VOC Monitoring (ppb)

Time	Location	PID VOC (ppb)	Temp. (F)	COMMENTS
1050	Influent #1			
1050	Influent #2			
1050	Effluent			

System Observations

Water Column in DDC Wells

Well ID	Comments
DDC-3	Bubbling in well is sufficient
DDC-4	Bubbling in well is sufficient

Sump Inspection

Well ID	Comments
DDC-3	No water pooled in well
DDC-4	No water pooled in well

Additional Comments/Reccommendations

System OFF

O&M DATA SHEET - NATIONAL HEATSET - OFF-SITE SYSTEM

Date: 1/18/2022 Time: 1045 Weather: 35°, Mostly Sunny

B-501 Status on Arrival: Up / Down / OFF B-502 Status on Arrival: UP / Down / Off

Alarm Light Status on Arrival: ON / OFF Alarm Light Reset on Arrival: YES / NO

SYSTEM OPERATING DATA

ID	B-501	TP-211	B-502	TP-212	B-503	TP-213	Time
Hours	33831.4	4.2	35551.1	41.4	0	0	~~12:55~~ 1045
VI-501			IWC	VI-502			IWC
SP-501			ppb / ppm	SP-502			ppb / ppm
TI-501			°F	TI-502			°F
VI-501A			IWC	VI-502A			IWC

INJECTION& EXTRACTION MANIFOLD OPERATING DATA

Well ID	4" - INJECTION		6" - EXTRACTION		
	Temp (°F)	Pressure (PSI)	Temp (°F)	Flow (CFM)	VOCs (ppb or ppm)
DDC-05					
DDC-10					
DDC-09					
DDC-08					
DDC-07					
DDC-06					

DDC WELLHEAD OPERATING DATA

WELL ID	PZ SHALLOW (FT)	PZ DEEP (FT)	Air Space (FT)	COMMENTS	MW ID	DTW (FT)
DDC-05				Good bubbling	MW-1D	N/A
DDC-10				Good Bubbling	MW-1S	N/A
DDC-09				Good bubbling	MW-2D	N/A
DDC-08				Good bubbling	MW-2S	N/A
DDC-07				Good bubbling	MW-3D	N/A
DDC-06				Good bubbling	MW-3S	N/A

AIR SAMPLING DATA

B-501			B-502		
Sample Port Position	SAMPLE PORT ID	VOC Reading (ppb / ppm)	Sample Port Position	SAMPLE PORT ID	VOC Reading (ppb / ppm)
Influent	SP-401B		Influent	SP-402B	
Intermediate #1	SP-403B		Intermedia	SP-403A	
Intermediate #2	SP-401A		Intermedia	SP-402A	
Effluent	SP-501		Effluent	SP-502	

CHILLER	
Set Temp. (°F)	NA
Actual Temp. (°F)	NA
Pump Pressure (PSI)	NA
Freon High Pres. (PSI)	NA
Freon Low Pres. (PSI)	NA

TECHNICIAN COMMENTS/NOTES:

System OFF

1/18/2022

Heatset O&M Well Gauging		
Onsite		
Well ID	DTW (ft)	TD (ft)
MW-1S	15.52	30.39
MW-1D	15.70	81.40
Offsite		
Well ID	DTW (ft)	TD (ft)
MW-1S		
MW-1D		
DDC-5S		
DDC-5D		
DDC-6S		
DDC-6D		
DDC-7S		
DDC-7D		
DDC-8S		
DDC-8D		
DDC-9S		
DDC-9D		
DDC-10S		
DDC-10D		

* Offsite wells not gauged because system is OFF.

Attachment B

Laboratory Analytical Data – System Vapor Samples

CHEMTECH

ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS

PROJECT NAME : NYSDEC - NATIONAL HEATSET TO-15

EA ENGINEERING SCIENCE & TECHNOLOGY

269 W. Jefferson Street

Syracuse, NY - 13202

Phone No: 315-431-4610

ORDER ID : N1211

ATTENTION : Emily Cummings

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
FORM S-I

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

NYSDEC Sample ID/Code	Laboratory Sampl ID/Code	VOA GC/MS (Method #)	BNA GC/MS (Method #)	VOA GC (Method #)	Pest PCBs (Method #)	Metals (Method #)	Other (Method #)
SVE-INFLUENT	N1211-01	TO-15					
SVE-EFFLUENT	N1211-02	TO-15					

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-IIb

SAMPLE PREPARATION AND ANALYSIS SUMMARY VOLATILE (VOA) ANALYSES

Laboratory Sample ID	Matrix	Date Collected	Date Rec'd at Lab	Date Extracted	Date Analyzed
N1211-01	Air	01/17/22	01/20/22		01/24/22
N1211-02	Air	01/17/22	01/20/22		01/24/22

*** Details For Test :** TO-15

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

FORM S-III

SAMPLE PREPARATION AND ANALYSIS SUMMARY MISCELLANEOUS ORGANIC ANALYSES

Laboratory Sample ID	Matrix	Analytical Protocol	Extraction Method	Auxiliary Cleanup	Dil/Conc Factor
N1211-01	Air	TO-15	NA		
N1211-02	Air	TO-15	NA		

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Cover Page

Order ID : N1211

Project ID : NYSDEC - National Heatset TO-15

Client : EA Engineering Science & Technology

Lab Sample Number	Client Sample Number
N1211-01	SVE-INFLUENT
N1211-02	SVE-EFFLUENT

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 : N. N. Pandya

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 12:14 pm, Feb 03, 2022

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

EA Engineering Science & Technology
Project Name: NYSDEC - National Heatset TO-15
Project # N/A
Chemtech Project # N1211
Test Name: TO-15

A. Number of Samples and Date of Receipt:
2 Air samples were received on 01/20/2022.

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

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

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

The RPD for {N1211-02DUP} with File ID: VL038266.D met criteria except for 2-Butanone[21.1%] due to difference in results of original and DUP.
The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Tuning criteria met requirements.

Samples SVE-INFLUENT, SVE-EFFLUENT were diluted due to high concentrations.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The Manual Integrations are performed for the followings :

Manual Integration Report

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Sequence	vl012422	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL038253.D	Benzyl Chloride	SAM	1/25/2022 2:19:05 PM	MMDadoda	1/26/2022 4:42:57 PM	Peak Integrated by Software incorrectly
VSTDICCC010	VL038253.D	Chlorobenzene-d5	SAM	1/25/2022 2:19:05 PM	MMDadoda	1/26/2022 4:42:57 PM	Peak Integrated by Software incorrectly
VSTDICCC010	VL038253.D	Ethanol	SAM	1/25/2022 2:19:05 PM	MMDadoda	1/26/2022 4:42:57 PM	Peak Integrated by Software incorrectly
VSTDICCC010	VL038253.D	m/p-Xylene	SAM	1/25/2022 2:19:05 PM	MMDadoda	1/26/2022 4:42:57 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL038254.D	1,2,4-Trichlorobenzene	SAM	1/25/2022 2:19:11 PM	MMDadoda	1/26/2022 4:42:59 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL038254.D	1,2-Dichloroethane	SAM	1/25/2022 2:19:11 PM	MMDadoda	1/26/2022 4:42:59 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL038254.D	1,4-Dioxane	SAM	1/25/2022 2:19:11 PM	MMDadoda	1/26/2022 4:42:59 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL038254.D	2-Hexanone	SAM	1/25/2022 2:19:11 PM	MMDadoda	1/26/2022 4:42:59 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL038254.D	Benzyl Chloride	SAM	1/25/2022 2:19:11 PM	MMDadoda	1/26/2022 4:42:59 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL038254.D	Bromoform	SAM	1/25/2022 2:19:11 PM	MMDadoda	1/26/2022 4:42:59 PM	Peak Integrated by

							Software incorrectly
VSTDICC002	VL038254.D	Ethanol	SAM	1/25/2022 2:19:11 PM	MMDadoda	1/26/2022 4:42:59 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL038254.D	Isopropyl Alcohol	SAM	1/25/2022 2:19:11 PM	MMDadoda	1/26/2022 4:42:59 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL038254.D	m/p-Xylene	SAM	1/25/2022 2:19:11 PM	MMDadoda	1/26/2022 4:42:59 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL038254.D	Methylene Chloride	SAM	1/25/2022 2:19:11 PM	MMDadoda	1/26/2022 4:42:59 PM	Peak Integrated by Software incorrectly
VSTDICC002	VL038254.D	tert-Butyl alcohol	SAM	1/25/2022 2:19:11 PM	MMDadoda	1/26/2022 4:42:59 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL038255.D	1,2,4-Trichlorobenzene	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL038255.D	1,3-Butadiene	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL038255.D	1,4-Dichlorobenzene	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL038255.D	1,4-Dioxane	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL038255.D	2-Hexanone	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL038255.D	4-Methyl-2-Pentanone	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software

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							incorrectly
VSTDICC001	VL038255.D	Benzyl Chloride	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL038255.D	cis-1,3-Dichloropropene	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL038255.D	Cyclohexane	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL038255.D	Ethanol	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL038255.D	Hexachloro-1,3-Butadiene	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL038255.D	Isopropyl Alcohol	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL038255.D	m/p-Xylene	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL038255.D	Methylene Chloride	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL038255.D	n-propylbenzene	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL038255.D	Naphthalene,2-methyl-	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL038255.D	tert-Butyl alcohol	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software incorrectly

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VSTDICC001	VL038255.D	Tetrahydrofuran	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software incorrectly
VSTDICC001	VL038255.D	trans-1,2-Dichloroethene	SAM	1/25/2022 2:20:34 PM	MMDadoda	1/26/2022 4:43:02 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL038256.D	1,1,1-Trichloroethane	SAM	1/25/2022 2:20:27 PM	MMDadoda	1/26/2022 4:43:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL038256.D	Isopropyl Alcohol	SAM	1/25/2022 2:20:27 PM	MMDadoda	1/26/2022 4:43:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL038256.D	m/p-Xylene	SAM	1/25/2022 2:20:27 PM	MMDadoda	1/26/2022 4:43:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL038256.D	Methyl Methacrylate	SAM	1/25/2022 2:20:27 PM	MMDadoda	1/26/2022 4:43:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL038256.D	Methylene Chloride	SAM	1/25/2022 2:20:27 PM	MMDadoda	1/26/2022 4:43:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL038256.D	Naphthalene	SAM	1/25/2022 2:20:27 PM	MMDadoda	1/26/2022 4:43:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL038256.D	t-1,3-Dichloropropene	SAM	1/25/2022 2:20:27 PM	MMDadoda	1/26/2022 4:43:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL038256.D	tert-Butyl alcohol	SAM	1/25/2022 2:20:27 PM	MMDadoda	1/26/2022 4:43:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL038256.D	tert-Butylbenzene	SAM	1/25/2022 2:20:27 PM	MMDadoda	1/26/2022 4:43:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL038256.D	Tetrahydrofuran	SAM	1/25/2022	MMDadoda	1/26/2022	Peak

				2:20:27 PM		4:43:04 PM	Integrated by Software incorrectly
VSTDICC0.5	VL038256.D	Trichloroethene	SAM	1/25/2022 2:20:27 PM	MMDadoda	1/26/2022 4:43:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL038256.D	Vinyl Acetate	SAM	1/25/2022 2:20:27 PM	MMDadoda	1/26/2022 4:43:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL038257.D	1,1,2,2-Tetrachloroethane	SAM	1/25/2022 2:19:15 PM	MMDadoda	1/26/2022 4:43:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL038257.D	Carbon Tetrachloride	SAM	1/25/2022 2:19:15 PM	MMDadoda	1/26/2022 4:43:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL038257.D	Tetrachloroethene	SAM	1/25/2022 2:19:15 PM	MMDadoda	1/26/2022 4:43:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL038258.D	1,1,1-Trichloroethane	SAM	1/25/2022 2:20:13 PM	MMDadoda	1/26/2022 4:43:09 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL038258.D	1,1,2,2-Tetrachloroethane	SAM	1/25/2022 2:20:13 PM	MMDadoda	1/26/2022 4:43:09 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL038258.D	Carbon Tetrachloride	SAM	1/25/2022 2:20:13 PM	MMDadoda	1/26/2022 4:43:09 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL038258.D	Tetrachloroethene	SAM	1/25/2022 2:20:13 PM	MMDadoda	1/26/2022 4:43:09 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL038258.D	Trichloroethene	SAM	1/25/2022 2:20:13 PM	MMDadoda	1/26/2022 4:43:09 PM	Peak Integrated by Software incorrectly
VSTDICC0.03	VL038258.D	Vinyl Chloride	SAM	1/25/2022 2:20:13	MMDadoda	1/26/2022 4:43:09	Peak Integrated

				PM		PM	by Software incorrectly
VSTDICC015	VL038259.D	m/p-Xylene	SAM	1/25/2022 2:20:19 PM	MMDadoda	1/26/2022 4:43:11 PM	Peak Integrated by Software incorrectly
VSTDICC015	VL038259.D	Naphthalene	SAM	1/25/2022 2:20:19 PM	MMDadoda	1/26/2022 4:43:11 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL038260.D	Chlorobenzene-d5	SAM	1/25/2022 2:19:22 PM	MMDadoda	1/26/2022 4:43:14 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL038260.D	Ethanol	SAM	1/25/2022 2:19:22 PM	MMDadoda	1/26/2022 4:43:14 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL038260.D	m/p-Xylene	SAM	1/25/2022 2:19:22 PM	MMDadoda	1/26/2022 4:43:14 PM	Peak Integrated by Software incorrectly
VL0124ABS01	VL038262.D	Chlorobenzene-d5	SAM	1/25/2022 2:17:31 PM	MMDadoda	1/26/2022 4:43:15 PM	Peak Integrated by Software incorrectly
VL0124ABS01	VL038262.D	Ethanol	SAM	1/25/2022 2:17:31 PM	MMDadoda	1/26/2022 4:43:15 PM	Peak Integrated by Software incorrectly
VL0124ABS01	VL038262.D	m/p-Xylene	SAM	1/25/2022 2:17:31 PM	MMDadoda	1/26/2022 4:43:15 PM	Peak Integrated by Software incorrectly
N1211-02	VL038265.D	1,2-Dichloropropane	SAM	1/26/2022 9:07:27 AM	MMDadoda	1/26/2022 4:43:20 PM	Peak Integrated by Software incorrectly
N1211-02	VL038265.D	1,3,5-Trimethylbenzene	SAM	1/26/2022 9:07:27 AM	MMDadoda	1/26/2022 4:43:20 PM	Peak Integrated by Software incorrectly
N1211-02	VL038265.D	2-Butanone	SAM	1/26/2022 9:07:27 AM	MMDadoda	1/26/2022 4:43:20 PM	Peak Integrated by

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							Software incorrectly
N1211-02	VL038265.D	4-Ethyltoluene	SAM	1/26/2022 9:07:27 AM	MMDadoda	1/26/2022 4:43:20 PM	Peak Integrated by Software incorrectly
N1211-02	VL038265.D	Acetone	SAM	1/26/2022 9:07:27 AM	MMDadoda	1/26/2022 4:43:20 PM	Peak Integrated by Software incorrectly
N1211-02	VL038265.D	Carbon Tetrachloride	SAM	1/26/2022 9:07:27 AM	MMDadoda	1/26/2022 4:43:20 PM	Peak Integrated by Software incorrectly
N1211-02	VL038265.D	Chloromethane	SAM	1/26/2022 9:07:27 AM	MMDadoda	1/26/2022 4:43:20 PM	Peak Integrated by Software incorrectly
N1211-02	VL038265.D	Ethyl Benzene	SAM	1/26/2022 9:07:27 AM	MMDadoda	1/26/2022 4:43:20 PM	Peak Integrated by Software incorrectly
N1211-02	VL038265.D	Isopropyl Alcohol	SAM	1/26/2022 9:07:27 AM	MMDadoda	1/26/2022 4:43:20 PM	Peak Integrated by Software incorrectly
N1211-02	VL038265.D	Styrene	SAM	1/26/2022 9:07:27 AM	MMDadoda	1/26/2022 4:43:20 PM	Peak Integrated by Software incorrectly
N1211-02	VL038265.D	Tetrachloroethene	SAM	1/26/2022 9:07:27 AM	MMDadoda	1/26/2022 4:43:20 PM	Peak Integrated by Software incorrectly
N1211-02DUP	VL038266.D	1,2,4-Trimethylbenzene	SAM	1/26/2022 9:07:34 AM	MMDadoda	1/26/2022 4:43:21 PM	Peak Integrated by Software incorrectly
N1211-02DUP	VL038266.D	1,2-Dichloropropane	SAM	1/26/2022 9:07:34 AM	MMDadoda	1/26/2022 4:43:21 PM	Peak Integrated by Software incorrectly
N1211-02DUP	VL038266.D	1,3,5-Trimethylbenzene	SAM	1/26/2022 9:07:34 AM	MMDadoda	1/26/2022 4:43:21 PM	Peak Integrated by Software

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							incorrectly
N1211-02DUP	VL038266.D	2,2,4-Trimethylpentane	SAM	1/26/2022 9:07:34 AM	MMDadoda	1/26/2022 4:43:21 PM	Peak Integrated by Software incorrectly
N1211-02DUP	VL038266.D	4-Ethyltoluene	SAM	1/26/2022 9:07:34 AM	MMDadoda	1/26/2022 4:43:21 PM	Peak Integrated by Software incorrectly
N1211-02DUP	VL038266.D	Acetone	SAM	1/26/2022 9:07:34 AM	MMDadoda	1/26/2022 4:43:21 PM	Peak Integrated by Software incorrectly
N1211-02DUP	VL038266.D	Carbon Tetrachloride	SAM	1/26/2022 9:07:34 AM	MMDadoda	1/26/2022 4:43:21 PM	Peak Integrated by Software incorrectly
N1211-02DUP	VL038266.D	Ethyl Acetate	SAM	1/26/2022 9:07:34 AM	MMDadoda	1/26/2022 4:43:21 PM	Peak Integrated by Software incorrectly
N1211-02DUP	VL038266.D	Isopropyl Alcohol	SAM	1/26/2022 9:07:34 AM	MMDadoda	1/26/2022 4:43:21 PM	Peak Integrated by Software incorrectly
N1211-02DUP	VL038266.D	Styrene	SAM	1/26/2022 9:07:34 AM	MMDadoda	1/26/2022 4:43:21 PM	Peak Integrated by Software incorrectly
N1211-02DUP	VL038266.D	Tetrachloroethene	SAM	1/26/2022 9:07:34 AM	MMDadoda	1/26/2022 4:43:21 PM	Peak Integrated by Software incorrectly
N1211-02DL	VL038267.D	2-Butanone	SAM	1/26/2022 9:07:48 AM	MMDadoda	1/26/2022 4:43:23 PM	Peak Integrated by Software incorrectly
N1211-02DL	VL038267.D	Cyclohexane	SAM	1/26/2022 9:07:48 AM	MMDadoda	1/26/2022 4:43:23 PM	Peak Integrated by Software incorrectly
N1211-02DL	VL038267.D	Ethyl Acetate	SAM	1/26/2022 9:07:48 AM	MMDadoda	1/26/2022 4:43:23 PM	Peak Integrated by Software incorrectly

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N1211-02DL	VL038267.D	Isopropyl Alcohol	SAM	1/26/2022 9:07:48 AM	MMDadoda	1/26/2022 4:43:23 PM	Peak Integrated by Software incorrectly
N1211-02DL	VL038267.D	m/p-Xylene	SAM	1/26/2022 9:07:48 AM	MMDadoda	1/26/2022 4:43:23 PM	Peak Integrated by Software incorrectly
N1211-02DL	VL038267.D	Tetrahydrofuran	SAM	1/26/2022 9:07:48 AM	MMDadoda	1/26/2022 4:43:23 PM	Peak Integrated by Software incorrectly
N1211-01	VL038268.D	1,1,1-Trichloroethane	SAM	1/26/2022 9:07:42 AM	MMDadoda	1/26/2022 4:43:25 PM	Peak Integrated by Software incorrectly
N1211-01	VL038268.D	1,2,4-Trimethylbenzene	SAM	1/26/2022 9:07:42 AM	MMDadoda	1/26/2022 4:43:25 PM	Peak Integrated by Software incorrectly
N1211-01	VL038268.D	1,3,5-Trimethylbenzene	SAM	1/26/2022 9:07:42 AM	MMDadoda	1/26/2022 4:43:25 PM	Peak Integrated by Software incorrectly
N1211-01	VL038268.D	4-Ethyltoluene	SAM	1/26/2022 9:07:42 AM	MMDadoda	1/26/2022 4:43:25 PM	Peak Integrated by Software incorrectly
N1211-01	VL038268.D	Chlorodifluoromethane	SAM	1/26/2022 9:07:42 AM	MMDadoda	1/26/2022 4:43:25 PM	Peak Integrated by Software incorrectly
N1211-01	VL038268.D	Chloromethane	SAM	1/26/2022 9:07:42 AM	MMDadoda	1/26/2022 4:43:25 PM	Peak Integrated by Software incorrectly
N1211-01	VL038268.D	Cyclohexane	SAM	1/26/2022 9:07:42 AM	MMDadoda	1/26/2022 4:43:25 PM	Peak Integrated by Software incorrectly
N1211-01	VL038268.D	Heptane	SAM	1/26/2022 9:07:42 AM	MMDadoda	1/26/2022 4:43:25 PM	Peak Integrated by Software incorrectly
N1211-01	VL038268.D	n-Butylbenzene	SAM	1/26/2022	MMDadoda	1/26/2022	Peak

				9:07:42 AM		4:43:25 PM	Integrated by Software incorrectly
N1211-01	VL038268.D	n-propylbenzene	SAM	1/26/2022 9:07:42 AM	MMDadoda	1/26/2022 4:43:25 PM	Peak Integrated by Software incorrectly
N1211-01	VL038268.D	Naphthalene	SAM	1/26/2022 9:07:42 AM	MMDadoda	1/26/2022 4:43:25 PM	Peak Integrated by Software incorrectly
N1211-01	VL038268.D	tert-Butyl alcohol	SAM	1/26/2022 9:07:42 AM	MMDadoda	1/26/2022 4:43:25 PM	Peak Integrated by Software incorrectly
N1211-01	VL038268.D	Trichloroethene	SAM	1/26/2022 9:07:42 AM	MMDadoda	1/26/2022 4:43:25 PM	Peak Integrated by Software incorrectly
N1211-01	VL038268.D	Trichlorofluoromethane	SAM	1/26/2022 9:07:42 AM	MMDadoda	1/26/2022 4:43:25 PM	Peak Integrated by Software incorrectly
N1211-01DL	VL038269.D	1,2,4-Trimethylbenzene	SAM	1/26/2022 9:07:53 AM	MMDadoda	1/26/2022 4:43:27 PM	Peak Integrated by Software incorrectly
N1211-01DL	VL038269.D	2-Butanone	SAM	1/26/2022 9:07:53 AM	MMDadoda	1/26/2022 4:43:27 PM	Peak Integrated by Software incorrectly
N1211-01DL	VL038269.D	Acetone	SAM	1/26/2022 9:07:53 AM	MMDadoda	1/26/2022 4:43:27 PM	Peak Integrated by Software incorrectly
N1211-01DL	VL038269.D	cis-1,2-Dichloroethene	SAM	1/26/2022 9:07:53 AM	MMDadoda	1/26/2022 4:43:27 PM	Peak Integrated by Software incorrectly
N1211-01DL	VL038269.D	Ethyl Acetate	SAM	1/26/2022 9:07:53 AM	MMDadoda	1/26/2022 4:43:27 PM	Peak Integrated by Software incorrectly
N1211-01DL	VL038269.D	Isopropyl Alcohol	SAM	1/26/2022 9:07:53	MMDadoda	1/26/2022 4:43:27	Peak Integrated

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				AM		PM	by Software incorrectly
N1211-01DL	VL038269.D	m/p-Xylene	SAM	1/26/2022 9:07:53 AM	MMDadoda	1/26/2022 4:43:27 PM	Peak Integrated by Software incorrectly
N1211-01DL	VL038269.D	o-Xylene	SAM	1/26/2022 9:07:53 AM	MMDadoda	1/26/2022 4:43:27 PM	Peak Integrated by Software incorrectly
N1211-01DL	VL038269.D	Tetrachloroethene	SAM	1/26/2022 9:07:53 AM	MMDadoda	1/26/2022 4:43:27 PM	Peak Integrated by Software incorrectly
N1211-01DL	VL038269.D	Tetrahydrofuran	SAM	1/26/2022 9:07:53 AM	MMDadoda	1/26/2022 4:43:27 PM	Peak Integrated by Software incorrectly

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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___ N. N. Pandya

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 12:14 pm, Feb 03, 2022

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 is 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 #: N1211

	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: APARNA SONI **Date:** 02/03/2022

2nd Level QA Review Signature: N. N. Pandya **Date:**

APPROVED
By Nimisha Pandya, QA/QC Supervisor at 12:14 pm, Feb 03, 2022

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LAB CHRONICLE

OrderID:	N1211	**OrderDate:**	1/20/2022 12:23:00 PM
Client:	EA Engineering Science & Technology	**Project:**	NYSDEC - National Heatset TO-15
Contact:	Emily Cummings	**Location:**	D11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
N1211-01	**SVE-INFLUENT**	**Air**			**01/17/22**			**01/20/22**
			TO-15	TO-15			01/24/22	
N1211-01DL	**SVE-INFLUENTDL**	**Air**			**01/17/22**			**01/20/22**
			TO-15	TO-15			01/24/22	
N1211-02	**SVE-EFFLUENT**	**Air**			**01/17/22**			**01/20/22**
			TO-15	TO-15			01/24/22	
N1211-02DL	**SVE-EFFLUENTDL**	**Air**			**01/17/22**			**01/20/22**
			TO-15	TO-15			01/24/22	

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Hit Summary Sheet
SW-846

SDG No.: N1211

Client: EA Engineering Science & Technology

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**SVE-INFLUENT**							
N1211-01	SVE-INFLUENT	Air	Dichlorodifluoromethane	1.93	J	0.35	2.47	ug/m3
N1211-01	SVE-INFLUENT	Air	Chloromethane	0.39	J	0.080	1.03	ug/m3
N1211-01	SVE-INFLUENT	Air	Tetrahydrofuran	59.30	E	0.12	1.47	ug/m3
N1211-01	SVE-INFLUENT	Air	Trichlorofluoromethane	1.57	J	0.22	2.81	ug/m3
N1211-01	SVE-INFLUENT	Air	tert-Butyl alcohol	0.91	J	0.12	1.52	ug/m3
N1211-01	SVE-INFLUENT	Air	Heptane	2.34		0.12	2.05	ug/m3
N1211-01	SVE-INFLUENT	Air	Acetone	38.20	E	0.90	1.19	ug/m3
N1211-01	SVE-INFLUENT	Air	Methylene Chloride	1.70	J	1.46	1.74	ug/m3
N1211-01	SVE-INFLUENT	Air	Cyclohexane	0.72	J	0.24	1.72	ug/m3
N1211-01	SVE-INFLUENT	Air	2-Butanone	30.10		0.090	1.47	ug/m3
N1211-01	SVE-INFLUENT	Air	Carbon Tetrachloride	0.69		0.13	0.19	ug/m3
N1211-01	SVE-INFLUENT	Air	cis-1,2-Dichloroethene	5.15		0.16	1.98	ug/m3
N1211-01	SVE-INFLUENT	Air	Chloroform	0.88	J	0.20	2.44	ug/m3
N1211-01	SVE-INFLUENT	Air	1,1,1-Trichloroethane	0.82		0.11	0.16	ug/m3
N1211-01	SVE-INFLUENT	Air	2,2,4-Trimethylpentane	1.92	J	0.14	2.34	ug/m3
N1211-01	SVE-INFLUENT	Air	Benzene	1.79		0.10	1.60	ug/m3
N1211-01	SVE-INFLUENT	Air	Trichloroethene	4.78		0.11	0.16	ug/m3
N1211-01	SVE-INFLUENT	Air	4-Methyl-2-Pentanone	6.56		0.12	2.05	ug/m3
N1211-01	SVE-INFLUENT	Air	Toluene	92.70	E	0.11	1.88	ug/m3
N1211-01	SVE-INFLUENT	Air	Tetrachloroethene	11.50		0.14	0.20	ug/m3
N1211-01	SVE-INFLUENT	Air	Ethyl Benzene	3.65		0.13	2.17	ug/m3
N1211-01	SVE-INFLUENT	Air	m/p-Xylene	13.50		0.26	4.34	ug/m3
N1211-01	SVE-INFLUENT	Air	o-Xylene	6.08		0.17	2.17	ug/m3
N1211-01	SVE-INFLUENT	Air	1,3,5-Trimethylbenzene	2.26	J	0.10	2.46	ug/m3
N1211-01	SVE-INFLUENT	Air	1,2,4-Trimethylbenzene	9.34		0.15	2.46	ug/m3
N1211-01	SVE-INFLUENT	Air	Naphthalene	3.09		0.26	2.62	ug/m3
N1211-01	SVE-INFLUENT	Air	4-Ethyltoluene	2.51		0.15	2.46	ug/m3
			Total Voc :	304.39				
			Total Concentration:	304.39				
Client ID:	**SVE-INFLUENTDL**							
N1211-01DL	SVE-INFLUENTDL	Air	Tetrahydrofuran	47.50	D	1.12	14.8	ug/m3
N1211-01DL	SVE-INFLUENTDL	Air	Acetone	37.10	D	9.03	11.9	ug/m3
N1211-01DL	SVE-INFLUENTDL	Air	2-Butanone	19.50	D	0.94	14.8	ug/m3
N1211-01DL	SVE-INFLUENTDL	Air	cis-1,2-Dichloroethene	4.76	JD	1.39	19.8	ug/m3
N1211-01DL	SVE-INFLUENTDL	Air	Toluene	84.80	D	0.98	18.8	ug/m3
N1211-01DL	SVE-INFLUENTDL	Air	Tetrachloroethene	10.20	D	1.29	2.03	ug/m3
N1211-01DL	SVE-INFLUENTDL	Air	m/p-Xylene	9.56	JD	2.74	43.4	ug/m3

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Hit Summary Sheet
SW-846

SDG No.: N1211

Client: EA Engineering Science & Technology

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
N1211-01DL	SVE-INFLUENTDL	Air	o-Xylene	4.34	JD	1.56	21.7	ug/m3
N1211-01DL	SVE-INFLUENTDL	Air	1,2,4-Trimethylbenzene	5.41	JD	1.28	24.6	ug/m3
			Total Voc :	223.04				
			Total Concentration:	223.04				
Client ID:	**SVE-EFFLUENT**							
N1211-02	SVE-EFFLUENT	Air	Dichlorodifluoromethane	1.14	J	0.35	2.47	ug/m3
N1211-02	SVE-EFFLUENT	Air	Chloromethane	1.01	J	0.080	1.03	ug/m3
N1211-02	SVE-EFFLUENT	Air	Tetrahydrofuran	4.72		0.12	1.47	ug/m3
N1211-02	SVE-EFFLUENT	Air	Trichlorofluoromethane	1.12	J	0.22	2.81	ug/m3
N1211-02	SVE-EFFLUENT	Air	Heptane	1.68	J	0.12	2.05	ug/m3
N1211-02	SVE-EFFLUENT	Air	Acetone	86.20	E	0.90	1.19	ug/m3
N1211-02	SVE-EFFLUENT	Air	Methylene Chloride	12.80		1.46	1.74	ug/m3
N1211-02	SVE-EFFLUENT	Air	Cyclohexane	3.30		0.24	1.72	ug/m3
N1211-02	SVE-EFFLUENT	Air	2-Butanone	6.19		0.090	1.47	ug/m3
N1211-02	SVE-EFFLUENT	Air	Carbon Tetrachloride	0.44		0.13	0.19	ug/m3
N1211-02	SVE-EFFLUENT	Air	2,2,4-Trimethylpentane	1.03	J	0.14	2.34	ug/m3
N1211-02	SVE-EFFLUENT	Air	Benzene	1.25	J	0.10	1.60	ug/m3
N1211-02	SVE-EFFLUENT	Air	1,2-Dichloropropane	1.80	J	0.18	2.31	ug/m3
N1211-02	SVE-EFFLUENT	Air	Toluene	33.90		0.11	1.88	ug/m3
N1211-02	SVE-EFFLUENT	Air	Tetrachloroethene	0.75		0.14	0.20	ug/m3
N1211-02	SVE-EFFLUENT	Air	Ethyl Benzene	1.78	J	0.13	2.17	ug/m3
N1211-02	SVE-EFFLUENT	Air	m/p-Xylene	7.38		0.26	4.34	ug/m3
N1211-02	SVE-EFFLUENT	Air	o-Xylene	3.30		0.17	2.17	ug/m3
N1211-02	SVE-EFFLUENT	Air	Styrene	0.72	J	0.13	2.13	ug/m3
N1211-02	SVE-EFFLUENT	Air	1,3,5-Trimethylbenzene	0.59	J	0.10	2.46	ug/m3
N1211-02	SVE-EFFLUENT	Air	1,2,4-Trimethylbenzene	1.72	J	0.15	2.46	ug/m3
N1211-02	SVE-EFFLUENT	Air	4-Ethyltoluene	0.64	J	0.15	2.46	ug/m3
N1211-02	SVE-EFFLUENT	Air	Hexane	4.23		0.11	1.76	ug/m3
			Total Voc :	177.79				
			Total Concentration:	177.79				
Client ID:	**SVE-EFFLUENTDL**							
N1211-02DL	SVE-EFFLUENTDL	Air	Tetrahydrofuran	3.54	JD	1.12	14.8	ug/m3
N1211-02DL	SVE-EFFLUENTDL	Air	Acetone	94.10	D	9.03	11.9	ug/m3
N1211-02DL	SVE-EFFLUENTDL	Air	Methylene Chloride	17.00	JD	14.6	17.4	ug/m3
N1211-02DL	SVE-EFFLUENTDL	Air	Cyclohexane	4.13	JD	2.24	17.2	ug/m3
N1211-02DL	SVE-EFFLUENTDL	Air	2-Butanone	4.72	JD	0.94	14.8	ug/m3
N1211-02DL	SVE-EFFLUENTDL	Air	Toluene	27.90	D	0.98	18.8	ug/m3
N1211-02DL	SVE-EFFLUENTDL	Air	m/p-Xylene	4.78	JD	2.74	43.4	ug/m3

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Hit Summary Sheet
SW-846

SDG No.: N1211

Client: EA Engineering Science & Technology

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
N1211-02DL	SVE-EFFLUENTDL	Air	Hexane	3.88	JD	0.99	17.6	ug/m3
			Total Voc :	160.03				
			Total Concentration:	160.03				

Project : NYSDEC - National Heatset TO-15 **Sampling Date :** 01/17/22

Field Id Number : SVE-INFLUENT **Analysis Date :** 01/24/22

Laboratory Id Number : N1211-01 **Target Analyts :** Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.39	J	1.93		
Chloromethane	74-87-3	50.49	0.19	J	0.39		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	20.1	E	59.3		
Trichlorofluoromethane	75-69-4	137.4	0.28	J	1.57		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
tert-Butyl alcohol	75-65-0	74.12	0.3	J	0.91		
Heptane	142-82-5	100.2	0.57		2.34		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	16.1	E	38.2		
Carbon Disulfide	75-15-0	76.14	0.5	U	1.56		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	0.49	J	1.7		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.21	J	0.72		
2-Butanone	78-93-3	72.11	10.2		30.1		
Carbon Tetrachloride	56-23-5	153.8	0.11		0.69		
cis-1,2-Dichloroethene	156-59-2	96.94	1.3		5.15		
Chloroform	67-66-3	119.4	0.18	J	0.88		
1,1,1-Trichloroethane	71-55-6	133.4	0.15		0.82		
2,2,4-Trimethylpentane	540-84-1	114.2	0.41	J	1.92		
Benzene	71-43-2	78.11	0.56		1.79		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.89		4.78		
1,2-Dichloropropane	78-87-5	113	0.5	U	2.31		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	1.6		6.56		
Toluene	108-88-3	92.14	24.6	E	92.7		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		
Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		

Project : NYSDEC - National Heatset TO-15 **Sampling Date :** 01/17/22

Field Id Number : SVE-INFLUENT **Analysis Date :** 01/24/22

Laboratory Id Number : N1211-01 **Target Analyts :** Air Results

1,2-Dibromoethane	106-93-4	187.9	0.5	U	3.84		
Tetrachloroethene	127-18-4	165.8	1.7		11.5		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.84		3.65		
m/p-Xylene	179601-23-1	106.2	3.1		13.5		
o-Xylene	95-47-6	106.2	1.4		6.08		
Styrene	100-42-5	104.1	0.5	U	2.13		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.03	U	0.21		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.46	J	2.26		
1,2,4-Trimethylbenzene	95-63-6	120.2	1.9		9.34		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.59		3.09		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
4-Ethyltoluene	622-96-8	120.2	0.51		2.51		
Hexane	110-54-3	86.17	0.5	U	1.76		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

Project : NYSDEC - National Heatset TO-15 **Sampling Date :** 01/17/22

Field Id Number : SVE-INFLUENTDL **Analysis Date :** 01/24/22

Laboratory Id Number : N1211-01DL **Target Analyts :** Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	5	UD	24.7		
Chloromethane	74-87-3	50.49	5	UD	10.3		
Vinyl Chloride	75-01-4	62.5	0.3	UD	0.77		
Bromomethane	74-83-9	94.94	5	UD	19.4		
Chloroethane	75-00-3	64.52	5	UD	13.2		
Tetrahydrofuran	109-99-9	72.11	16.1	D	47.5		
Trichlorofluoromethane	75-69-4	137.4	5	UD	28.1		
Dichlorotetrafluoroethane	76-14-2	170.9	5	UD	35.0		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	5	UD	38.3		
tert-Butyl alcohol	75-65-0	74.12	5	UD	15.2		
Heptane	142-82-5	100.2	5	UD	20.5		
1,1-Dichloroethene	75-35-4	96.94	5	UD	19.8		
Acetone	67-64-1	58.08	15.6	D	37.1		
Carbon Disulfide	75-15-0	76.14	5	UD	15.6		
Methyl tert-Butyl Ether	1634-04-4	88.15	5	UD	18.0		
Methylene Chloride	75-09-2	84.94	5	UD	17.4		
trans-1,2-Dichloroethene	156-60-5	96.94	5	UD	19.8		
1,1-Dichloroethane	75-34-3	98.96	5	UD	20.2		
Cyclohexane	110-82-7	84.16	5	UD	17.2		
2-Butanone	78-93-3	72.11	6.6	D	19.5		
Carbon Tetrachloride	56-23-5	153.8	0.3	UD	1.89		
cis-1,2-Dichloroethene	156-59-2	96.94	1.2	JD	4.76		
Chloroform	67-66-3	119.4	5	UD	24.4		
1,1,1-Trichloroethane	71-55-6	133.4	0.3	UD	1.64		
2,2,4-Trimethylpentane	540-84-1	114.2	5	UD	23.4		
Benzene	71-43-2	78.11	5	UD	16.0		
1,2-Dichloroethane	107-06-2	98.96	5	UD	20.2		
Trichloroethene	79-01-6	131.4	0.3	UD	1.61		
1,2-Dichloropropane	78-87-5	113	5	UD	23.1		
Bromodichloromethane	75-27-4	163.8	5	UD	33.5		
4-Methyl-2-Pentanone	108-10-1	100.2	5	UD	20.5		
Toluene	108-88-3	92.14	22.5	D	84.8		
t-1,3-Dichloropropene	10061-02-6	111	5	UD	22.7		
cis-1,3-Dichloropropene	10061-01-5	111	5	UD	22.7		
1,1,2-Trichloroethane	79-00-5	133.4	5	UD	27.3		
Dibromochloromethane	124-48-1	208.3	5	UD	42.6		

Project : NYSDEC - National Heatset TO-15 **Sampling Date :** 01/17/22

Field Id Number : SVE-INFLUENTDL **Analysis Date :** 01/24/22

Laboratory Id Number : N1211-01DL **Target Analyts :** Air Results

1,2-Dibromoethane	106-93-4	187.9	5	UD	38.4		
Tetrachloroethene	127-18-4	165.8	1.5	D	10.2		
Chlorobenzene	108-90-7	112.6	5	UD	23.0		
Ethyl Benzene	100-41-4	106.2	5	UD	21.7		
m/p-Xylene	179601-23-1	106.2	2.2	JD	9.56		
o-Xylene	95-47-6	106.2	1	JD	4.34		
Styrene	100-42-5	104.1	5	UD	21.3		
Bromoform	75-25-2	252.8	5	UD	51.7		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.3	UD	2.06		
2-Chlorotoluene	95-49-8	126.6	5	UD	25.9		
1,3,5-Trimethylbenzene	108-67-8	120.2	5	UD	24.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	1.1	JD	5.41		
1,3-Dichlorobenzene	541-73-1	147	5	UD	30.1		
1,4-Dichlorobenzene	106-46-7	147	5	UD	30.1		
1,2-Dichlorobenzene	95-50-1	147	5	UD	30.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	5	UD	37.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	5	UD	53.3		
Naphthalene	91-20-3	128.17	5	UD	26.2		
1,3-Butadiene	106-99-0	54.09	5	UD	11.1		
4-Ethyltoluene	622-96-8	120.2	5	UD	24.6		
Hexane	110-54-3	86.17	5	UD	17.6		
Allyl Chloride	107-05-1	76.53	5	UD	15.6		
1,4-Dioxane	123-91-1	88.12	5	UD	18.0		
Methyl Methacrylate	80-62-6	100.117	5	UD	20.5		

Project : NYSDEC - National Heatset TO-15 **Sampling Date :** 01/17/22

Field Id Number : SVE-EFFLUENT **Analysis Date :** 01/24/22

Laboratory Id Number : N1211-02 **Target Analyts :** Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.23	J	1.14		
Chloromethane	74-87-3	50.49	0.49	J	1.01		
Vinyl Chloride	75-01-4	62.5	0.03	U	0.08		
Bromomethane	74-83-9	94.94	0.5	U	1.94		
Chloroethane	75-00-3	64.52	0.5	U	1.32		
Tetrahydrofuran	109-99-9	72.11	1.6		4.72		
Trichlorofluoromethane	75-69-4	137.4	0.2	J	1.12		
Dichlorotetrafluoroethane	76-14-2	170.9	0.5	U	3.49		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.5	U	3.83		
tert-Butyl alcohol	75-65-0	74.12	0.5	U	1.52		
Heptane	142-82-5	100.2	0.41	J	1.68		
1,1-Dichloroethene	75-35-4	96.94	0.5	U	1.98		
Acetone	67-64-1	58.08	36.3	E	86.2		
Carbon Disulfide	75-15-0	76.14	0.5	U	1.56		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.5	U	1.8		
Methylene Chloride	75-09-2	84.94	3.7		12.8		
trans-1,2-Dichloroethene	156-60-5	96.94	0.5	U	1.98		
1,1-Dichloroethane	75-34-3	98.96	0.5	U	2.02		
Cyclohexane	110-82-7	84.16	0.96		3.3		
2-Butanone	78-93-3	72.11	2.1		6.19		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.5	U	1.98		
Chloroform	67-66-3	119.4	0.5	U	2.44		
1,1,1-Trichloroethane	71-55-6	133.4	0.03	U	0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	0.22	J	1.03		
Benzene	71-43-2	78.11	0.39	J	1.25		
1,2-Dichloroethane	107-06-2	98.96	0.5	U	2.02		
Trichloroethene	79-01-6	131.4	0.03	U	0.16		
1,2-Dichloropropane	78-87-5	113	0.39	J	1.8		
Bromodichloromethane	75-27-4	163.8	0.5	U	3.35		
4-Methyl-2-Pentanone	108-10-1	100.2	0.5	U	2.05		
Toluene	108-88-3	92.14	9		33.9		
t-1,3-Dichloropropene	10061-02-6	111	0.5	U	2.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.5	U	2.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.5	U	2.73		
Dibromochloromethane	124-48-1	208.3	0.5	U	4.26		

Project : NYSDEC - National Heatset TO-15 **Sampling Date :** 01/17/22

Field Id Number : SVE-EFFLUENT **Analysis Date :** 01/24/22

Laboratory Id Number : N1211-02 **Target Analyts :** Air Results

1,2-Dibromoethane	106-93-4	187.9	0.5	U	3.84		
Tetrachloroethene	127-18-4	165.8	0.11		0.75		
Chlorobenzene	108-90-7	112.6	0.5	U	2.3		
Ethyl Benzene	100-41-4	106.2	0.41	J	1.78		
m/p-Xylene	179601-23-1	106.2	1.7		7.38		
o-Xylene	95-47-6	106.2	0.76		3.3		
Styrene	100-42-5	104.1	0.17	J	0.72		
Bromoform	75-25-2	252.8	0.5	U	5.17		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.03	U	0.21		
2-Chlorotoluene	95-49-8	126.6	0.5	U	2.59		
1,3,5-Trimethylbenzene	108-67-8	120.2	0.12	J	0.59		
1,2,4-Trimethylbenzene	95-63-6	120.2	0.35	J	1.72		
1,3-Dichlorobenzene	541-73-1	147	0.5	U	3.01		
1,4-Dichlorobenzene	106-46-7	147	0.5	U	3.01		
1,2-Dichlorobenzene	95-50-1	147	0.5	U	3.01		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.5	U	3.71		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.5	U	5.33		
Naphthalene	91-20-3	128.17	0.5	U	2.62		
1,3-Butadiene	106-99-0	54.09	0.5	U	1.11		
4-Ethyltoluene	622-96-8	120.2	0.13	J	0.64		
Hexane	110-54-3	86.17	1.2		4.23		
Allyl Chloride	107-05-1	76.53	0.5	U	1.57		
1,4-Dioxane	123-91-1	88.12	0.5	U	1.8		
Methyl Methacrylate	80-62-6	100.117	0.5	U	2.05		

Project : NYSDEC - National Heatset TO-15 **Sampling Date :** 01/17/22

Field Id Number : SVE-EFFLUENTDL **Analysis Date :** 01/24/22

Laboratory Id Number : N1211-02DL **Target Analyts :** Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	5	UD	24.7		
Chloromethane	74-87-3	50.49	5	UD	10.3		
Vinyl Chloride	75-01-4	62.5	0.3	UD	0.77		
Bromomethane	74-83-9	94.94	5	UD	19.4		
Chloroethane	75-00-3	64.52	5	UD	13.2		
Tetrahydrofuran	109-99-9	72.11	1.2	JD	3.54		
Trichlorofluoromethane	75-69-4	137.4	5	UD	28.1		
Dichlorotetrafluoroethane	76-14-2	170.9	5	UD	35.0		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	5	UD	38.3		
tert-Butyl alcohol	75-65-0	74.12	5	UD	15.2		
Heptane	142-82-5	100.2	5	UD	20.5		
1,1-Dichloroethene	75-35-4	96.94	5	UD	19.8		
Acetone	67-64-1	58.08	39.6	D	94.1		
Carbon Disulfide	75-15-0	76.14	5	UD	15.6		
Methyl tert-Butyl Ether	1634-04-4	88.15	5	UD	18.0		
Methylene Chloride	75-09-2	84.94	4.9	JD	17.0		
trans-1,2-Dichloroethene	156-60-5	96.94	5	UD	19.8		
1,1-Dichloroethane	75-34-3	98.96	5	UD	20.2		
Cyclohexane	110-82-7	84.16	1.2	JD	4.13		
2-Butanone	78-93-3	72.11	1.6	JD	4.72		
Carbon Tetrachloride	56-23-5	153.8	0.3	UD	1.89		
cis-1,2-Dichloroethene	156-59-2	96.94	5	UD	19.8		
Chloroform	67-66-3	119.4	5	UD	24.4		
1,1,1-Trichloroethane	71-55-6	133.4	0.3	UD	1.64		
2,2,4-Trimethylpentane	540-84-1	114.2	5	UD	23.4		
Benzene	71-43-2	78.11	5	UD	16.0		
1,2-Dichloroethane	107-06-2	98.96	5	UD	20.2		
Trichloroethene	79-01-6	131.4	0.3	UD	1.61		
1,2-Dichloropropane	78-87-5	113	5	UD	23.1		
Bromodichloromethane	75-27-4	163.8	5	UD	33.5		
4-Methyl-2-Pentanone	108-10-1	100.2	5	UD	20.5		
Toluene	108-88-3	92.14	7.4	D	27.9		
t-1,3-Dichloropropene	10061-02-6	111	5	UD	22.7		
cis-1,3-Dichloropropene	10061-01-5	111	5	UD	22.7		
1,1,2-Trichloroethane	79-00-5	133.4	5	UD	27.3		
Dibromochloromethane	124-48-1	208.3	5	UD	42.6		

Project : NYSDEC - National Heatset TO-15 **Sampling Date :** 01/17/22

Field Id Number : SVE-EFFLUENTDL **Analysis Date :** 01/24/22

Laboratory Id Number : N1211-02DL **Target Analyts :** Air Results

1,2-Dibromoethane	106-93-4	187.9	5	UD	38.4		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	5	UD	23.0		
Ethyl Benzene	100-41-4	106.2	5	UD	21.7		
m/p-Xylene	179601-23-1	106.2	1.1	JD	4.78		
o-Xylene	95-47-6	106.2	5	UD	21.7		
Styrene	100-42-5	104.1	5	UD	21.3		
Bromoform	75-25-2	252.8	5	UD	51.7		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.3	UD	2.06		
2-Chlorotoluene	95-49-8	126.6	5	UD	25.9		
1,3,5-Trimethylbenzene	108-67-8	120.2	5	UD	24.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	5	UD	24.6		
1,3-Dichlorobenzene	541-73-1	147	5	UD	30.1		
1,4-Dichlorobenzene	106-46-7	147	5	UD	30.1		
1,2-Dichlorobenzene	95-50-1	147	5	UD	30.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	5	UD	37.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	5	UD	53.3		
Naphthalene	91-20-3	128.17	5	UD	26.2		
1,3-Butadiene	106-99-0	54.09	5	UD	11.1		
4-Ethyltoluene	622-96-8	120.2	5	UD	24.6		
Hexane	110-54-3	86.17	1.1	JD	3.88		
Allyl Chloride	107-05-1	76.53	5	UD	15.6		
1,4-Dioxane	123-91-1	88.12	5	UD	18.0		
Methyl Methacrylate	80-62-6	100.117	5	UD	20.5		

Method	Matrix	Parameter	Spike_Amt_Added	ISMDLPASS	Calculated MDL	MB Data	MB Datafile	Currently Used MDL	New MDL TO Be Used
TO-15	Air	1,1,1,2-Tetrachloroethane	0.1	Y	0.038169073	0		0.0439	0.039
TO-15	Air	1,1,1-Trichloroethane	0.03	Y	0.022190408	0		0.0181	0.020
TO-15	Air	1,1,2,2-Tetrachloroethane	0.03	Y	0.023332729	0		0.0117	0.021
TO-15	Air	1,1,2-Trichloroethane	0.1	Y	0.034414668	0		0.0349	0.035
TO-15	Air	1,1,2-Trichlorotrifluoroethane	0.1	Y	0.042949752	0		0.0352	0.043
TO-15	Air	1,1-Dichloroethane	0.1	Y	0.03742081	0		0.0287	0.038
TO-15	Air	1,1-Dichloroethene	0.1	Y	0.0497327	0		0.0398	0.050
TO-15	Air	1,2,4-Trichlorobenzene	0.1	Y	0.043090408	0		0.055	0.044
TO-15	Air	1,2,4-Trimethylbenzene	0.1	Y	0.025906457	0		0.0353	0.026
TO-15	Air	1,2-Dibromoethane	0.1	Y	0.029803976	0		0.0371	0.030
TO-15	Air	1,2-Dichlorobenzene	0.1	Y	0.033375574	0		0.047	0.034
TO-15	Air	1,2-Dichloroethane	0.1	Y	0.037124121	0		0.0354	0.038
TO-15	Air	1,2-Dichloropropane	0.1	Y	0.041207006	0		0.056	0.042
TO-15	Air	1,3,5-Trimethylbenzene	0.1	Y	0.023378817	0		0.0339	0.024
TO-15	Air	1,3-Butadiene	0.1	Y	0.045376125	0		0.0344	0.046
TO-15	Air	1,3-Dichlorobenzene	0.1	Y	0.049414028	0		0.0437	0.050
TO-15	Air	1,4-Dichlorobenzene	0.1	Y	0.030809262	0		0.0407	0.031
TO-15	Air	1,4-Dioxane	0.4	Y	0.238617256	0		0.1901	0.239
TO-15	Air	2,2,4-Trimethylpentane	0.1	Y	0.028514861	0		0.0283	0.029
TO-15	Air	2-Butanone	0.1	Y	0.031768118	0		0.0315	0.032
TO-15	Air	2-Chlorotoluene	0.1	Y	0.031976999	0		0.0402	0.032
TO-15	Air	2-Hexanone	0.1	Y	0.029407589	0		0.0336	0.030
TO-15	Air	4-Ethyltoluene	0.1	Y	0.030790486	0		0.0449	0.031
TO-15	Air	4-Methyl-2-Pentanone	0.1	Y	0.026822906	0		0.0333	0.027
TO-15	Air	Acetone	0.4	Y	0.343057526	0.384	VL034964.D	0.1875	0.384
TO-15	Air	Allyl Chloride	0.1	Y	0.044366135	0		0.0497	0.045
TO-15	Air	Benzene	0.1	Y	0.031993316	0		0.0305	0.032
TO-15	Air	Benzyl Chloride	0.4	Y	0.285709345	0		0.0896	0.286
TO-15	Air	Bromodichloromethane	0.1	Y	0.031753907	0		0.0404	0.032
TO-15	Air	Bromoethene	0.1	Y	0.038346042	0		0.0452	0.039
TO-15	Air	Bromoform	0.1	Y	0.036178952	0		0.0463	0.037
TO-15	Air	Bromomethane	0.1	Y	0.042892242	0		0.0401	0.043
TO-15	Air	Carbon Disulfide	0.1	Y	0.042686218	0		0.0356	0.043
TO-15	Air	Carbon Tetrachloride	0.03	Y	0.019999154	0		0.0211	0.018
TO-15	Air	Chlorobenzene	0.1	Y	0.027923049	0		0.031	0.028
TO-15	Air	Chlorodifluoromethane	0.1	Y	0.027088724	0		0.0281	0.028
TO-15	Air	Chloroethane	0.1	Y	0.040304062	0		0.0593	0.041
TO-15	Air	Chloroform	0.1	Y	0.035028484	0		0.0316	0.036
TO-15	Air	Chloromethane	0.1	Y	0.038523296	0		0.0407	0.039
TO-15	Air	cis-1,2-Dichloroethene	0.1	Y	0.034123257	0		0.0377	0.035
TO-15	Air	cis-1,3-Dichloropropene	0.1	Y	0.016092481	0		0.0236	0.017
TO-15	Air	Cyclohexane	0.1	Y	0.064145149	0		0.0863	0.065
TO-15	Air	Dibromochloromethane	0.1	Y	0.025128729	0		0.0329	0.026
TO-15	Air	Dichlorodifluoromethane	0.1	Y	0.066866	0		0.0602	0.067
TO-15	Air	Dichlorotetrafluoroethane	0.1	Y	0.044390608	0		0.0494	0.045
TO-15	Air	Ethanol	0.4	Y	0.237378612	0		0.2165	0.238
TO-15	Air	Ethyl Acetate	0.1	Y	0.021970471	0		0.0333	0.022
TO-15	Air	Ethyl Benzene	0.1	Y	0.031661379	0		0.0298	0.032
TO-15	Air	Heptane	0.1	Y	0.027221696	0		0.027	0.028
TO-15	Air	Hexachloro-1,3-Butadiene	0.1	Y	0.050766514	0		0.0793	0.051
TO-15	Air	Hexane	0.1	Y	0.027182288	0		0.0301	0.028
TO-15	Air	Isopropyl Alcohol	0.1	Y	0.042836631	0		0.0599	0.043
TO-15	Air	Isopropylbenzene	0.1	Y	0.035329996	0		0.0403	0.036
TO-15	Air	m/p-Xylene	0.2	Y	0.062339263	0		0.0746	0.063
TO-15	Air	Methyl Methacrylate	0.1	Y	0.031507756	0		0.0348	0.032
TO-15	Air	Methyl tert-Butyl Ether	0.1	Y	0.032114766	0		0.0348	0.033
TO-15	Air	Methylene Chloride	0.4	Y	0.183941672	0.417	VL035224.D	0.0827	0.417
TO-15	Air	Naphthalene	0.1	Y	0.053219223	0		0.0656	0.054
TO-15	Air	Naphthalene,2-methyl-	0.4	Y	0.224011838	0		0.0656	0.225
TO-15	Air	n-Butylbenzene	0.1	Y	0.026157866	0		0.04	0.027
TO-15	Air	n-propylbenzene	0.1	Y	0.036550151	0		0.0465	0.037
TO-15	Air	o-Xylene	0.1	Y	0.035195597	0		0.0396	0.036
TO-15	Air	p-Isopropyltoluene	0.1	Y	0.020956468	0		0.0314	0.021
TO-15	Air	Propene	0.1	Y	0.059124928	0		0.0506	0.060
TO-15	Air	sec-Butylbenzene	0.1	Y	0.024620659	0		0.0362	0.025
TO-15	Air	Styrene	0.1	Y	0.025065221	0		0.0244	0.026
TO-15	Air	t-1,3-Dichloropropene	0.1	Y	0.029875353	0		0.041	0.030
TO-15	Air	tert-Butyl alcohol	0.1	Y	0.038123222	0		0.0494	0.039
TO-15	Air	tert-Butylbenzene	0.1	Y	0.023671408	0		0.0339	0.024
TO-15	Air	Tetrachloroethene	0.03	Y	0.020770753	0		0.0205	0.019
TO-15	Air	Tetrahydrofuran	0.1	Y	0.037429855	0		0.0432	0.038
TO-15	Air	Toluene	0.1	Y	0.025650934	0		0.0306	0.026
TO-15	Air	trans-1,2-Dichloroethene	0.1	Y	0.057532793	0		0.0436	0.058
TO-15	Air	Trichloroethene	0.03	Y	0.018683888	0		0.0124	0.017
TO-15	Air	Trichlorofluoromethane	0.1	Y	0.040051294	0		0.0356	0.041
TO-15	Air	Vinyl Acetate	0.1	Y	0.042547389	0		0.0598	0.037
TO-15	Air	Vinyl Chloride	0.03	Y	0.029624557	0		0.025	0.026

MDL units	StdevVal	StudentsTValue	iNSTRUMENTid	mass	Datafile1	Concentration1	Adate1	Datafile2	Concentration2
ppbv	0.014669129	2.602	MSVOA_L		VL034859.D	0.084	03102020T04:21:00	VL034878.D	0.121
ppbv	0.007401737	2.998	MSVOA_L		VL034860.D	0.031	03102020T04:58:00	VL034879.D	0.038
ppbv	0.007782765	2.998	MSVOA_L		VL034860.D	0.027	03102020T04:58:00	VL034879.D	0.049
ppbv	0.013226237	2.602	MSVOA_L		VL034859.D	0.117	03102020T04:21:00	VL034878.D	0.144
ppbv	0.016506438	2.602	MSVOA_L		VL034859.D	0.125	03102020T04:21:00	VL034878.D	0.153
ppbv	0.014381556	2.602	MSVOA_L		VL034859.D	0.113	03102020T04:21:00	VL034878.D	0.15
ppbv	0.019113259	2.602	MSVOA_L		VL034859.D	0.121	03102020T04:21:00	VL034878.D	0.149
ppbv	0.016560495	2.602	MSVOA_L		VL034859.D	0.047	03102020T04:21:00	VL034878.D	0.061
ppbv	0.009956363	2.602	MSVOA_L		VL034859.D	0.068	03102020T04:21:00	VL034878.D	0.065
ppbv	0.011454257	2.602	MSVOA_L		VL034859.D	0.096	03102020T04:21:00	VL034878.D	0.115
ppbv	0.012826892	2.602	MSVOA_L		VL034859.D	0.1	03102020T04:21:00	VL034878.D	0.108
ppbv	0.014267533	2.602	MSVOA_L		VL034859.D	0.13	03102020T04:21:00	VL034878.D	0.15
ppbv	0.015836666	2.602	MSVOA_L		VL034859.D	0.115	03102020T04:21:00	VL034878.D	0.14
ppbv	0.008984941	2.602	MSVOA_L		VL034859.D	0.061	03102020T04:21:00	VL034878.D	0.062
ppbv	0.017438941	2.602	MSVOA_L		VL034859.D	0.095	03102020T04:21:00	VL034878.D	0.142
ppbv	0.018990787	2.602	MSVOA_L		VL034859.D	0.104	03102020T04:21:00	VL034878.D	0.124
ppbv	0.011840608	2.602	MSVOA_L		VL034859.D	0.104	03102020T04:21:00	VL034878.D	0.107
ppbv	0.091705325	2.602	MSVOA_L		VL034858.D	0.453	03102020T03:43:00	VL034877.D	0.462
ppbv	0.010958824	2.602	MSVOA_L		VL034859.D	0.088	03102020T04:21:00	VL034878.D	0.09
ppbv	0.012209115	2.602	MSVOA_L		VL034859.D	0.105	03102020T04:21:00	VL034878.D	0.128
ppbv	0.012289392	2.602	MSVOA_L		VL034859.D	0.087	03102020T04:21:00	VL034878.D	0.087
ppbv	0.011301917	2.602	MSVOA_L		VL034859.D	0.069	03102020T04:21:00	VL034878.D	0.078
ppbv	0.011833392	2.602	MSVOA_L		VL034859.D	0.066	03102020T04:21:00	VL034878.D	0.067
ppbv	0.010308572	2.602	MSVOA_L		VL034859.D	0.089	03102020T04:21:00	VL034878.D	0.088
ppbv	0.131843784	2.602	MSVOA_L		VL034858.D	0.453	03102020T03:43:00	VL034877.D	0.5
ppbv	0.017050782	2.602	MSVOA_L		VL034859.D	0.101	03102020T04:21:00	VL034878.D	0.105
ppbv	0.012295663	2.602	MSVOA_L		VL034859.D	0.106	03102020T04:21:00	VL034878.D	0.109
ppbv	0.109803745	2.602	MSVOA_L		VL034858.D	0.248	03102020T03:43:00	VL034877.D	0.234
ppbv	0.012203654	2.602	MSVOA_L		VL034859.D	0.083	03102020T04:21:00	VL034878.D	0.103
ppbv	0.014737141	2.602	MSVOA_L		VL034859.D	0.098	03102020T04:21:00	VL034878.D	0.135
ppbv	0.013904286	2.602	MSVOA_L		VL034859.D	0.058	03102020T04:21:00	VL034878.D	0.074
ppbv	0.016484336	2.602	MSVOA_L		VL034859.D	0.131	03102020T04:21:00	VL034878.D	0.138
ppbv	0.016405157	2.602	MSVOA_L		VL034859.D	0.086	03102020T04:21:00	VL034878.D	0.08
ppbv	0.006670832	2.998	MSVOA_L		VL034860.D	0.033	03102020T04:58:00	VL034879.D	0.04
ppbv	0.010731379	2.602	MSVOA_L		VL034859.D	0.122	03102020T04:21:00	VL034878.D	0.136
ppbv	0.010410732	2.602	MSVOA_L		VL034859.D	0.112	03102020T04:21:00	VL034878.D	0.138
ppbv	0.015489647	2.602	MSVOA_L		VL034859.D	0.13	03102020T04:21:00	VL034878.D	0.151
ppbv	0.013462138	2.602	MSVOA_L		VL034859.D	0.119	03102020T04:21:00	VL034878.D	0.141
ppbv	0.014805264	2.602	MSVOA_L		VL034859.D	0.116	03102020T04:21:00	VL034878.D	0.127
ppbv	0.013114242	2.602	MSVOA_L		VL034859.D	0.103	03102020T04:21:00	VL034878.D	0.117
ppbv	0.006184658	2.602	MSVOA_L		VL034859.D	0.072	03102020T04:21:00	VL034878.D	0.077
ppbv	0.024652248	2.602	MSVOA_L		VL034859.D	0.099	03102020T04:21:00	VL034878.D	0.115
ppbv	0.009657467	2.602	MSVOA_L		VL034859.D	0.062	03102020T04:21:00	VL034878.D	0.076
ppbv	0.025697925	2.602	MSVOA_L		VL034859.D	0.159	03102020T04:21:00	VL034878.D	0.198
ppbv	0.017060188	2.602	MSVOA_L		VL034859.D	0.122	03102020T04:21:00	VL034878.D	0.154
ppbv	0.09122929	2.602	MSVOA_L		VL034858.D	0.667	03102020T03:43:00	VL034877.D	0.435
ppbv	0.008443686	2.602	MSVOA_L		VL034859.D	0.103	03102020T04:21:00	VL034878.D	0.105
ppbv	0.012168094	2.602	MSVOA_L		VL034859.D	0.089	03102020T04:21:00	VL034878.D	0.092
ppbv	0.010461835	2.602	MSVOA_L		VL034859.D	0.073	03102020T04:21:00	VL034878.D	0.094
ppbv	0.019510574	2.602	MSVOA_L		VL034859.D	0.116	03102020T04:21:00	VL034878.D	0.132
ppbv	0.01044669	2.602	MSVOA_L		VL034859.D	0.104	03102020T04:21:00	VL034878.D	0.122
ppbv	0.016462963	2.602	MSVOA_L		VL034859.D	0.152	03102020T04:21:00	VL034878.D	0.151
ppbv	0.013578015	2.602	MSVOA_L		VL034859.D	0.085	03102020T04:21:00	VL034878.D	0.103
ppbv	0.02395821	2.602	MSVOA_L		VL034859.D	0.161	03102020T04:21:00	VL034878.D	0.168
ppbv	0.012109053	2.602	MSVOA_L		VL034859.D	0.083	03102020T04:21:00	VL034878.D	0.099
ppbv	0.012342339	2.602	MSVOA_L		VL034859.D	0.095	03102020T04:21:00	VL034878.D	0.113
ppbv	0.061354794	2.998	MSVOA_L		VL034858.D	0.506	03102020T03:43:00	VL034877.D	0.566
ppbv	0.020453199	2.602	MSVOA_L		VL034859.D	0.038	03102020T04:21:00	VL034878.D	0.039
ppbv	0.086092174	2.602	MSVOA_L		VL034858.D	0.205	03102020T03:43:00	VL034877.D	0.184
ppbv	0.010052985	2.602	MSVOA_L		VL034859.D	0.057	03102020T04:21:00	VL034878.D	0.06
ppbv	0.014046945	2.602	MSVOA_L		VL034859.D	0.061	03102020T04:21:00	VL034878.D	0.086
ppbv	0.013526363	2.602	MSVOA_L		VL034859.D	0.084	03102020T04:21:00	VL034878.D	0.088
ppbv	0.008053985	2.602	MSVOA_L		VL034859.D	0.054	03102020T04:21:00	VL034878.D	0.056
ppbv	0.022722878	2.602	MSVOA_L		VL034859.D	0.111	03102020T04:21:00	VL034878.D	0.162
ppbv	0.009462206	2.602	MSVOA_L		VL034859.D	0.066	03102020T04:21:00	VL034878.D	0.066
ppbv	0.009633059	2.602	MSVOA_L		VL034859.D	0.07	03102020T04:21:00	VL034878.D	0.073
ppbv	0.011481688	2.602	MSVOA_L		VL034859.D	0.064	03102020T04:21:00	VL034878.D	0.049
ppbv	0.014651507	2.602	MSVOA_L		VL034859.D	0.125	03102020T04:21:00	VL034878.D	0.147
ppbv	0.00909739	2.602	MSVOA_L		VL034859.D	0.059	03102020T04:21:00	VL034878.D	0.054
ppbv	0.006928203	2.998	MSVOA_L		VL034860.D	0.029	03102020T04:58:00	VL034879.D	0.045
ppbv	0.014385033	2.602	MSVOA_L		VL034859.D	0.101	03102020T04:21:00	VL034878.D	0.087
ppbv	0.009858161	2.602	MSVOA_L		VL034859.D	0.071	03102020T04:21:00	VL034878.D	0.084
ppbv	0.022110989	2.602	MSVOA_L		VL034859.D	0.11	03102020T04:21:00	VL034878.D	0.131
ppbv	0.006232117	2.998	MSVOA_L		VL034860.D	0.032	03102020T04:58:00	VL034879.D	0.036
ppbv	0.015392504	2.602	MSVOA_L		VL034859.D	0.112	03102020T04:21:00	VL034878.D	0.162
ppbv	0.014191924	2.998	MSVOA_L		VL034859.D	0.079	03102020T04:21:00	VL034878.D	0.089
ppbv	0.00988144	2.998	MSVOA_L		VL034860.D	0.027	03102020T04:58:00	VL034879.D	0.043

Adate2	Datafile3	Concentration3	Adate3	Datafile4	Concentration4	Adate4	Datafile5	Concentration5
03102020T22:50:00	VL034949.D	0.09	05062020T19:33:00	VL034980.D	0.113	05072020T23:10:00	VL035229.D	0.132
03102020T23:27:00	VL034950.D	0.046	05072020T01:25:00	VL034981.D	0.052	05072020T23:48:00	VL035230.D	0.051
03102020T23:27:00	VL034950.D	0.044	05072020T01:25:00	VL034981.D	0.05	05072020T23:48:00	VL035230.D	0.052
03102020T22:50:00	VL034949.D	0.106	05062020T19:33:00	VL034980.D	0.107	05072020T23:10:00	VL035229.D	0.113
03102020T22:50:00	VL034949.D	0.113	05062020T19:33:00	VL034980.D	0.141	05072020T23:10:00	VL035229.D	0.161
03102020T22:50:00	VL034949.D	0.124	05062020T19:33:00	VL034980.D	0.131	05072020T23:10:00	VL035229.D	0.141
03102020T22:50:00	VL034949.D	0.139	05062020T19:33:00	VL034980.D	0.132	05072020T23:10:00	VL035229.D	0.165
03102020T22:50:00	VL034949.D	0.078	05062020T19:33:00	VL034980.D	0.049	05072020T23:10:00	VL035229.D	0.073
03102020T22:50:00	VL034949.D	0.053	05062020T19:33:00	VL034980.D	0.05	05072020T23:10:00	VL035229.D	0.05
03102020T22:50:00	VL034949.D	0.088	05062020T19:33:00	VL034980.D	0.095	05072020T23:10:00	VL035229.D	0.087
03102020T22:50:00	VL034949.D	0.088	05062020T19:33:00	VL034980.D	0.094	05072020T23:10:00	VL035229.D	0.095
03102020T22:50:00	VL034949.D	0.126	05062020T19:33:00	VL034980.D	0.122	05072020T23:10:00	VL035229.D	0.114
03102020T22:50:00	VL034949.D	0.121	05062020T19:33:00	VL034980.D	0.114	05072020T23:10:00	VL035229.D	0.12
03102020T22:50:00	VL034949.D	0.052	05062020T19:33:00	VL034980.D	0.047	05072020T23:10:00	VL035229.D	0.052
03102020T22:50:00	VL034949.D	0.083	05062020T19:33:00	VL034980.D	0.138	05072020T23:10:00	VL035229.D	0.13
03102020T22:50:00	VL034949.D	0.114	05062020T19:33:00	VL034980.D	0.149	05072020T23:10:00	VL035229.D	0.161
03102020T22:50:00	VL034949.D	0.089	05062020T19:33:00	VL034980.D	0.104	05072020T23:10:00	VL035229.D	0.105
03102020T22:12:00	VL034948.D	0.421	05062020T18:55:00	VL034979.D	0.354	05072020T22:32:00	VL035228.D	0.31
03102020T22:50:00	VL034949.D	0.062	05062020T19:33:00	VL034980.D	0.066	05072020T23:10:00	VL035229.D	0.062
03102020T22:50:00	VL034949.D	0.098	05062020T19:33:00	VL034980.D	0.116	05072020T23:10:00	VL035229.D	0.113
03102020T22:50:00	VL034949.D	0.065	05062020T19:33:00	VL034980.D	0.064	05072020T23:10:00	VL035229.D	0.068
03102020T22:50:00	VL034949.D	0.051	05062020T19:33:00	VL034980.D	0.056	05072020T23:10:00	VL035229.D	0.062
03102020T22:50:00	VL034949.D	0.061	05062020T19:33:00	VL034980.D	0.053	05072020T23:10:00	VL035229.D	0.051
03102020T22:50:00	VL034949.D	0.072	05062020T19:33:00	VL034980.D	0.067	05072020T23:10:00	VL035229.D	0.071
03102020T22:12:00	VL034948.D	0.489	05062020T18:55:00	VL034979.D	0.538	05072020T22:32:00	VL035228.D	0.592
03102020T22:50:00	VL034949.D	0.11	05062020T19:33:00	VL034980.D	0.116	05072020T23:10:00	VL035229.D	0.136
03102020T22:50:00	VL034949.D	0.083	05062020T19:33:00	VL034980.D	0.077	05072020T23:10:00	VL035229.D	0.078
03102020T22:12:00	VL034948.D	0.301	05062020T18:55:00	VL034979.D	0.316	05072020T22:32:00	VL035228.D	0.452
03102020T22:50:00	VL034949.D	0.098	05062020T19:33:00	VL034980.D	0.104	05072020T23:10:00	VL035229.D	0.123
03102020T22:50:00	VL034949.D	0.096	05062020T19:33:00	VL034980.D	0.102	05072020T23:10:00	VL035229.D	0.132
03102020T22:50:00	VL034949.D	0.071	05062020T19:33:00	VL034980.D	0.077	05072020T23:10:00	VL035229.D	0.103
03102020T22:50:00	VL034949.D	0.116	05062020T19:33:00	VL034980.D	0.156	05072020T23:10:00	VL035229.D	0.152
03102020T22:50:00	VL034949.D	0.091	05062020T19:33:00	VL034980.D	0.119	05072020T23:10:00	VL035229.D	0.141
03102020T23:27:00	VL034950.D	0.048	05072020T01:25:00	VL034981.D	0.051	05072020T23:48:00	VL035230.D	0.053
03102020T22:50:00	VL034949.D	0.111	05062020T19:33:00	VL034980.D	0.126	05072020T23:10:00	VL035229.D	0.138
03102020T22:50:00	VL034949.D	0.126	05062020T19:33:00	VL034980.D	0.129	05072020T23:10:00	VL035229.D	0.148
03102020T22:50:00	VL034949.D	0.141	05062020T19:33:00	VL034980.D	0.137	05072020T23:10:00	VL035229.D	0.137
03102020T22:50:00	VL034949.D	0.119	05062020T19:33:00	VL034980.D	0.13	05072020T23:10:00	VL035229.D	0.136
03102020T22:50:00	VL034949.D	0.11	05062020T19:33:00	VL034980.D	0.128	05072020T23:10:00	VL035229.D	0.16
03102020T22:50:00	VL034949.D	0.087	05062020T19:33:00	VL034980.D	0.096	05072020T23:10:00	VL035229.D	0.084
03102020T22:50:00	VL034949.D	0.07	05062020T19:33:00	VL034980.D	0.074	05072020T23:10:00	VL035229.D	0.066
03102020T22:50:00	VL034949.D	0.135	05062020T19:33:00	VL034980.D	0.126	05072020T23:10:00	VL035229.D	0.132
03102020T22:50:00	VL034949.D	0.076	05062020T19:33:00	VL034980.D	0.086	05072020T23:10:00	VL035229.D	0.088
03102020T22:50:00	VL034949.D	0.147	05062020T19:33:00	VL034980.D	0.189	05072020T23:10:00	VL035229.D	0.181
03102020T22:50:00	VL034949.D	0.12	05062020T19:33:00	VL034980.D	0.128	05072020T23:10:00	VL035229.D	0.151
03102020T22:12:00	VL034948.D	0.53	05062020T18:55:00	VL034979.D	0.506	05072020T22:32:00	VL035228.D	0.557
03102020T22:50:00	VL034949.D	0.102	05062020T19:33:00	VL034980.D	0.107	05072020T23:10:00	VL035229.D	0.11
03102020T22:50:00	VL034949.D	0.056	05062020T19:33:00	VL034980.D	0.065	05072020T23:10:00	VL035229.D	0.057
03102020T22:50:00	VL034949.D	0.065	05062020T19:33:00	VL034980.D	0.065	05072020T23:10:00	VL035229.D	0.065
03102020T22:50:00	VL034949.D	0.131	05062020T19:33:00	VL034980.D	0.139	05072020T23:10:00	VL035229.D	0.138
03102020T22:50:00	VL034949.D	0.102	05062020T19:33:00	VL034980.D	0.108	05072020T23:10:00	VL035229.D	0.1
03102020T22:50:00	VL034949.D	0.149	05062020T19:33:00	VL034980.D	0.144	05072020T23:10:00	VL035229.D	0.169
03102020T22:50:00	VL034949.D	0.069	05062020T19:33:00	VL034980.D	0.073	05072020T23:10:00	VL035229.D	0.06
03102020T22:50:00	VL034949.D	0.117	05062020T19:33:00	VL034980.D	0.12	05072020T23:10:00	VL035229.D	0.118
03102020T22:50:00	VL034949.D	0.072	05062020T19:33:00	VL034980.D	0.07	05072020T23:10:00	VL035229.D	0.062
03102020T22:50:00	VL034949.D	0.087	05062020T19:33:00	VL034980.D	0.094	05072020T23:10:00	VL035229.D	0.086
03102020T22:12:00	VL034948.D	0.466	05062020T18:55:00	VL034979.D	0.543	05072020T22:32:00	VL035228.D	0.648
03102020T22:50:00	VL034949.D	0	05062020T19:33:00	VL034980.D	0.036	05072020T23:10:00	VL035229.D	0.057
03102020T22:12:00	VL034948.D	0.243	05062020T18:55:00	VL034979.D	0.161	05072020T22:32:00	VL035228.D	0.217
03102020T22:50:00	VL034949.D	0.057	05062020T19:33:00	VL034980.D	0.048	05072020T23:10:00	VL035229.D	0.057
03102020T22:50:00	VL034949.D	0.052	05062020T19:33:00	VL034980.D	0.057	05072020T23:10:00	VL035229.D	0.051
03102020T22:50:00	VL034949.D	0.056	05062020T19:33:00	VL034980.D	0.062	05072020T23:10:00	VL035229.D	0.058
03102020T22:50:00	VL034949.D	0.05	05062020T19:33:00	VL034980.D	0.049	05072020T23:10:00	VL035229.D	0.054
03102020T22:50:00	VL034949.D	0.139	05062020T19:33:00	VL034980.D	0.143	05072020T23:10:00	VL035229.D	0.16
03102020T22:50:00	VL034949.D	0.055	05062020T19:33:00	VL034980.D	0.061	05072020T23:10:00	VL035229.D	0.069
03102020T22:50:00	VL034949.D	0.049	05062020T19:33:00	VL034980.D	0.05	05072020T23:10:00	VL035229.D	0.055
03102020T22:50:00	VL034949.D	0.059	05062020T19:33:00	VL034980.D	0.06	05072020T23:10:00	VL035229.D	0.079
03102020T22:50:00	VL034949.D	0.125	05062020T19:33:00	VL034980.D	0.134	05072020T23:10:00	VL035229.D	0.158
03102020T22:50:00	VL034949.D	0.051	05062020T19:33:00	VL034980.D	0.049	05072020T23:10:00	VL035229.D	0.048
03102020T23:27:00	VL034950.D	0.043	05072020T01:25:00	VL034981.D	0.042	05072020T23:48:00	VL035230.D	0.044
03102020T22:50:00	VL034949.D	0.064	05062020T19:33:00	VL034980.D	0.068	05072020T23:10:00	VL035229.D	0.085
03102020T22:50:00	VL034949.D	0.055	05062020T19:33:00	VL034980.D	0.062	05072020T23:10:00	VL035229.D	0.06
03102020T22:50:00	VL034949.D	0.111	05062020T19:33:00	VL034980.D	0.141	05072020T23:10:00	VL035229.D	0.175
03102020T23:27:00	VL034950.D	0.046	05072020T01:25:00	VL034981.D	0.037	05072020T23:48:00	VL035230.D	0.051
03102020T22:50:00	VL034949.D	0.113	05062020T19:33:00	VL034980.D	0.133	05072020T23:10:00	VL035229.D	0.146
03102020T22:50:00	VL034949.D	0.094	05062020T19:33:00	VL034980.D	0.094	05072020T23:10:00	VL035229.D	0.108
03102020T23:27:00	VL034950.D	0.022	05072020T01:25:00	VL034981.D	0.043	05072020T23:48:00	VL035230.D	0.038

Adate5	Datafile6	Concentration6	Adate6	Datafile7	Concentration7	Adate7	Datafile8	Concentration8
07232020T15:10:00	VL035290.D	0.112	07302020T21:56:00	VL035775.D	0.108	10122020T23:37:00	VL035794.D	0.102
07232020T15:48:00	VL035291.D	0.05	07302020T22:33:00	VL035776.D	0.043	10132020T00:14:00	VL035795.D	0.039
07232020T15:48:00	VL035291.D	0.041	07302020T22:33:00	VL035776.D	0.044	10132020T00:14:00	VL035795.D	0.045
07232020T15:10:00	VL035290.D	0.122	07302020T21:56:00	VL035775.D	0.116	10122020T23:37:00	VL035794.D	0.096
07232020T15:10:00	VL035290.D	0.135	07302020T21:56:00	VL035775.D	0.13	10122020T23:37:00	VL035794.D	0.111
07232020T15:10:00	VL035290.D	0.123	07302020T21:56:00	VL035775.D	0.128	10122020T23:37:00	VL035794.D	0.112
07232020T15:10:00	VL035290.D	0.132	07302020T21:56:00	VL035775.D	0.121	10122020T23:37:00	VL035794.D	0.102
07232020T15:10:00	VL035290.D	0.073	07302020T21:56:00	VL035775.D	0.094	10122020T23:37:00	VL035794.D	0.066
07232020T15:10:00	VL035290.D	0.045	07302020T21:56:00	VL035775.D	0.063	10122020T23:37:00	VL035794.D	0.05
07232020T15:10:00	VL035290.D	0.092	07302020T21:56:00	VL035775.D	0.108	10122020T23:37:00	VL035794.D	0.093
07232020T15:10:00	VL035290.D	0.088	07302020T21:56:00	VL035775.D	0.104	10122020T23:37:00	VL035794.D	0.077
07232020T15:10:00	VL035290.D	0.115	07302020T21:56:00	VL035775.D	0.125	10122020T23:37:00	VL035794.D	0.103
07232020T15:10:00	VL035290.D	0.121	07302020T21:56:00	VL035775.D	0.107	10122020T23:37:00	VL035794.D	0.113
07232020T15:10:00	VL035290.D	0.052	07302020T21:56:00	VL035775.D	0.061	10122020T23:37:00	VL035794.D	0.045
07232020T15:10:00	VL035290.D	0.11	07302020T21:56:00	VL035775.D	0.131	10122020T23:37:00	VL035794.D	0.098
07232020T15:10:00	VL035290.D	0.146	07302020T21:56:00	VL035775.D	0.133	10122020T23:37:00	VL035794.D	0.119
07232020T15:10:00	VL035290.D	0.104	07302020T21:56:00	VL035775.D	0.108	10122020T23:37:00	VL035794.D	0.089
07232020T14:33:00	VL035289.D	0.331	07302020T21:19:00	VL035774.D	0.5	10122020T23:00:00	VL035793.D	0.322
07232020T15:10:00	VL035290.D	0.059	07302020T21:56:00	VL035775.D	0.078	10122020T23:37:00	VL035794.D	0.06
07232020T15:10:00	VL035290.D	0.103	07302020T21:56:00	VL035775.D	0.113	10122020T23:37:00	VL035794.D	0.1
07232020T15:10:00	VL035290.D	0.062	07302020T21:56:00	VL035775.D	0.079	10122020T23:37:00	VL035794.D	0.059
07232020T15:10:00	VL035290.D	0.049	07302020T21:56:00	VL035775.D	0.072	10122020T23:37:00	VL035794.D	0.056
07232020T15:10:00	VL035290.D	0.052	07302020T21:56:00	VL035775.D	0.062	10122020T23:37:00	VL035794.D	0.042
07232020T15:10:00	VL035290.D	0.062	07302020T21:56:00	VL035775.D	0.075	10122020T23:37:00	VL035794.D	0.065
07232020T14:33:00	VL035289.D	0.533	07302020T21:19:00	VL035774.D	0.588	10122020T23:00:00	VL035793.D	0.539
07232020T15:10:00	VL035290.D	0.15	07302020T21:56:00	VL035775.D	0.118	10122020T23:37:00	VL035794.D	0.1
07232020T15:10:00	VL035290.D	0.08	07302020T21:56:00	VL035775.D	0.096	10122020T23:37:00	VL035794.D	0.068
07232020T14:33:00	VL035289.D	0.356	07302020T21:19:00	VL035774.D	0.343	10122020T23:00:00	VL035793.D	0.317
07232020T15:10:00	VL035290.D	0.111	07302020T21:56:00	VL035775.D	0.102	10122020T23:37:00	VL035794.D	0.095
07232020T15:10:00	VL035290.D	0.114	07302020T21:56:00	VL035775.D	0.121	10122020T23:37:00	VL035794.D	0.102
07232020T15:10:00	VL035290.D	0.083	07302020T21:56:00	VL035775.D	0.069	10122020T23:37:00	VL035794.D	0.069
07232020T15:10:00	VL035290.D	0.159	07302020T21:56:00	VL035775.D	0.13	10122020T23:37:00	VL035794.D	0.113
07232020T15:10:00	VL035290.D	0.112	07302020T21:56:00	VL035775.D	0.107	10122020T23:37:00	VL035794.D	0.095
07232020T15:48:00	VL035291.D	0.044	07302020T22:33:00	VL035776.D	0.039	10132020T00:14:00	VL035795.D	0.042
07232020T15:10:00	VL035290.D	0.127	07302020T21:56:00	VL035775.D	0.132	10122020T23:37:00	VL035794.D	0.114
07232020T15:10:00	VL035290.D	0.135	07302020T21:56:00	VL035775.D	0.132	10122020T23:37:00	VL035794.D	0.114
07232020T15:10:00	VL035290.D	0.139	07302020T21:56:00	VL035775.D	0.124	10122020T23:37:00	VL035794.D	0.115
07232020T15:10:00	VL035290.D	0.142	07302020T21:56:00	VL035775.D	0.133	10122020T23:37:00	VL035794.D	0.114
07232020T15:10:00	VL035290.D	0.142	07302020T21:56:00	VL035775.D	0.142	10122020T23:37:00	VL035794.D	0.116
07232020T15:10:00	VL035290.D	0.097	07302020T21:56:00	VL035775.D	0.111	10122020T23:37:00	VL035794.D	0.074
07232020T15:10:00	VL035290.D	0.069	07302020T21:56:00	VL035775.D	0.076	10122020T23:37:00	VL035794.D	0.065
07232020T15:10:00	VL035290.D	0.133	07302020T21:56:00	VL035775.D	0.114	10122020T23:37:00	VL035794.D	0.098
07232020T15:10:00	VL035290.D	0.088	07302020T21:56:00	VL035775.D	0.08	10122020T23:37:00	VL035794.D	0.078
07232020T15:10:00	VL035290.D	0.209	07302020T21:56:00	VL035775.D	0.195	10122020T23:37:00	VL035794.D	0.161
07232020T15:10:00	VL035290.D	0.156	07302020T21:56:00	VL035775.D	0.135	10122020T23:37:00	VL035794.D	0.116
07232020T14:33:00	VL035289.D	0.529	07302020T21:19:00	VL035774.D	0.51	10122020T23:00:00	VL035793.D	0.549
07232020T15:10:00	VL035290.D	0.109	07302020T21:56:00	VL035775.D	0.115	10122020T23:37:00	VL035794.D	0.102
07232020T15:10:00	VL035290.D	0.067	07302020T21:56:00	VL035775.D	0.078	10122020T23:37:00	VL035794.D	0.058
07232020T15:10:00	VL035290.D	0.056	07302020T21:56:00	VL035775.D	0.071	10122020T23:37:00	VL035794.D	0.056
07232020T15:10:00	VL035290.D	0.13	07302020T21:56:00	VL035775.D	0.14	10122020T23:37:00	VL035794.D	0.122
07232020T15:10:00	VL035290.D	0.095	07302020T21:56:00	VL035775.D	0.114	10122020T23:37:00	VL035794.D	0.091
07232020T15:10:00	VL035290.D	0.143	07302020T21:56:00	VL035775.D	0.168	10122020T23:37:00	VL035794.D	0.134
07232020T15:10:00	VL035290.D	0.062	07302020T21:56:00	VL035775.D	0.081	10122020T23:37:00	VL035794.D	0.064
07232020T15:10:00	VL035290.D	0.104	07302020T21:56:00	VL035775.D	0.148	10122020T23:37:00	VL035794.D	0.109
07232020T15:10:00	VL035290.D	0.073	07302020T21:56:00	VL035775.D	0.07	10122020T23:37:00	VL035794.D	0.058
07232020T15:10:00	VL035290.D	0.087	07302020T21:56:00	VL035775.D	0.101	10122020T23:37:00	VL035794.D	0.07
07232020T14:33:00	VL035289.D	0.626	07302020T21:19:00	VL035774.D	0.592	10122020T23:00:00	VL035793.D	0.526
07232020T15:10:00	VL035290.D	0.055	07302020T21:56:00	VL035775.D	0.066	10122020T23:37:00	VL035794.D	0.045
07232020T14:33:00	VL035289.D	0.245	07302020T21:19:00	VL035774.D	0.339	10122020T23:00:00	VL035793.D	0.229
07232020T15:10:00	VL035290.D	0.056	07302020T21:56:00	VL035775.D	0.063	10122020T23:37:00	VL035794.D	0.045
07232020T15:10:00	VL035290.D	0.045	07302020T21:56:00	VL035775.D	0.061	10122020T23:37:00	VL035794.D	0.043
07232020T15:10:00	VL035290.D	0.055	07302020T21:56:00	VL035775.D	0.08	10122020T23:37:00	VL035794.D	0.069
07232020T15:10:00	VL035290.D	0.048	07302020T21:56:00	VL035775.D	0.056	10122020T23:37:00	VL035794.D	0.04
07232020T15:10:00	VL035290.D	0.158	07302020T21:56:00	VL035775.D	0.188	10122020T23:37:00	VL035794.D	0.162
07232020T15:10:00	VL035290.D	0.062	07302020T21:56:00	VL035775.D	0.07	10122020T23:37:00	VL035794.D	0.052
07232020T15:10:00	VL035290.D	0.056	07302020T21:56:00	VL035775.D	0.056	10122020T23:37:00	VL035794.D	0.038
07232020T15:10:00	VL035290.D	0.073	07302020T21:56:00	VL035775.D	0.068	10122020T23:37:00	VL035794.D	0.055
07232020T15:10:00	VL035290.D	0.132	07302020T21:56:00	VL035775.D	0.148	10122020T23:37:00	VL035794.D	0.119
07232020T15:10:00	VL035290.D	0.054	07302020T21:56:00	VL035775.D	0.067	10122020T23:37:00	VL035794.D	0.046
07232020T15:48:00	VL035291.D	0.053	07302020T22:33:00	VL035776.D	0.039	10132020T00:14:00	VL035795.D	0.037
07232020T15:10:00	VL035290.D	0.065	07302020T21:56:00	VL035775.D	0.07	10122020T23:37:00	VL035794.D	0.054
07232020T15:10:00	VL035290.D	0.061	07302020T21:56:00	VL035775.D	0.075	10122020T23:37:00	VL035794.D	0.056
07232020T15:10:00	VL035290.D	0.172	07302020T21:56:00	VL035775.D	0.128	10122020T23:37:00	VL035794.D	0.107
07232020T15:48:00	VL035291.D	0.035	07302020T22:33:00	VL035776.D	0.041	10132020T00:14:00	VL035795.D	0.039
07232020T15:10:00	VL035290.D	0.149	07302020T21:56:00	VL035775.D	0.13	10122020T23:37:00	VL035794.D	0.116
07232020T15:10:00	VL035290.D	0.084	07302020T21:56:00	VL035775.D	0.122	10122020T23:37:00	VL035794.D	0.085
07232020T15:48:00	VL035291.D	0.051	07302020T22:33:00	VL035776.D	0.044	10132020T00:14:00	VL035795.D	0.046

Adate8	Datafile9	Concentration9	Adate9	Datafile10	Concentration10	Adate10	Datafile11	Concentration11
10192020T14:39:00	VL033447.D	0.09	03252019T22:06:00	VL033468.D	0.11	03272019T14:45:00	VL033594.D	0.086
10192020T15:16:00	VL033448.D	0.034	03252019T22:44:00	VL033469.D	0.039	03272019T15:23:00	VL033607.D	0.042
10192020T15:16:00	VL033448.D	0.036	03252019T22:44:00	VL033469.D	0.038	03272019T15:23:00	VL033607.D	0.033
10192020T14:39:00	VL033447.D	0.1	03252019T22:06:00	VL033468.D	0.11	03272019T14:45:00	VL033594.D	0.085
10192020T14:39:00	VL033447.D	0.11	03252019T22:06:00	VL033468.D	0.11	03272019T14:45:00	VL033594.D	0.098
10192020T14:39:00	VL033447.D	0.11	03252019T22:06:00	VL033468.D	0.11	03272019T14:45:00	VL033594.D	0.089
10192020T14:39:00	VL033447.D	0.11	03252019T22:06:00	VL033468.D	0.13	03272019T14:45:00	VL033594.D	0.097
10192020T14:39:00	VL033447.D	0.05	03252019T22:06:00	VL033468.D	0.08	03272019T14:45:00	VL033594.D	0.037
10192020T14:39:00	VL033447.D	0.05	03252019T22:06:00	VL033468.D	0.06	03272019T14:45:00	VL033594.D	0.035
10192020T14:39:00	VL033447.D	0.08	03252019T22:06:00	VL033468.D	0.1	03272019T14:45:00	VL033594.D	0.064
10192020T14:39:00	VL033447.D	0.08	03252019T22:06:00	VL033468.D	0.11	03272019T14:45:00	VL033594.D	0.065
10192020T14:39:00	VL033447.D	0.11	03252019T22:06:00	VL033468.D	0.11	03272019T14:45:00	VL033594.D	0.086
10192020T14:39:00	VL033447.D	0.11	03252019T22:06:00	VL033468.D	0.09	03272019T14:45:00	VL033594.D	0.079
10192020T14:39:00	VL033447.D	0.05	03252019T22:06:00	VL033468.D	0.06	03272019T14:45:00	VL033594.D	0.037
10192020T14:39:00	VL033447.D	0.11	03252019T22:06:00	VL033468.D	0.12	03272019T14:45:00	VL033594.D	0.095
10192020T14:39:00	VL033447.D	0.1	03252019T22:06:00	VL033468.D	0.11	03272019T14:45:00	VL033594.D	0.088
10192020T14:39:00	VL033447.D	0.08	03252019T22:06:00	VL033468.D	0.1	03272019T14:45:00	VL033594.D	0.07
10192020T14:03:00	VL033446.D	0.6	03252019T21:28:00	VL033467.D	0.48	03272019T14:08:00	VL033605.D	0.612
10192020T14:39:00	VL033447.D	0.06	03252019T22:06:00	VL033468.D	0.08	03272019T14:45:00	VL033594.D	0.054
10192020T14:39:00	VL033447.D	0.09	03252019T22:06:00	VL033468.D	0.1	03272019T14:45:00	VL033594.D	0.075
10192020T14:39:00	VL033447.D	0.06	03252019T22:06:00	VL033468.D	0.08	03272019T14:45:00	VL033594.D	0.048
10192020T14:39:00	VL033447.D	0.05	03252019T22:06:00	VL033468.D	0.06	03272019T14:45:00	VL033594.D	0.037
10192020T14:39:00	VL033447.D	0.05	03252019T22:06:00	VL033468.D	0.06	03272019T14:45:00	VL033594.D	0.035
10192020T14:39:00	VL033447.D	0.06	03252019T22:06:00	VL033468.D	0.07	03272019T14:45:00	VL033594.D	0.061
10192020T14:03:00	VL033446.D	0.248	03252019T21:28:00	VL033467.D	0.252	03272019T14:08:00	VL033605.D	0.26
10192020T14:39:00	VL033447.D	0.1	03252019T22:06:00	VL033468.D	0.12	03272019T14:45:00	VL033594.D	0.083
10192020T14:39:00	VL033447.D	0.08	03252019T22:06:00	VL033468.D	0.09	03272019T14:45:00	VL033594.D	0.069
10192020T14:03:00	VL033446.D	0.47	03252019T21:28:00	VL033467.D	0.43	03272019T14:08:00	VL033605.D	0.554
10192020T14:39:00	VL033447.D	0.09	03252019T22:06:00	VL033468.D	0.1	03272019T14:45:00	VL033594.D	0.076
10192020T14:39:00	VL033447.D	0.12	03252019T22:06:00	VL033468.D	0.11	03272019T14:45:00	VL033594.D	0.086
10192020T14:39:00	VL033447.D	0.06	03252019T22:06:00	VL033468.D	0.08	03272019T14:45:00	VL033594.D	0.045
10192020T14:39:00	VL033447.D	0.13	03252019T22:06:00	VL033468.D	0.11	03272019T14:45:00	VL033594.D	0.103
10192020T14:39:00	VL033447.D	0.09	03252019T22:06:00	VL033468.D	0.1	03272019T14:45:00	VL033594.D	0.07
10192020T15:16:00	VL033448.D	0.039	03252019T22:44:00	VL033469.D	0.035	03272019T15:23:00	VL033607.D	0.042
10192020T14:39:00	VL033447.D	0.11	03252019T22:06:00	VL033468.D	0.13	03272019T14:45:00	VL033594.D	0.095
10192020T14:39:00	VL033447.D	0.12	03252019T22:06:00	VL033468.D	0.13	03272019T14:45:00	VL033594.D	0.112
10192020T14:39:00	VL033447.D	0.14	03252019T22:06:00	VL033468.D	0.16	03272019T14:45:00	VL033594.D	0.111
10192020T14:39:00	VL033447.D	0.11	03252019T22:06:00	VL033468.D	0.12	03272019T14:45:00	VL033594.D	0.099
10192020T14:39:00	VL033447.D	0.12	03252019T22:06:00	VL033468.D	0.14	03272019T14:45:00	VL033594.D	0.1
10192020T14:39:00	VL033447.D	0.08	03252019T22:06:00	VL033468.D	0.09	03272019T14:45:00	VL033594.D	0.071
10192020T14:39:00	VL033447.D	0.07	03252019T22:06:00	VL033468.D	0.07	03272019T14:45:00	VL033594.D	0.057
10192020T14:39:00	VL033447.D	0.11	03252019T22:06:00	VL033468.D	0.17	03272019T14:45:00	VL033594.D	0.12
10192020T14:39:00	VL033447.D	0.08	03252019T22:06:00	VL033468.D	0.08	03272019T14:45:00	VL033594.D	0.058
10192020T14:39:00	VL033447.D	0.15	03252019T22:06:00	VL033468.D	0.18	03272019T14:45:00	VL033594.D	0.125
10192020T14:39:00	VL033447.D	0.12	03252019T22:06:00	VL033468.D	0.13	03272019T14:45:00	VL033594.D	0.094
10192020T14:03:00	VL033446.D	0.462	03252019T21:28:00	VL033467.D	0.444	03272019T14:08:00	VL033605.D	0.343
10192020T14:39:00	VL033447.D	0.09	03252019T22:06:00	VL033468.D	0.11	03272019T14:45:00	VL033594.D	0.082
10192020T14:39:00	VL033447.D	0.07	03252019T22:06:00	VL033468.D	0.07	03272019T14:45:00	VL033594.D	0.047
10192020T14:39:00	VL033447.D	0.07	03252019T22:06:00	VL033468.D	0.08	03272019T14:45:00	VL033594.D	0.053
10192020T14:39:00	VL033447.D	0.11	03252019T22:06:00	VL033468.D	0.13	03272019T14:45:00	VL033594.D	0.097
10192020T14:39:00	VL033447.D	0.1	03252019T22:06:00	VL033468.D	0.1	03272019T14:45:00	VL033594.D	0.076
10192020T14:39:00	VL033447.D	0.13	03252019T22:06:00	VL033468.D	0.16	03272019T14:45:00	VL033594.D	0.107
10192020T14:39:00	VL033447.D	0.07	03252019T22:06:00	VL033468.D	0.08	03272019T14:45:00	VL033594.D	0.056
10192020T14:39:00	VL033447.D	0.12	03252019T22:06:00	VL033468.D	0.12	03272019T14:45:00	VL033594.D	0.096
10192020T14:39:00	VL033447.D	0.06	03252019T22:06:00	VL033468.D	0.07	03272019T14:45:00	VL033594.D	0.044
10192020T14:39:00	VL033447.D	0.08	03252019T22:06:00	VL033468.D	0.1	03272019T14:45:00	VL033594.D	0.061
10192020T14:03:00	VL033446.D	0.49	03252019T21:28:00	VL033467.D	0.51	03272019T14:08:00	VL033605.D	0.533
10192020T14:39:00	VL033447.D	0.04	03252019T22:06:00	VL033468.D	0.05	03272019T14:45:00	VL033594.D	0
10192020T14:03:00	VL033446.D	0.068	03252019T21:28:00	VL033467.D	0.143	03272019T14:08:00	VL033605.D	0
10192020T14:39:00	VL033447.D	0.06	03252019T22:06:00	VL033468.D	0.06	03272019T14:45:00	VL033594.D	0.032
10192020T14:39:00	VL033447.D	0.05	03252019T22:06:00	VL033468.D	0.08	03272019T14:45:00	VL033594.D	0.042
10192020T14:39:00	VL033447.D	0.06	03252019T22:06:00	VL033468.D	0.06	03272019T14:45:00	VL033594.D	0.045
10192020T14:39:00	VL033447.D	0.05	03252019T22:06:00	VL033468.D	0.05	03272019T14:45:00	VL033594.D	0.033
10192020T14:39:00	VL033447.D	0.13	03252019T22:06:00	VL033468.D	0.13	03272019T14:45:00	VL033594.D	0.094
10192020T14:39:00	VL033447.D	0.05	03252019T22:06:00	VL033468.D	0.07	03272019T14:45:00	VL033594.D	0.049
10192020T14:39:00	VL033447.D	0.05	03252019T22:06:00	VL033468.D	0.06	03272019T14:45:00	VL033594.D	0.044
10192020T14:39:00	VL033447.D	0.05	03252019T22:06:00	VL033468.D	0.07	03272019T14:45:00	VL033594.D	0.046
10192020T14:39:00	VL033447.D	0.11	03252019T22:06:00	VL033468.D	0.14	03272019T14:45:00	VL033594.D	0.134
10192020T14:39:00	VL033447.D	0.06	03252019T22:06:00	VL033468.D	0.06	03272019T14:45:00	VL033594.D	0.037
10192020T15:16:00	VL033448.D	0.025	03252019T22:44:00	VL033469.D	0.039	03272019T15:23:00	VL033607.D	0.026
10192020T14:39:00	VL033447.D	0.06	03252019T22:06:00	VL033468.D	0.08	03272019T14:45:00	VL033594.D	0.049
10192020T14:39:00	VL033447.D	0.06	03252019T22:06:00	VL033468.D	0.07	03272019T14:45:00	VL033594.D	0.046
10192020T14:39:00	VL033447.D	0.11	03252019T22:06:00	VL033468.D	0.12	03272019T14:45:00	VL033594.D	0.092
10192020T15:16:00	VL033448.D	0.04	03252019T22:44:00	VL033469.D	0.035	03272019T15:23:00	VL033607.D	0.033
10192020T14:39:00	VL033447.D	0.12	03252019T22:06:00	VL033468.D	0.13	03272019T14:45:00	VL033594.D	0.1
10192020T14:39:00	VL033447.D	0.1	03252019T22:06:00	VL033468.D	0.1	03272019T14:45:00	VL033594.D	0.057
10192020T15:16:00	VL033448.D	0.048	03252019T22:44:00	VL033469.D	0.039	03272019T15:23:00	VL033607.D	0.051

Adate11	Datafile12	Concentration12	Adate12	Datafile13	Concentration13	Adate13	Datafile14	Concentration14
04162019T16:14:00	VL033681.D	0.13	05072019T14:17:00	VL034004.D	0.12	07032019T03:47:00	VL034012.D	0.11
04172019T18:09:00	VL033665.D	0.037	05062019T19:09:00	VL034005.D	0.046	07032019T04:24:00	VL034013.D	0.047
04172019T18:09:00	VL033665.D	0.038	05062019T19:09:00	VL034005.D	0.038	07032019T04:24:00	VL034013.D	0.038
04162019T16:14:00	VL033681.D	0.1	05072019T14:17:00	VL034004.D	0.11	07032019T03:47:00	VL034012.D	0.12
04162019T16:14:00	VL033681.D	0.13	05072019T14:17:00	VL034004.D	0.13	07032019T03:47:00	VL034012.D	0.12
04162019T16:14:00	VL033681.D	0.11	05072019T14:17:00	VL034004.D	0.12	07032019T03:47:00	VL034012.D	0.11
04162019T16:14:00	VL033681.D	0.13	05072019T14:17:00	VL034004.D	0.12	07032019T03:47:00	VL034012.D	0.11
04162019T16:14:00	VL033681.D	0.09	05072019T14:17:00	VL034004.D	0.08	07032019T03:47:00	VL034012.D	0.08
04162019T16:14:00	VL033681.D	0.05	05072019T14:17:00	VL034004.D	0.05	07032019T03:47:00	VL034012.D	0.05
04162019T16:14:00	VL033681.D	0.09	05072019T14:17:00	VL034004.D	0.09	07032019T03:47:00	VL034012.D	0.09
04162019T16:14:00	VL033681.D	0.09	05072019T14:17:00	VL034004.D	0.08	07032019T03:47:00	VL034012.D	0.09
04162019T16:14:00	VL033681.D	0.12	05072019T14:17:00	VL034004.D	0.1	07032019T03:47:00	VL034012.D	0.11
04162019T16:14:00	VL033681.D	0.12	05072019T14:17:00	VL034004.D	0.14	07032019T03:47:00	VL034012.D	0.1
04162019T16:14:00	VL033681.D	0.06	05072019T14:17:00	VL034004.D	0.05	07032019T03:47:00	VL034012.D	0.05
04162019T16:14:00	VL033681.D	0.11	05072019T14:17:00	VL034004.D	0.12	07032019T03:47:00	VL034012.D	0.11
04162019T16:14:00	VL033681.D	0.13	05072019T14:17:00	VL034004.D	0.13	07032019T03:47:00	VL034012.D	0.12
04162019T16:14:00	VL033681.D	0.11	05072019T14:17:00	VL034004.D	0.08	07032019T03:47:00	VL034012.D	0.1
04172019T16:53:00	VL033666.D	0.472	05062019T19:48:00	VL034003.D	0.459	07032019T03:10:00	VL034011.D	0.5
04162019T16:14:00	VL033681.D	0.07	05072019T14:17:00	VL034004.D	0.06	07032019T03:47:00	VL034012.D	0.07
04162019T16:14:00	VL033681.D	0.1	05072019T14:17:00	VL034004.D	0.09	07032019T03:47:00	VL034012.D	0.1
04162019T16:14:00	VL033681.D	0.07	05072019T14:17:00	VL034004.D	0.06	07032019T03:47:00	VL034012.D	0.05
04162019T16:14:00	VL033681.D	0.06	05072019T14:17:00	VL034004.D	0.05	07032019T03:47:00	VL034012.D	0.04
04162019T16:14:00	VL033681.D	0.06	05072019T14:17:00	VL034004.D	0.04	07032019T03:47:00	VL034012.D	0.05
04162019T16:14:00	VL033681.D	0.09	05072019T14:17:00	VL034004.D	0.06	07032019T03:47:00	VL034012.D	0.07
04172019T16:53:00	VL033666.D	0.332	05062019T19:48:00	VL034003.D	0.312	07032019T03:10:00	VL034011.D	0.283
04162019T16:14:00	VL033681.D	0.12	05072019T14:17:00	VL034004.D	0.13	07032019T03:47:00	VL034012.D	0.12
04162019T16:14:00	VL033681.D	0.1	05072019T14:17:00	VL034004.D	0.09	07032019T03:47:00	VL034012.D	0.09
04172019T16:53:00	VL033666.D	0.427	05062019T19:48:00	VL034003.D	0.439	07032019T03:10:00	VL034011.D	0.5
04162019T16:14:00	VL033681.D	0.12	05072019T14:17:00	VL034004.D	0.11	07032019T03:47:00	VL034012.D	0.1
04162019T16:14:00	VL033681.D	0.12	05072019T14:17:00	VL034004.D	0.14	07032019T03:47:00	VL034012.D	0.11
04162019T16:14:00	VL033681.D	0.08	05072019T14:17:00	VL034004.D	0.08	07032019T03:47:00	VL034012.D	0.09
04162019T16:14:00	VL033681.D	0.12	05072019T14:17:00	VL034004.D	0.14	07032019T03:47:00	VL034012.D	0.12
04162019T16:14:00	VL033681.D	0.1	05072019T14:17:00	VL034004.D	0.11	07032019T03:47:00	VL034012.D	0.1
04172019T18:09:00	VL033665.D	0.036	05062019T19:09:00	VL034005.D	0.05	07032019T04:24:00	VL034013.D	0.044
04162019T16:14:00	VL033681.D	0.12	05072019T14:17:00	VL034004.D	0.12	07032019T03:47:00	VL034012.D	0.12
04162019T16:14:00	VL033681.D	0.13	05072019T14:17:00	VL034004.D	0.14	07032019T03:47:00	VL034012.D	0.14
04162019T16:14:00	VL033681.D	0.13	05072019T14:17:00	VL034004.D	0.14	07032019T03:47:00	VL034012.D	0.16
04162019T16:14:00	VL033681.D	0.12	05072019T14:17:00	VL034004.D	0.13	07032019T03:47:00	VL034012.D	0.11
04162019T16:14:00	VL033681.D	0.13	05072019T14:17:00	VL034004.D	0.13	07032019T03:47:00	VL034012.D	0.14
04162019T16:14:00	VL033681.D	0.1	05072019T14:17:00	VL034004.D	0.1	07032019T03:47:00	VL034012.D	0.11
04162019T16:14:00	VL033681.D	0.07	05072019T14:17:00	VL034004.D	0.08	07032019T03:47:00	VL034012.D	0.08
04162019T16:14:00	VL033681.D	0.1	05072019T14:17:00	VL034004.D	0.13	07032019T03:47:00	VL034012.D	0.17
04162019T16:14:00	VL033681.D	0.09	05072019T14:17:00	VL034004.D	0.09	07032019T03:47:00	VL034012.D	0.09
04162019T16:14:00	VL033681.D	0.13	05072019T14:17:00	VL034004.D	0.17	07032019T03:47:00	VL034012.D	0.16
04162019T16:14:00	VL033681.D	0.13	05072019T14:17:00	VL034004.D	0.15	07032019T03:47:00	VL034012.D	0.13
04172019T16:53:00	VL033666.D	0.394	05062019T19:48:00	VL034003.D	0.318	07032019T03:10:00	VL034011.D	0.351
04162019T16:14:00	VL033681.D	0.11	05072019T14:17:00	VL034004.D	0.1	07032019T03:47:00	VL034012.D	0.11
04162019T16:14:00	VL033681.D	0.07	05072019T14:17:00	VL034004.D	0.06	07032019T03:47:00	VL034012.D	0.06
04162019T16:14:00	VL033681.D	0.07	05072019T14:17:00	VL034004.D	0.07	07032019T03:47:00	VL034012.D	0.07
04162019T16:14:00	VL033681.D	0.14	05072019T14:17:00	VL034004.D	0.15	07032019T03:47:00	VL034012.D	0.16
04162019T16:14:00	VL033681.D	0.11	05072019T14:17:00	VL034004.D	0.1	07032019T03:47:00	VL034012.D	0.1
04162019T16:14:00	VL033681.D	0.16	05072019T14:17:00	VL034004.D	0.16	07032019T03:47:00	VL034012.D	0.13
04162019T16:14:00	VL033681.D	0.07	05072019T14:17:00	VL034004.D	0.06	07032019T03:47:00	VL034012.D	0.06
04162019T16:14:00	VL033681.D	0.13	05072019T14:17:00	VL034004.D	0.12	07032019T03:47:00	VL034012.D	0.11
04162019T16:14:00	VL033681.D	0.08	05072019T14:17:00	VL034004.D	0.07	07032019T03:47:00	VL034012.D	0.07
04162019T16:14:00	VL033681.D	0.09	05072019T14:17:00	VL034004.D	0.09	07032019T03:47:00	VL034012.D	0.08
04172019T16:53:00	VL033666.D	0.424	05062019T19:48:00	VL034003.D	0.483	07032019T03:10:00	VL034011.D	0.45
04162019T16:14:00	VL033681.D	0.07	05072019T14:17:00	VL034004.D	0.05	07032019T03:47:00	VL034012.D	0.05
04172019T16:53:00	VL033666.D	0.209	05062019T19:48:00	VL034003.D	0.269	07032019T03:10:00	VL034011.D	0.313
04162019T16:14:00	VL033681.D	0.07	05072019T14:17:00	VL034004.D	0.05	07032019T03:47:00	VL034012.D	0.05
04162019T16:14:00	VL033681.D	0.06	05072019T14:17:00	VL034004.D	0.04	07032019T03:47:00	VL034012.D	0.05
04162019T16:14:00	VL033681.D	0.06	05072019T14:17:00	VL034004.D	0.05	07032019T03:47:00	VL034012.D	0.05
04162019T16:14:00	VL033681.D	0.05	05072019T14:17:00	VL034004.D	0.05	07032019T03:47:00	VL034012.D	0.05
04162019T16:14:00	VL033681.D	0.13	05072019T14:17:00	VL034004.D	0.14	07032019T03:47:00	VL034012.D	0.14
04162019T16:14:00	VL033681.D	0.06	05072019T14:17:00	VL034004.D	0.05	07032019T03:47:00	VL034012.D	0.05
04162019T16:14:00	VL033681.D	0.05	05072019T14:17:00	VL034004.D	0.04	07032019T03:47:00	VL034012.D	0.06
04162019T16:14:00	VL033681.D	0.08	05072019T14:17:00	VL034004.D	0.05	07032019T03:47:00	VL034012.D	0.07
04162019T16:14:00	VL033681.D	0.14	05072019T14:17:00	VL034004.D	0.14	07032019T03:47:00	VL034012.D	0.13
04162019T16:14:00	VL033681.D	0.05	05072019T14:17:00	VL034004.D	0.05	07032019T03:47:00	VL034012.D	0.05
04172019T18:09:00	VL033665.D	0.043	05062019T19:09:00	VL034005.D	0.036	07032019T04:24:00	VL034013.D	0.035
04162019T16:14:00	VL033681.D	0.07	05072019T14:17:00	VL034004.D	0.09	07032019T03:47:00	VL034012.D	0.08
04162019T16:14:00	VL033681.D	0.07	05072019T14:17:00	VL034004.D	0.06	07032019T03:47:00	VL034012.D	0.07
04162019T16:14:00	VL033681.D	0.12	05072019T14:17:00	VL034004.D	0.14	07032019T03:47:00	VL034012.D	0.13
04172019T18:09:00	VL033665.D	0.038	05062019T19:09:00	VL034005.D	0.039	07032019T04:24:00	VL034013.D	0.032
04162019T16:14:00	VL033681.D	0.13	05072019T14:17:00	VL034004.D	0.13	07032019T03:47:00	VL034012.D	0.14
04162019T16:14:00	VL033681.D	0.09	05072019T14:17:00	VL034004.D	0.12	07032019T03:47:00	VL034012.D	0.1
04172019T18:09:00	VL033665.D	0.029	05062019T19:09:00	VL034005.D	0.047	07032019T04:24:00	VL034013.D	0.052

Adate14	Datafile15	Concentration15	Adate15	Datafile16	Concentration16	Adate16	ColumnNo	SeqID	Department
07082019T15:26:00	VL034312.D	0.11	10172019T00:40:00	VL034321.D	0.1	10172019T18:02:00		160	VOC
07082019T16:03:00	VL034313.D	0.029	10172019T01:19:00	VL034322.D	0.041	10172019T18:40:00		140	VOC
07082019T16:03:00	VL034313.D	0.027	10172019T01:19:00	VL034322.D	0.037	10172019T18:40:00		285	VOC
07082019T15:26:00	VL034312.D	0.12	10172019T00:40:00	VL034321.D	0.11	10172019T18:02:00		116	VOC
07082019T15:26:00	VL034312.D	0.12	10172019T00:40:00	VL034321.D	0.13	10172019T18:02:00		260	VOC
07082019T15:26:00	VL034312.D	0.11	10172019T00:40:00	VL034321.D	0.12	10172019T18:02:00		5	VOC
07082019T15:26:00	VL034312.D	0.1	10172019T00:40:00	VL034321.D	0.1	10172019T18:02:00		340	VOC
07082019T15:26:00	VL034312.D	0.08	10172019T00:40:00	VL034321.D	0.08	10172019T18:02:00		280	VOC
07082019T15:26:00	VL034312.D	0.07	10172019T00:40:00	VL034321.D	0.07	10172019T18:02:00		240	VOC
07082019T15:26:00	VL034312.D	0.1	10172019T00:40:00	VL034321.D	0.1	10172019T18:02:00		140	VOC
07082019T15:26:00	VL034312.D	0.1	10172019T00:40:00	VL034321.D	0.11	10172019T18:02:00		275	VOC
07082019T15:26:00	VL034312.D	0.12	10172019T00:40:00	VL034321.D	0.12	10172019T18:02:00		3	VOC
07082019T15:26:00	VL034312.D	0.11	10172019T00:40:00	VL034321.D	0.1	10172019T18:02:00		9998	VOC
07082019T15:26:00	VL034312.D	0.07	10172019T00:40:00	VL034321.D	0.07	10172019T18:02:00		230	VOC
07082019T15:26:00	VL034312.D	0.12	10172019T00:40:00	VL034321.D	0.09	10172019T18:02:00		30	VOC
07082019T15:26:00	VL034312.D	0.11	10172019T00:40:00	VL034321.D	0.12	10172019T18:02:00		250	VOC
07082019T15:26:00	VL034312.D	0.1	10172019T00:40:00	VL034321.D	0.09	10172019T18:02:00		255	VOC
07082019T14:48:00	VL034311.D	0.4	10172019T00:01:00	VL034320.D	0.54	10172019T17:23:00		9998	VOC
07082019T15:26:00	VL034312.D	0.07	10172019T00:40:00	VL034321.D	0.08	10172019T18:02:00		9982	VOC
07082019T15:26:00	VL034312.D	0.1	10172019T00:40:00	VL034321.D	0.11	10172019T18:02:00		518	VOC
07082019T15:26:00	VL034312.D	0.08	10172019T00:40:00	VL034321.D	0.08	10172019T18:02:00		225	VOC
07082019T15:26:00	VL034312.D	0.07	10172019T00:40:00	VL034321.D	0.06	10172019T18:02:00		125	VOC
07082019T15:26:00	VL034312.D	0.08	10172019T00:40:00	VL034321.D	0.07	10172019T18:02:00		335	VOC
07082019T15:26:00	VL034312.D	0.08	10172019T00:40:00	VL034321.D	0.08	10172019T18:02:00		70	VOC
07082019T14:48:00	VL034311.D	0.295	10172019T00:01:00	VL034320.D	0.296	10172019T17:23:00		70	VOC
07082019T15:26:00	VL034312.D	0.09	10172019T00:40:00	VL034321.D	0.11	10172019T18:02:00		37	VOC
07082019T15:26:00	VL034312.D	0.1	10172019T00:40:00	VL034321.D	0.09	10172019T18:02:00		9999	VOC
07082019T14:48:00	VL034311.D	0.57	10172019T00:01:00	VL034320.D	0.57	10172019T17:23:00		9998	VOC
07082019T15:26:00	VL034312.D	0.1	10172019T00:40:00	VL034321.D	0.11	10172019T18:02:00		6	VOC
07082019T15:26:00	VL034312.D	0.11	10172019T00:40:00	VL034321.D	0.11	10172019T18:02:00		285	VOC
07082019T15:26:00	VL034312.D	0.08	10172019T00:40:00	VL034321.D	0.09	10172019T18:02:00		190	VOC
07082019T15:26:00	VL034312.D	0.13	10172019T00:40:00	VL034321.D	0.14	10172019T18:02:00		105	VOC
07082019T15:26:00	VL034312.D	0.1	10172019T00:40:00	VL034321.D	0.1	10172019T18:02:00		35	VOC
07082019T16:03:00	VL034313.D	0.027	10172019T01:19:00	VL034322.D	0.034	10172019T18:40:00		116	VOC
07082019T15:26:00	VL034312.D	0.12	10172019T00:40:00	VL034321.D	0.12	10172019T18:02:00		151	VOC
07082019T15:26:00	VL034312.D	0.13	10172019T00:40:00	VL034321.D	0.13	10172019T18:02:00		100	VOC
07082019T15:26:00	VL034312.D	0.11	10172019T00:40:00	VL034321.D	0.12	10172019T18:02:00		16	VOC
07082019T15:26:00	VL034312.D	0.11	10172019T00:40:00	VL034321.D	0.1	10172019T18:02:00		80	VOC
07082019T15:26:00	VL034312.D	0.13	10172019T00:40:00	VL034321.D	0.14	10172019T18:02:00		40	VOC
07082019T15:26:00	VL034312.D	0.09	10172019T00:40:00	VL034321.D	0.1	10172019T18:02:00		75	VOC
07082019T15:26:00	VL034312.D	0.07	10172019T00:40:00	VL034321.D	0.08	10172019T18:02:00		115	VOC
07082019T15:26:00	VL034312.D	0.15	10172019T00:40:00	VL034321.D	0.17	10172019T18:02:00		50	VOC
07082019T15:26:00	VL034312.D	0.09	10172019T00:40:00	VL034321.D	0.08	10172019T18:02:00		135	VOC
07082019T15:26:00	VL034312.D	0.15	10172019T00:40:00	VL034321.D	0.13	10172019T18:02:00		325	VOC
07082019T15:26:00	VL034312.D	0.11	10172019T00:40:00	VL034321.D	0.12	10172019T18:02:00		265	VOC
07082019T14:48:00	VL034311.D	0.491	10172019T00:01:00	VL034320.D	0.444	10172019T17:23:00		6	VOC
07082019T15:26:00	VL034312.D	0.11	10172019T00:40:00	VL034321.D	0.11	10172019T18:02:00		999	VOC
07082019T15:26:00	VL034312.D	0.08	10172019T00:40:00	VL034321.D	0.07	10172019T18:02:00		165	VOC
07082019T15:26:00	VL034312.D	0.08	10172019T00:40:00	VL034321.D	0.08	10172019T18:02:00		320	VOC
07082019T15:26:00	VL034312.D	0.1	10172019T00:40:00	VL034321.D	0.09	10172019T18:02:00		29	VOC
07082019T15:26:00	VL034312.D	0.09	10172019T00:40:00	VL034321.D	0.1	10172019T18:02:00		370	VOC
07082019T15:26:00	VL034312.D	0.14	10172019T00:40:00	VL034321.D	0.16	10172019T18:02:00		330	VOC
07082019T15:26:00	VL034312.D	0.09	10172019T00:40:00	VL034321.D	0.09	10172019T18:02:00		195	VOC
07082019T15:26:00	VL034312.D	0.17	10172019T00:40:00	VL034321.D	0.16	10172019T18:02:00		170	VOC
07082019T15:26:00	VL034312.D	0.08	10172019T00:40:00	VL034321.D	0.07	10172019T18:02:00		40	VOC
07082019T15:26:00	VL034312.D	0.08	10172019T00:40:00	VL034321.D	0.09	10172019T18:02:00		350	VOC
07082019T14:48:00	VL034014.D	0.461	07082019T16:40:00	VL034320.D	0.54	10172019T17:23:00		90	VOC
07082019T15:26:00	VL034312.D	0.05	10172019T00:40:00	VL034321.D	0.07	10172019T18:02:00		300	VOC
07082019T14:48:00	VL034311.D	0.122	10172019T00:01:00	VL034320.D	0.166	10172019T17:23:00		375	VOC
07082019T15:26:00	VL034312.D	0.07	10172019T00:40:00	VL034321.D	0.07	10172019T18:02:00		270	VOC
07082019T15:26:00	VL034312.D	0.06	10172019T00:40:00	VL034321.D	0.08	10172019T18:02:00		210	VOC
07082019T15:26:00	VL034312.D	0.08	10172019T00:40:00	VL034321.D	0.08	10172019T18:02:00		175	VOC
07082019T15:26:00	VL034312.D	0.06	10172019T00:40:00	VL034321.D	0.07	10172019T18:02:00		25	VOC
07082019T15:26:00	VL034312.D	0.12	10172019T00:40:00	VL034321.D	0.15	10172019T18:02:00		305	VOC
07082019T15:26:00	VL034312.D	0.07	10172019T00:40:00	VL034321.D	0.08	10172019T18:02:00		245	VOC
07082019T15:26:00	VL034312.D	0.06	10172019T00:40:00	VL034321.D	0.06	10172019T18:02:00		185	VOC
07082019T15:26:00	VL034312.D	0.06	10172019T00:40:00	VL034321.D	0.08	10172019T18:02:00		110	VOC
07082019T15:26:00	VL034312.D	0.14	10172019T00:40:00	VL034321.D	0.17	10172019T18:02:00		310	VOC
07082019T15:26:00	VL034312.D	0.07	10172019T00:40:00	VL034321.D	0.07	10172019T18:02:00		235	VOC
07082019T16:03:00	VL034313.D	0.028	10172019T01:19:00	VL034322.D	0.04	10172019T18:40:00		240	VOC
07082019T15:26:00	VL034312.D	0.08	10172019T00:40:00	VL034321.D	0.09	10172019T18:02:00		20	VOC
07082019T15:26:00	VL034312.D	0.08	10172019T00:40:00	VL034321.D	0.07	10172019T18:02:00		10	VOC
07082019T15:26:00	VL034312.D	0.12	10172019T00:40:00	VL034321.D	0.13	10172019T18:02:00		365	VOC
07082019T16:03:00	VL034313.D	0.028	10172019T01:19:00	VL034322.D	0.038	10172019T18:40:00		170	VOC
07082019T15:26:00	VL034312.D	0.13	10172019T00:40:00	VL034321.D	0.13	10172019T18:02:00		205	VOC
07082019T15:26:00	VL034312.D	0.09	10172019T00:40:00	VL034321.D	0.12	10172019T18:02:00		100	VOC
07082019T16:03:00	VL034313.D	0.034	10172019T01:19:00	VL034322.D	0.046	10172019T18:40:00		15	VOC

SAMPLE DATA

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	01/17/22
Project:	NYSDEC - National Heatset TO-15	Date Received:	01/20/22
Client Sample ID:	SVE-INFLUENT	SDG No.:	N1211
Lab Sample ID:	N1211-01	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
VL038268.D	1		01/24/22 20:29	VL012422

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.39	1.93	J	0.35	2.47	ug/m3
74-87-3	Chloromethane	0.19	0.39	J	0.080	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
74-83-9	Bromomethane	0.50	1.94	U	0.16	1.94	ug/m3
75-00-3	Chloroethane	0.50	1.32	U	0.11	1.32	ug/m3
109-99-9	Tetrahydrofuran	20.1	59.3	E	0.12	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.28	1.57	J	0.22	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	3.83	U	0.31	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.50	3.49	U	0.35	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.30	0.91	J	0.12	1.52	ug/m3
142-82-5	Heptane	0.57	2.34		0.12	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.50	1.98	U	0.20	1.98	ug/m3
67-64-1	Acetone	16.1	38.2	E	0.90	1.19	ug/m3
75-15-0	Carbon Disulfide	0.50	1.56	U	0.12	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.50	1.80	U	0.11	1.80	ug/m3
75-09-2	Methylene Chloride	0.49	1.70	J	1.46	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.50	1.98	U	0.24	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.50	2.02	U	0.16	2.02	ug/m3
110-82-7	Cyclohexane	0.21	0.72	J	0.24	1.72	ug/m3
78-93-3	2-Butanone	10.2	30.1		0.090	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.11	0.69		0.13	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.30	5.15		0.16	1.98	ug/m3
67-66-3	Chloroform	0.18	0.88	J	0.20	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.15	0.82		0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.41	1.92	J	0.14	2.34	ug/m3
71-43-2	Benzene	0.56	1.79		0.10	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.50	2.02	U	0.16	2.02	ug/m3
79-01-6	Trichloroethene	0.89	4.78		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.50	2.31	U	0.18	2.31	ug/m3
75-27-4	Bromodichloromethane	0.50	3.35	U	0.20	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.60	6.56		0.12	2.05	ug/m3
108-88-3	Toluene	24.6	92.7	E	0.11	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.50	2.27	U	0.14	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.50	2.27	U	0.090	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.50	2.73	U	0.22	2.73	ug/m3
124-48-1	Dibromochloromethane	0.50	4.26	U	0.26	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.50	3.84	U	0.23	3.84	ug/m3
127-18-4	Tetrachloroethene	1.70	11.5		0.14	0.20	ug/m3

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	01/17/22
Project:	NYSDEC - National Heatset TO-15	Date Received:	01/20/22
Client Sample ID:	SVE-INFLUENT	SDG No.:	N1211
Lab Sample ID:	N1211-01	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
VL038268.D	1		01/24/22 20:29	VL012422

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
108-90-7	Chlorobenzene	0.50	2.30	U	0.14	2.30	ug/m3
100-41-4	Ethyl Benzene	0.84	3.65		0.13	2.17	ug/m3
179601-23-1	m/p-Xylene	3.10	13.5		0.26	4.34	ug/m3
95-47-6	o-Xylene	1.40	6.08		0.17	2.17	ug/m3
100-42-5	Styrene	0.50	2.13	U	0.13	2.13	ug/m3
75-25-2	Bromoform	0.50	5.17	U	0.41	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.030	0.21	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.50	2.59	U	0.16	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.46	2.26	J	0.10	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1.90	9.34		0.15	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.50	3.01	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.50	3.01	U	0.18	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.50	3.01	U	0.18	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.50	3.71	U	0.30	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.50	5.33	U	0.53	5.33	ug/m3
106-99-0	1,3-Butadiene	0.50	1.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.59	3.09		0.26	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.51	2.51		0.15	2.46	ug/m3
110-54-3	Hexane	0.50	1.76	U	0.11	1.76	ug/m3
107-05-1	Allyl Chloride	0.50	1.57	U	0.16	1.57	ug/m3
123-91-1	1,4-Dioxane	0.50	1.80	U	0.86	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.50	2.05	U	0.12	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.6			65 - 135	106%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	799000		5.68			
540-36-3	1,4-Difluorobenzene	1980000		7.19			
3114-55-4	Chlorobenzene-d5	1690000		12.09			

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:	EA Engineering Science & Technology	Date Collected:	01/17/22
Project:	NYSDEC - National Heatset TO-15	Date Received:	01/20/22
Client Sample ID:	SVE-INFLUENTDL	SDG No.:	N1211
Lab Sample ID:	N1211-01DL	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
VL038269.D	10		01/24/22 21:07	VL012422

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	5.00	24.7	UD	3.31	24.7	ug/m3
74-87-3	Chloromethane	5.00	10.3	UD	0.81	10.3	ug/m3
75-01-4	Vinyl Chloride	0.30	0.77	UD	0.66	0.77	ug/m3
74-83-9	Bromomethane	5.00	19.4	UD	1.67	19.4	ug/m3
75-00-3	Chloroethane	5.00	13.2	UD	1.08	13.2	ug/m3
109-99-9	Tetrahydrofuran	16.1	47.5	D	1.12	14.8	ug/m3
75-69-4	Trichlorofluoromethane	5.00	28.1	UD	2.30	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	38.3	UD	3.30	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	5.00	35.0	UD	3.15	35.0	ug/m3
75-65-0	tert-Butyl alcohol	5.00	15.2	UD	1.18	15.2	ug/m3
142-82-5	Heptane	5.00	20.5	UD	1.15	20.5	ug/m3
75-35-4	1,1-Dichloroethene	5.00	19.8	UD	1.98	19.8	ug/m3
67-64-1	Acetone	15.6	37.1	D	9.03	11.9	ug/m3
75-15-0	Carbon Disulfide	5.00	15.6	UD	1.34	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	5.00	18.0	UD	1.19	18.0	ug/m3
75-09-2	Methylene Chloride	5.00	17.4	UD	14.6	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	5.00	19.8	UD	2.30	19.8	ug/m3
75-34-3	1,1-Dichloroethane	5.00	20.2	UD	1.54	20.2	ug/m3
110-82-7	Cyclohexane	5.00	17.2	UD	2.24	17.2	ug/m3
78-93-3	2-Butanone	6.60	19.5	D	0.94	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.30	1.89	UD	1.13	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.20	4.76	JD	1.39	19.8	ug/m3
67-66-3	Chloroform	5.00	24.4	UD	1.76	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.30	1.64	UD	1.09	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	5.00	23.4	UD	1.35	23.4	ug/m3
71-43-2	Benzene	5.00	16.0	UD	1.02	16.0	ug/m3
107-06-2	1,2-Dichloroethane	5.00	20.2	UD	1.54	20.2	ug/m3
79-01-6	Trichloroethene	0.30	1.61	UD	0.91	1.61	ug/m3
78-87-5	1,2-Dichloropropane	5.00	23.1	UD	1.94	23.1	ug/m3
75-27-4	Bromodichloromethane	5.00	33.5	UD	2.14	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	5.00	20.5	UD	1.11	20.5	ug/m3
108-88-3	Toluene	22.5	84.8	D	0.98	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	5.00	22.7	UD	1.36	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	5.00	22.7	UD	0.77	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	5.00	27.3	UD	1.91	27.3	ug/m3
124-48-1	Dibromochloromethane	5.00	42.6	UD	2.22	42.6	ug/m3
106-93-4	1,2-Dibromoethane	5.00	38.4	UD	2.31	38.4	ug/m3
127-18-4	Tetrachloroethene	1.50	10.2	D	1.29	2.03	ug/m3

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	01/17/22
Project:	NYSDEC - National Heatset TO-15	Date Received:	01/20/22
Client Sample ID:	SVE-INFLUENTDL	SDG No.:	N1211
Lab Sample ID:	N1211-01DL	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
VL038269.D	10		01/24/22 21:07	VL012422

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
108-90-7	Chlorobenzene	5.00	23.0	UD	1.29	23.0	ug/m3
100-41-4	Ethyl Benzene	5.00	21.7	UD	1.39	21.7	ug/m3
179601-23-1	m/p-Xylene	2.20	9.56	JD	2.74	43.4	ug/m3
95-47-6	o-Xylene	1.00	4.34	JD	1.56	21.7	ug/m3
100-42-5	Styrene	5.00	21.3	UD	1.11	21.3	ug/m3
75-25-2	Bromoform	5.00	51.7	UD	3.83	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.30	2.06	UD	1.44	2.06	ug/m3
95-49-8	2-Chlorotoluene	5.00	25.9	UD	1.66	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5.00	24.6	UD	1.18	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1.10	5.41	JD	1.28	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	5.00	30.1	UD	3.01	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	5.00	30.1	UD	1.86	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	5.00	30.1	UD	2.04	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	5.00	37.1	UD	3.27	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	5.00	53.3	UD	5.44	53.3	ug/m3
106-99-0	1,3-Butadiene	5.00	11.1	UD	1.02	11.1	ug/m3
91-20-3	Naphthalene	5.00	26.2	UD	2.83	26.2	ug/m3
622-96-8	4-Ethyltoluene	5.00	24.6	UD	1.52	24.6	ug/m3
110-54-3	Hexane	5.00	17.6	UD	0.99	17.6	ug/m3
107-05-1	Allyl Chloride	5.00	15.7	UD	1.41	15.7	ug/m3
123-91-1	1,4-Dioxane	5.00	18.0	UD	8.65	18.0	ug/m3
80-62-6	Methyl Methacrylate	5.00	20.5	UD	1.31	20.5	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	860000		5.68			
540-36-3	1,4-Difluorobenzene	2270000		7.18			
3114-55-4	Chlorobenzene-d5	1900000		12.09			

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:	EA Engineering Science & Technology	Date Collected:	01/17/22
Project:	NYSDEC - National Heatset TO-15	Date Received:	01/20/22
Client Sample ID:	SVE-EFFLUENT	SDG No.:	N1211
Lab Sample ID:	N1211-02	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
VL038265.D	1		01/24/22 18:30	VL012422

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.23	1.14	J	0.35	2.47	ug/m3
74-87-3	Chloromethane	0.49	1.01	J	0.080	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
74-83-9	Bromomethane	0.50	1.94	U	0.16	1.94	ug/m3
75-00-3	Chloroethane	0.50	1.32	U	0.11	1.32	ug/m3
109-99-9	Tetrahydrofuran	1.60	4.72		0.12	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.20	1.12	J	0.22	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	3.83	U	0.31	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.50	3.49	U	0.35	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.50	1.52	U	0.12	1.52	ug/m3
142-82-5	Heptane	0.41	1.68	J	0.12	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.50	1.98	U	0.20	1.98	ug/m3
67-64-1	Acetone	36.3	86.2	E	0.90	1.19	ug/m3
75-15-0	Carbon Disulfide	0.50	1.56	U	0.12	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.50	1.80	U	0.11	1.80	ug/m3
75-09-2	Methylene Chloride	3.70	12.8		1.46	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.50	1.98	U	0.24	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.50	2.02	U	0.16	2.02	ug/m3
110-82-7	Cyclohexane	0.96	3.30		0.24	1.72	ug/m3
78-93-3	2-Butanone	2.10	6.19		0.090	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.13	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.50	1.98	U	0.16	1.98	ug/m3
67-66-3	Chloroform	0.50	2.44	U	0.20	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.22	1.03	J	0.14	2.34	ug/m3
71-43-2	Benzene	0.39	1.25	J	0.10	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.50	2.02	U	0.16	2.02	ug/m3
79-01-6	Trichloroethene	0.030	0.16	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.39	1.80	J	0.18	2.31	ug/m3
75-27-4	Bromodichloromethane	0.50	3.35	U	0.20	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.50	2.05	U	0.12	2.05	ug/m3
108-88-3	Toluene	9.00	33.9		0.11	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.50	2.27	U	0.14	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.50	2.27	U	0.090	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.50	2.73	U	0.22	2.73	ug/m3
124-48-1	Dibromochloromethane	0.50	4.26	U	0.26	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.50	3.84	U	0.23	3.84	ug/m3
127-18-4	Tetrachloroethene	0.11	0.75		0.14	0.20	ug/m3

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	01/17/22
Project:	NYSDEC - National Heatset TO-15	Date Received:	01/20/22
Client Sample ID:	SVE-EFFLUENT	SDG No.:	N1211
Lab Sample ID:	N1211-02	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
VL038265.D	1		01/24/22 18:30	VL012422

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
108-90-7	Chlorobenzene	0.50	2.30	U	0.14	2.30	ug/m3
100-41-4	Ethyl Benzene	0.41	1.78	J	0.13	2.17	ug/m3
179601-23-1	m/p-Xylene	1.70	7.38		0.26	4.34	ug/m3
95-47-6	o-Xylene	0.76	3.30		0.17	2.17	ug/m3
100-42-5	Styrene	0.17	0.72	J	0.13	2.13	ug/m3
75-25-2	Bromoform	0.50	5.17	U	0.41	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.030	0.21	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.50	2.59	U	0.16	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.12	0.59	J	0.10	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.35	1.72	J	0.15	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.50	3.01	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.50	3.01	U	0.18	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.50	3.01	U	0.18	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.50	3.71	U	0.30	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.50	5.33	U	0.53	5.33	ug/m3
106-99-0	1,3-Butadiene	0.50	1.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.50	2.62	U	0.26	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.13	0.64	J	0.15	2.46	ug/m3
110-54-3	Hexane	1.20	4.23		0.11	1.76	ug/m3
107-05-1	Allyl Chloride	0.50	1.57	U	0.16	1.57	ug/m3
123-91-1	1,4-Dioxane	0.50	1.80	U	0.86	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.50	2.05	U	0.12	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	751000		5.67			
540-36-3	1,4-Difluorobenzene	1970000		7.18			
3114-55-4	Chlorobenzene-d5	1600000		12.09			

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:	EA Engineering Science & Technology	Date Collected:	01/17/22
Project:	NYSDEC - National Heatset TO-15	Date Received:	01/20/22
Client Sample ID:	SVE-EFFLUENTDL	SDG No.:	N1211
Lab Sample ID:	N1211-02DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL038267.D	10		01/24/22 19:49	VL012422

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	5.00	24.7	UD	3.31	24.7	ug/m3
74-87-3	Chloromethane	5.00	10.3	UD	0.81	10.3	ug/m3
75-01-4	Vinyl Chloride	0.30	0.77	UD	0.66	0.77	ug/m3
74-83-9	Bromomethane	5.00	19.4	UD	1.67	19.4	ug/m3
75-00-3	Chloroethane	5.00	13.2	UD	1.08	13.2	ug/m3
109-99-9	Tetrahydrofuran	1.20	3.54	JD	1.12	14.8	ug/m3
75-69-4	Trichlorofluoromethane	5.00	28.1	UD	2.30	28.1	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	5.00	38.3	UD	3.30	38.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	5.00	35.0	UD	3.15	35.0	ug/m3
75-65-0	tert-Butyl alcohol	5.00	15.2	UD	1.18	15.2	ug/m3
142-82-5	Heptane	5.00	20.5	UD	1.15	20.5	ug/m3
75-35-4	1,1-Dichloroethene	5.00	19.8	UD	1.98	19.8	ug/m3
67-64-1	Acetone	39.6	94.1	D	9.03	11.9	ug/m3
75-15-0	Carbon Disulfide	5.00	15.6	UD	1.34	15.6	ug/m3
1634-04-4	Methyl tert-Butyl Ether	5.00	18.0	UD	1.19	18.0	ug/m3
75-09-2	Methylene Chloride	4.90	17.0	JD	14.6	17.4	ug/m3
156-60-5	trans-1,2-Dichloroethene	5.00	19.8	UD	2.30	19.8	ug/m3
75-34-3	1,1-Dichloroethane	5.00	20.2	UD	1.54	20.2	ug/m3
110-82-7	Cyclohexane	1.20	4.13	JD	2.24	17.2	ug/m3
78-93-3	2-Butanone	1.60	4.72	JD	0.94	14.8	ug/m3
56-23-5	Carbon Tetrachloride	0.30	1.89	UD	1.13	1.89	ug/m3
156-59-2	cis-1,2-Dichloroethene	5.00	19.8	UD	1.39	19.8	ug/m3
67-66-3	Chloroform	5.00	24.4	UD	1.76	24.4	ug/m3
71-55-6	1,1,1-Trichloroethane	0.30	1.64	UD	1.09	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	5.00	23.4	UD	1.35	23.4	ug/m3
71-43-2	Benzene	5.00	16.0	UD	1.02	16.0	ug/m3
107-06-2	1,2-Dichloroethane	5.00	20.2	UD	1.54	20.2	ug/m3
79-01-6	Trichloroethene	0.30	1.61	UD	0.91	1.61	ug/m3
78-87-5	1,2-Dichloropropane	5.00	23.1	UD	1.94	23.1	ug/m3
75-27-4	Bromodichloromethane	5.00	33.5	UD	2.14	33.5	ug/m3
108-10-1	4-Methyl-2-Pentanone	5.00	20.5	UD	1.11	20.5	ug/m3
108-88-3	Toluene	7.40	27.9	D	0.98	18.8	ug/m3
10061-02-6	t-1,3-Dichloropropene	5.00	22.7	UD	1.36	22.7	ug/m3
10061-01-5	cis-1,3-Dichloropropene	5.00	22.7	UD	0.77	22.7	ug/m3
79-00-5	1,1,2-Trichloroethane	5.00	27.3	UD	1.91	27.3	ug/m3
124-48-1	Dibromochloromethane	5.00	42.6	UD	2.22	42.6	ug/m3
106-93-4	1,2-Dibromoethane	5.00	38.4	UD	2.31	38.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	1.29	2.03	ug/m3

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	01/17/22
Project:	NYSDEC - National Heatset TO-15	Date Received:	01/20/22
Client Sample ID:	SVE-EFFLUENTDL	SDG No.:	N1211
Lab Sample ID:	N1211-02DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL038267.D	10		01/24/22 19:49	VL012422

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
108-90-7	Chlorobenzene	5.00	23.0	UD	1.29	23.0	ug/m3
100-41-4	Ethyl Benzene	5.00	21.7	UD	1.39	21.7	ug/m3
179601-23-1	m/p-Xylene	1.10	4.78	JD	2.74	43.4	ug/m3
95-47-6	o-Xylene	5.00	21.7	UD	1.56	21.7	ug/m3
100-42-5	Styrene	5.00	21.3	UD	1.11	21.3	ug/m3
75-25-2	Bromoform	5.00	51.7	UD	3.83	51.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.30	2.06	UD	1.44	2.06	ug/m3
95-49-8	2-Chlorotoluene	5.00	25.9	UD	1.66	25.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5.00	24.6	UD	1.18	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5.00	24.6	UD	1.28	24.6	ug/m3
541-73-1	1,3-Dichlorobenzene	5.00	30.1	UD	3.01	30.1	ug/m3
106-46-7	1,4-Dichlorobenzene	5.00	30.1	UD	1.86	30.1	ug/m3
95-50-1	1,2-Dichlorobenzene	5.00	30.1	UD	2.04	30.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	5.00	37.1	UD	3.27	37.1	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	5.00	53.3	UD	5.44	53.3	ug/m3
106-99-0	1,3-Butadiene	5.00	11.1	UD	1.02	11.1	ug/m3
91-20-3	Naphthalene	5.00	26.2	UD	2.83	26.2	ug/m3
622-96-8	4-Ethyltoluene	5.00	24.6	UD	1.52	24.6	ug/m3
110-54-3	Hexane	1.10	3.88	JD	0.99	17.6	ug/m3
107-05-1	Allyl Chloride	5.00	15.7	UD	1.41	15.7	ug/m3
123-91-1	1,4-Dioxane	5.00	18.0	UD	8.65	18.0	ug/m3
80-62-6	Methyl Methacrylate	5.00	20.5	UD	1.31	20.5	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	811000		5.68			
540-36-3	1,4-Difluorobenzene	2230000		7.18			
3114-55-4	Chlorobenzene-d5	1890000		12.09			

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.: N1211

Client: EA Engineering Science & Technology

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
N1211-01	SVE-INFLUENT	1-Bromo-4-Fluorobenzene	10	10.6	106	65	135
N1211-01DL	SVE-INFLUENTDL	1-Bromo-4-Fluorobenzene	10	9.84	98	65	135
N1211-02	SVE-EFFLUENT	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
N1211-02DL	SVE-EFFLUENTDL	1-Bromo-4-Fluorobenzene	10	9.79	98	65	135
N1211-02DUP	SVE-EFFLUENTDUP	1-Bromo-4-Fluorobenzene	10	10.3	103	65	135
VL0124ABL01	VL0124ABL01	1-Bromo-4-Fluorobenzene	10	9.83	98	65	135
VL0124ABS01	VL0124ABS01	1-Bromo-4-Fluorobenzene	10	10.5	105	65	135

CHEMTECH

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

SDG No.: N1211
Client: EA Engineering Science & Technology
Analytical Method: SWTO-15 **Datafile :** VL038262.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0124ABS01	Dichlorodifluoromethane	10	9.40	ppbv	94			70	130	
	Chloromethane	10	8.50	ppbv	85			70	130	
	Vinyl Chloride	10	8.50	ppbv	85			70	130	
	Bromomethane	10	9.10	ppbv	91			70	130	
	Chloroethane	10	8.90	ppbv	89			70	130	
	Tetrahydrofuran	10	9.80	ppbv	98			70	130	
	Trichlorofluoromethane	10	8.70	ppbv	87			70	130	
	1,1,2-Trichlorotrifluoroethane	10	8.50	ppbv	85			70	130	
	Dichlorotetrafluoethane	10	8.70	ppbv	87			70	130	
	tert-Butyl Alcohol	10	8.50	ppbv	85			70	130	
	Heptane	10	8.90	ppbv	89			70	130	
	1,1-Dichloroethene	10	8.70	ppbv	87			70	130	
	Acetone	10	8.10	ppbv	81			70	130	
	Carbon disulfide	10	9.10	ppbv	91			70	130	
	Methyl tert-butyl Ether	10	8.80	ppbv	88			70	130	
	Methylene Chloride	10	7.80	ppbv	78			70	130	
	trans-1,2-Dichloroethene	10	9.10	ppbv	91			70	130	
	1,1-Dichloroethane	10	8.70	ppbv	87			70	130	
	Cyclohexane	10	8.90	ppbv	89			70	130	
	2-Butanone	10	8.90	ppbv	89			70	130	
	Carbon Tetrachloride	10	9.40	ppbv	94			70	130	
	cis-1,2-Dichloroethene	10	10.8	ppbv	108			70	130	
	Chloroform	10	9.10	ppbv	91			70	130	
	1,1,1-Trichloroethane	10	8.90	ppbv	89			70	130	
	2,2,4-Trimethylpentane	10	9.00	ppbv	90			70	130	
	Benzene	10	9.50	ppbv	95			70	130	
	1,2-Dichloroethane	10	9.60	ppbv	96			70	130	
	Trichloroethene	10	9.10	ppbv	91			70	130	
	1,2-Dichloropropane	10	9.20	ppbv	92			70	130	
	Bromodichloromethane	10	9.40	ppbv	94			70	130	
	4-Methyl-2-Pentanone	10	9.60	ppbv	96			70	130	
	Toluene	10	9.70	ppbv	97			70	130	
	t-1,3-Dichloropropene	10	11.1	ppbv	111			70	130	
	cis-1,3-Dichloropropene	10	10.4	ppbv	104			70	130	
	1,1,2-Trichloroethane	10	9.50	ppbv	95			70	130	
	Dibromochloromethane	10	9.80	ppbv	98			70	130	
	1,2-Dibromoethane	10	9.90	ppbv	99			70	130	
	Tetrachloroethene	10	9.00	ppbv	90			70	130	
	Chlorobenzene	10	9.60	ppbv	96			70	130	
	Ethyl Benzene	10	9.80	ppbv	98			70	130	
	m/p-Xylene	20	19.0	ppbv	95			70	130	
	o-Xylene	10	9.60	ppbv	96			70	130	
	Styrene	10	11.0	ppbv	110			70	130	
	Bromoform	10	10.5	ppbv	105			70	130	
	1,1,2,2-Tetrachloroethane	10	9.30	ppbv	93			70	130	
	2-Chlorotoluene	10	10.2	ppbv	102			70	130	
	1,3,5-Trimethylbenzene	10	10.4	ppbv	104			70	130	
	1,2,4-Trimethylbenzene	10	10.1	ppbv	101			70	130	
	1,3-Dichlorobenzene	10	10.5	ppbv	105			70	130	

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

SDG No.: N1211

Client: EA Engineering Science & Technology

Analytical Method: SWTO-15 **Datafile :** VL038262.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0124ABS01	1,4-Dichlorobenzene	10	10.7	ppbv	107			70	130	
	1,2-Dichlorobenzene	10	10.5	ppbv	105			70	130	
	1,2,4-Trichlorobenzene	10	9.50	ppbv	95			70	130	
	Hexachloro-1,3-butadiene	10	7.90	ppbv	79			70	130	
	Naphthalene	10	10.3	ppbv	103			70	130	
	1,3-Butadiene	10	8.80	ppbv	88			70	130	
	4-Ethyltoluene	10	10.6	ppbv	106			70	130	
	Hexane	10	9.10	ppbv	91			70	130	
	Allyl Chloride	10	9.10	ppbv	91			70	130	
	1,4-Dioxane	10	9.10	ppbv	91			70	130	
	Methyl methacrylate	10	10.1	ppbv	101			70	130	

Duplicate Sample Summary

Lab Sample Id :	N1211-02DUP		N1211-02	
Client Id :	SVE-EFFLUENTDUP		SVE-EFFLUENT	
DF :	1		1	
Datafile :	VL038266.D		VL038265.D	
Anal Date & Time :	01/24/2022	19:11	01/24/2022	18:30

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	0.35	0.35	0
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0.36	0.39	8
1,3,5-Trimethylbenzene	0.12	0.12	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	0.21	0.22	4.7
2-Butanone	1.7	2.1	21.1 *
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0.12	0.13	8
4-Methyl-2-Pentanone	0	0	0
Acetone	34.2	36.3	6
Allyl Chloride	0	0	0
Benzene	0.39	0.39	0
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0
Carbon Tetrachloride	0.07	0.07	0

Duplicate Sample Summary

Lab Sample Id :	N1211-02DUP		N1211-02	
Client Id :	SVE-EFFLUENTDUP		SVE-EFFLUENT	
DF :	1		1	
Datafile :	VL038266.D		VL038265.D	
Anal Date & Time :	01/24/2022	19:11	01/24/2022	18:30

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0.48	0.49	2.1
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0.92	0.96	4.3
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.21	0.23	9.1
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0.39	0.41	5
Heptane	0.42	0.41	2.4
Hexachloro-1,3-Butadiene	0	0	0
Hexane	1.1	1.2	8.7
m/p-Xylene	1.8	1.7	5.7
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	3.6	3.7	2.7
Naphthalene	0	0	0
o-Xylene	0.78	0.76	2.6
Styrene	0.17	0.17	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0.12	0.11	8.7
Tetrahydrofuran	1.5	1.6	6.5
Toluene	9.1	9	1.1
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.2	0.2	0
Vinyl Chloride	0	0	0

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0124ABL01

Lab Name: CHEMTECH Contract: EAEN05

Lab Code: CHEM Case No.: N1211 SAS No.: N1211 SDG NO.: N1211

Lab File ID: VL038261.D Lab Sample ID: VL0124ABL01

Date Analyzed: 01/24/2022 Time Analyzed: 15:58

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
VL0124ABS01	VL0124ABS01	VL038262.D	01/24/2022
SVE-EFFLUENT	N1211-02	VL038265.D	01/24/2022
SVE-EFFLUENTDUP	N1211-02DUP	VL038266.D	01/24/2022
SVE-EFFLUENTDL	N1211-02DL	VL038267.D	01/24/2022
SVE-INFLUENT	N1211-01	VL038268.D	01/24/2022
SVE-INFLUENTDL	N1211-01DL	VL038269.D	01/24/2022

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: EAEN05

Lab Code: CHEM Case No.: N1211 SAS No.: N1211 SDG NO.: N1211

Lab File ID: VL038252.D BFB Injection Date: 01/24/2022

Instrument ID: MSVOA_L BFB Injection Time: 08:49

GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.8
75	30.0 - 66.0% of mass 95	55.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (1.2) 1
174	50.0 - 120.0% of mass 95	57.5
175	4.0 - 9.0% of mass 174	4.2 (7.3) 1
176	93.0 - 101.0% of mass 174	56 (97.4) 1
177	5.0 - 9.0% of mass 176	3.7 (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	VL038253.D	01/24/2022	09:27
VSTDICC002	VSTDICC002	VL038254.D	01/24/2022	10:08
VSTDICC001	VSTDICC001	VL038255.D	01/24/2022	10:45
VSTDICC0.5	VSTDICC0.5	VL038256.D	01/24/2022	11:21
VSTDICC0.1	VSTDICC0.1	VL038257.D	01/24/2022	11:57
VSTDICC0.03	VSTDICC0.03	VL038258.D	01/24/2022	12:33
VSTDICC015	VSTDICC015	VL038259.D	01/24/2022	13:14
VL0124ABL01	VL0124ABL01	VL038261.D	01/24/2022	15:58
VL0124ABS01	VL0124ABS01	VL038262.D	01/24/2022	16:36
SVE-EFFLUENT	N1211-02	VL038265.D	01/24/2022	18:30
SVE-EFFLUENTDUP	N1211-02DUP	VL038266.D	01/24/2022	19:11
SVE-EFFLUENTDL	N1211-02DL	VL038267.D	01/24/2022	19:49
SVE-INFLUENT	N1211-01	VL038268.D	01/24/2022	20:29
SVE-INFLUENTDL	N1211-01DL	VL038269.D	01/24/2022	21:07

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: EAEN05

Lab Code: CHEM Case No.: N1211 SAS No.: N1211 SDG NO.: N1211

Lab File ID: VL038253.D Date Analyzed: 01/24/2022

Instrument ID: MSVOA_L Time Analyzed: 09:27

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	779421	5.67	2240940	7.18	2054900	12.09
UPPER LIMIT	1091190	6.00	3137310	7.51	2876860	12.42
LOWER LIMIT	467653	5.34	1344560	6.85	1232940	11.76
EPA SAMPLE NO.						
SVE-INFLUENT	799401	5.68	1984987	7.19	1686561	12.09
SVE-INFLUENTDL	860155	5.68	2269435	7.18	1904301	12.09
SVE-EFFLUENT	750555	5.67	1966752	7.18	1596869	12.09
SVE-EFFLUENTDL	811277	5.68	2227663	7.18	1891953	12.09
SVE-EFFLUENTDUP	782224	5.67	2035465	7.18	1593580	12.09
VL0124ABL01	848975	5.68	2224567	7.18	1857922	12.09
VL0124ABS01	856154	5.68	2285324	7.19	2035231	12.10

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:	EA Engineering Science & Technology	Date Collected:	
Project:	NYSDEC - National Heatset TO-15	Date Received:	
Client Sample ID:	VL0124ABL01	SDG No.:	N1211
Lab Sample ID:	VL0124ABL01	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
VL038261.D	1		01/24/22 15:58	VL012422

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	2.47	U	0.35	2.47	ug/m3
74-87-3	Chloromethane	0.50	1.03	U	0.080	1.03	ug/m3
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
74-83-9	Bromomethane	0.50	1.94	U	0.16	1.94	ug/m3
75-00-3	Chloroethane	0.50	1.32	U	0.11	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.50	1.47	U	0.12	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.50	2.81	U	0.22	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	3.83	U	0.31	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.50	3.49	U	0.35	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.50	1.52	U	0.12	1.52	ug/m3
142-82-5	Heptane	0.50	2.05	U	0.12	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.50	1.98	U	0.20	1.98	ug/m3
67-64-1	Acetone	0.50	1.19	U	0.90	1.19	ug/m3
75-15-0	Carbon Disulfide	0.50	1.56	U	0.12	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.50	1.80	U	0.11	1.80	ug/m3
75-09-2	Methylene Chloride	0.50	1.74	U	1.46	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.50	1.98	U	0.24	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.50	2.02	U	0.16	2.02	ug/m3
110-82-7	Cyclohexane	0.50	1.72	U	0.24	1.72	ug/m3
78-93-3	2-Butanone	0.50	1.47	U	0.090	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.030	0.19	U	0.13	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.50	1.98	U	0.16	1.98	ug/m3
67-66-3	Chloroform	0.50	2.44	U	0.20	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.030	0.16	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.50	2.34	U	0.14	2.34	ug/m3
71-43-2	Benzene	0.50	1.60	U	0.10	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.50	2.02	U	0.16	2.02	ug/m3
79-01-6	Trichloroethene	0.030	0.16	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.50	2.31	U	0.18	2.31	ug/m3
75-27-4	Bromodichloromethane	0.50	3.35	U	0.20	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.50	2.05	U	0.12	2.05	ug/m3
108-88-3	Toluene	0.50	1.88	U	0.11	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.50	2.27	U	0.14	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.50	2.27	U	0.090	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.50	2.73	U	0.22	2.73	ug/m3
124-48-1	Dibromochloromethane	0.50	4.26	U	0.26	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.50	3.84	U	0.23	3.84	ug/m3
127-18-4	Tetrachloroethene	0.030	0.20	U	0.14	0.20	ug/m3

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Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	
Project:	NYSDEC - National Heatset TO-15	Date Received:	
Client Sample ID:	VL0124ABL01	SDG No.:	N1211
Lab Sample ID:	VL0124ABL01	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
VL038261.D	1		01/24/22 15:58	VL012422

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
108-90-7	Chlorobenzene	0.50	2.30	U	0.14	2.30	ug/m3
100-41-4	Ethyl Benzene	0.50	2.17	U	0.13	2.17	ug/m3
179601-23-1	m/p-Xylene	1.00	4.34	U	0.26	4.34	ug/m3
95-47-6	o-Xylene	0.50	2.17	U	0.17	2.17	ug/m3
100-42-5	Styrene	0.50	2.13	U	0.13	2.13	ug/m3
75-25-2	Bromoform	0.50	5.17	U	0.41	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.030	0.21	U	0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.50	2.59	U	0.16	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.50	2.46	U	0.10	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.50	2.46	U	0.15	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.50	3.01	U	0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.50	3.01	U	0.18	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.50	3.01	U	0.18	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.50	3.71	U	0.30	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.50	5.33	U	0.53	5.33	ug/m3
106-99-0	1,3-Butadiene	0.50	1.11	U	0.11	1.11	ug/m3
91-20-3	Naphthalene	0.50	2.62	U	0.26	2.62	ug/m3
622-96-8	4-Ethyltoluene	0.50	2.46	U	0.15	2.46	ug/m3
110-54-3	Hexane	0.50	1.76	U	0.11	1.76	ug/m3
107-05-1	Allyl Chloride	0.50	1.57	U	0.16	1.57	ug/m3
123-91-1	1,4-Dioxane	0.50	1.80	U	0.86	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.50	2.05	U	0.12	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	849000		5.68			
540-36-3	1,4-Difluorobenzene	2220000		7.18			
3114-55-4	Chlorobenzene-d5	1860000		12.09			

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:	EA Engineering Science & Technology	Date Collected:	
Project:	NYSDEC - National Heatset TO-15	Date Received:	
Client Sample ID:	VL0124ABS01	SDG No.:	N1211
Lab Sample ID:	VL0124ABS01	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
VL038262.D	1		01/24/22 16:36	VL012422

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	9.40	46.5		0.35	2.47	ug/m3
74-87-3	Chloromethane	8.50	17.6		0.080	1.03	ug/m3
75-01-4	Vinyl Chloride	8.50	21.7		0.080	0.080	ug/m3
74-83-9	Bromomethane	9.10	35.3		0.16	1.94	ug/m3
75-00-3	Chloroethane	8.90	23.5		0.11	1.32	ug/m3
109-99-9	Tetrahydrofuran	9.80	28.9		0.12	1.47	ug/m3
75-69-4	Trichlorofluoromethane	8.70	48.9		0.22	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	8.50	65.2		0.31	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	8.70	60.8		0.35	3.49	ug/m3
75-65-0	tert-Butyl alcohol	8.50	25.8		0.12	1.52	ug/m3
142-82-5	Heptane	8.90	36.5		0.12	2.05	ug/m3
75-35-4	1,1-Dichloroethene	8.70	34.5		0.20	1.98	ug/m3
67-64-1	Acetone	8.10	19.2		0.90	1.19	ug/m3
75-15-0	Carbon Disulfide	9.10	28.3		0.12	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	8.80	31.7		0.11	1.80	ug/m3
75-09-2	Methylene Chloride	7.80	27.1		1.46	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	9.10	36.1		0.24	1.98	ug/m3
75-34-3	1,1-Dichloroethane	8.70	35.2		0.16	2.02	ug/m3
110-82-7	Cyclohexane	8.90	30.6		0.24	1.72	ug/m3
78-93-3	2-Butanone	8.90	26.3		0.090	1.47	ug/m3
56-23-5	Carbon Tetrachloride	9.40	59.1		0.13	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	10.8	42.8		0.16	1.98	ug/m3
67-66-3	Chloroform	9.10	44.4		0.20	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	8.90	48.6		0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.00	42.0		0.14	2.34	ug/m3
71-43-2	Benzene	9.50	30.4		0.10	1.60	ug/m3
107-06-2	1,2-Dichloroethane	9.60	38.9		0.16	2.02	ug/m3
79-01-6	Trichloroethene	9.10	48.9		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	9.20	42.5		0.18	2.31	ug/m3
75-27-4	Bromodichloromethane	9.40	63.0		0.20	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	9.60	39.3		0.12	2.05	ug/m3
108-88-3	Toluene	9.70	36.5		0.11	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	11.1	50.4		0.14	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	10.4	47.2		0.090	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	9.50	51.8		0.22	2.73	ug/m3
124-48-1	Dibromochloromethane	9.80	83.5		0.26	4.26	ug/m3
106-93-4	1,2-Dibromoethane	9.90	76.1		0.23	3.84	ug/m3
127-18-4	Tetrachloroethene	9.00	61.0		0.14	0.20	ug/m3

Report of Analysis

Client:	EA Engineering Science & Technology	Date Collected:	
Project:	NYSDEC - National Heatset TO-15	Date Received:	
Client Sample ID:	VL0124ABS01	SDG No.:	N1211
Lab Sample ID:	VL0124ABS01	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
VL038262.D	1		01/24/22 16:36	VL012422

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
108-90-7	Chlorobenzene	9.60	44.2		0.14	2.30	ug/m3
100-41-4	Ethyl Benzene	9.80	42.6		0.13	2.17	ug/m3
179601-23-1	m/p-Xylene	19.0	82.5		0.26	4.34	ug/m3
95-47-6	o-Xylene	9.60	41.7		0.17	2.17	ug/m3
100-42-5	Styrene	11.0	46.8		0.13	2.13	ug/m3
75-25-2	Bromoform	10.5	109		0.41	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	9.30	63.9		0.14	0.21	ug/m3
95-49-8	2-Chlorotoluene	10.2	52.8		0.16	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	10.4	51.1		0.10	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	10.1	49.6		0.15	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	10.5	63.1		0.30	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	10.7	64.3		0.18	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	10.5	63.1		0.18	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	9.50	70.5		0.30	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	7.90	84.3		0.53	5.33	ug/m3
106-99-0	1,3-Butadiene	8.80	19.5		0.11	1.11	ug/m3
91-20-3	Naphthalene	10.3	54.0		0.26	2.62	ug/m3
622-96-8	4-Ethyltoluene	10.6	52.1		0.15	2.46	ug/m3
110-54-3	Hexane	9.10	32.1		0.11	1.76	ug/m3
107-05-1	Allyl Chloride	9.10	28.5		0.16	1.57	ug/m3
123-91-1	1,4-Dioxane	9.10	32.8		0.86	1.80	ug/m3
80-62-6	Methyl Methacrylate	10.1	41.4		0.12	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135	105%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	856000		5.68			
540-36-3	1,4-Difluorobenzene	2290000		7.19			
3114-55-4	Chlorobenzene-d5	2040000		12.1			

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

Response Factor Report Instrumen

Method Path : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\
Method File : VL012422AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LMon Jan 24 14:12:48 2022
Last Update : Mon Jan 24 14:12:48 2022
Response Via : Initial Calibration

Calibration Files
0.03=VL038258.D 0.1 =VL038257.D 0.5 =VL038256.D 1 =VL038255.D 2 =VL038254.D 10 =VL038253.D 15 =VL038259.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			2.352	2.404	1.712	2.196	1.980	2.129	13.41
3)		Chlorodifluoro...			2.126	2.065	2.162	1.908	1.693	1.991	9.69
4)		Chloromethane			0.740	0.724	0.712	0.653	0.596	0.685	8.71
5)	T	Vinyl Chloride	0.808	0.689	0.651	0.686	0.711	0.654	0.587	0.684	9.90
6)	T	Bromomethane			0.375	0.377	0.395	0.369	0.332	0.370	6.19
7)		Chloroethane			0.248	0.220	0.246	0.229	0.211	0.231	6.99
8)	T	Dichlorotetraf...			1.779	1.610	1.839	1.573	1.435	1.647	9.89
9)	T	Propene			0.665	0.632	0.724	0.646	0.573	0.648	8.43
10)	T	Heptane			1.719	1.657	1.839	1.643	1.479	1.667	7.82
11)	T	Trichlorofluor...			1.649	1.740	1.814	1.635	1.454	1.658	8.15
12)	T	1,1,2-Trichlor...			1.363	1.272	1.346	1.211	1.076	1.254	9.31
13)		Ethanol			0.066	0.069	0.087	0.071	0.055	0.070	16.76
14)	T	Bromoethene			0.481	0.504	0.536	0.478	0.450	0.490	6.56
15)	T	Acetone			0.982	0.956	0.975	0.773	0.722	0.882	14.06
16)	T	1,3-Butadiene			0.661	0.659	0.652	0.618	0.573	0.633	5.95
17)		tert-Butyl alc...			1.091	1.000	1.045	0.961	0.741	0.968	14.00
18)	T	1,1-Dichloroet...			0.563	0.571	0.586	0.537	0.469	0.545	8.45
19)	T	Isopropyl Alcohol			0.620	0.602	0.618	0.513	0.405	0.551	16.90
20)	T	Methylene Chlo...			0.625	0.562	0.538	0.448	0.390	0.513	18.19
21)	T	Allyl Chloride			0.772	0.750	0.852	0.804	0.723	0.780	6.38
22)	T	trans-1,2-Dich...			0.558	0.576	0.620	0.555	0.508	0.563	7.18
23)	T	Vinyl Acetate			1.378	1.199	1.345	1.281	1.205	1.282	6.27
24)	T	1,1-Dichloroet...			1.172	1.192	1.252	1.108	0.984	1.142	8.93
25)	T	Ethyl Acetate			2.468	2.605	2.654	2.321	2.293	2.468	6.57
26)	T	Hexane			1.216	1.160	1.233	1.076	1.054	1.148	7.03
27)	T	Carbon Disulfide			1.271	1.329	1.444	1.425	1.246	1.343	6.63
28)	T	Methyl tert-Bu...			1.199	1.180	1.343	1.181	1.051	1.191	8.68
29)	T	Chloroform			1.911	1.971	1.999	1.792	1.697	1.874	6.78
30)	T	Cyclohexane			0.998	1.054	1.061	0.999	0.886	1.000	7.02
31)	T	cis-1,2-Dichlo...			1.157	0.981	0.926	0.849	1.095	1.001	12.47
32)	T	1,1,1-Trichlor...	1.840	1.893	1.957	1.863	2.051	1.834	1.663	1.872	6.39
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.324	0.303	0.327	0.294	0.387	0.327	11.14
35)	T	Carbon Tetrach...	0.756	0.683	0.704	0.722	0.736	0.674	0.638	0.702	5.72
36)	T	Benzene			0.873	0.939	0.953	0.846	0.812	0.885	6.81
37)	T	1,2-Dichloroet...			0.515	0.519	0.528	0.495	0.475	0.507	4.22
38)	T	Trichloroethene	0.374	0.325	0.343	0.333	0.339	0.304	0.289	0.329	8.39
39)	T	1,2-Dichloropr...			0.376	0.373	0.380	0.342	0.322	0.359	7.05

Method Path : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\
Method File : VL012422AIR.M

40)	T	1,4-Dioxane		0.093	0.100	0.092	0.075	0.072	0.086	14.08
41)	T	Tetrahydrofuran		0.219	0.233	0.225	0.208	0.214	0.220	4.24
42)	T	Bromodichlorom...		0.788	0.775	0.794	0.719	0.682	0.752	6.50
43)		Methyl Methacr...		0.295	0.309	0.326	0.320	0.314	0.313	3.69
44)	T	2,2,4-Trimethy...		1.640	1.690	1.700	1.434	1.329	1.559	10.75
45)	T	t-1,3-Dichloro...		0.215	0.224	0.250	0.290	0.292	0.254	14.12
46)	T	cis-1,3-Dichlo...		0.319	0.323	0.341	0.358	0.354	0.339	5.21
47)	T	1,1,2-Trichlor...		0.374	0.362	0.367	0.334	0.324	0.352	6.20
48)	T	Dibromochlorom...		0.602	0.607	0.611	0.584	0.561	0.593	3.50
49)	T	Bromoform		0.400	0.431	0.464	0.428	0.416	0.428	5.50
50)	T	4-Methyl-2-Pen...		0.569	0.603	0.613	0.576	0.557	0.583	4.01
51)	T	2-Hexanone		0.235	0.252	0.279	0.263	0.256	0.257	6.21
52)	T	Tetrachloroethene	0.367 0.301	0.311	0.310	0.307	0.275	0.263	0.305	10.89
53)	T	Toluene		0.952	1.020	1.055	0.953	0.916	0.979	5.80
54)	T	1,2-Dibromoethane		0.505	0.513	0.522	0.487	0.478	0.501	3.69
55)	I	Chlorobenzene-d5	----------ISTD----------							
56)		1,1,1,2-Tetrac...		0.477	0.463	0.464	0.400	0.385	0.438	9.64
57)	T	Chlorobenzene		0.857	0.872	0.849	0.723	0.700	0.800	10.21
58)	T	Ethyl Benzene		1.562	1.556	1.566	1.361	1.304	1.470	8.65
59)	T	m/p-Xylene		1.328	1.355	1.373	1.140	1.074	1.254	10.93
60)	T	o-Xylene		1.245	1.270	1.248	1.062	1.006	1.166	10.53
61)	T	Styrene		0.499	0.535	0.585	0.556	0.546	0.544	5.78
62)		Isopropylbenzene		1.633	1.683	1.716	1.404	1.338	1.555	11.06
63)	T	1,1,2,2-Tetrac...	1.054 0.854	0.912	0.914	0.909	0.718	0.680	0.863	14.83
64)		n-propylbenzene		0.361	0.403	0.417	0.351	0.338	0.374	9.15
65)		tert-Butylbenzene		1.323	1.394	1.477	1.135	1.073	1.280	13.40
66)	T	Benzyl Chloride		0.049	0.050	0.057	0.070	0.065	0.058	15.53
67)		sec-Butylbenzene		1.838	1.945	2.051	1.580	1.492	1.781	13.38
68)	S	1-Bromo-4-Fluo...	0.720 0.769	0.754	0.752	0.752	0.779	0.787	0.759	2.93
69)		p-Isopropyltol...		1.374	1.428	1.596	1.239	1.179	1.363	12.05
70)		n-Butylbenzene		1.277	1.437	1.577	1.218	1.166	1.335	12.68
71)		2-Chlorotoluene		1.197	1.224	1.274	1.053	1.011	1.151	9.88
72)	T	4-Ethyltoluene		1.192	1.279	1.367	1.146	1.113	1.220	8.49
73)	T	1,3,5-Trimethy...		1.112	1.169	1.225	1.008	0.970	1.097	9.76
74)	T	1,2,4-Trimethy...		1.225	1.235	1.322	1.030	0.966	1.155	13.02
75)	T	1,3-Dichlorobe...		0.662	0.656	0.690	0.554	0.538	0.620	11.14
76)	T	1,4-Dichlorobe...		0.643	0.648	0.649	0.543	0.519	0.600	10.61
77)	T	1,2-Dichlorobe...		0.651	0.594	0.645	0.502	0.487	0.576	13.50
78)	T	Hexachloro-1,3...		0.455	0.446	0.457	0.328	0.316	0.400	17.97
79)	T	Naphthalene		0.401	0.435	0.625	0.626	0.614	0.540	20.73
80)	T	Naphthalene,2-...		0.003	0.037	0.067	0.099	0.088	0.059	67.03
81)	T	1,2,4-Trichlor...		0.269	0.291	0.380	0.331	0.317	0.318	13.36

(#) = Out of Range

SHIPPING DOCUMENTS

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 89

CHEMTECH Project No. :

Client Contact Information	Bottle Order ID : **B2201015**	Courier :	1 of 1 COCs
Client ID : **EAEN05** Project ID :	**NYSDEC - National Heatset TO-15**	Sampler Name(s) : D. Howe	
Customer Name : **EA Engineering Science & Technology**	Project Manager **Emily cummings**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **269 W. Jefferson Street**	Phone Number : **315-431-4610**		
	Fax Number : **3154314280**		
	Site Details:	Batch Certified	
City : **Syracuse**			
State : **NY**	Analysis Turnaround Time		
Zip Code : **13202**	Standard : **10 business days** **OR**	Data Package Type : NYS Equis	
Country : United States	Rush (Specify): _____ **Days**	EDD Type : Equis 4-File	

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		Flow Controller Readout	Can Cert ID	Analysis: TO-15	Matrix: Indoor/Ambinet Air	Matrix: Soil Gas	Matrix: System Process Air
SVE Effluent	1-17-22	0850	1302	10	4.5	60	60	-30	-3.9	10519	10598	6 L	25	VL038160.D	X			X

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	44			
Stop	38			

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.14			
Stop	29.11			

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditio

Please follow the instructions on the back of this CO

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low) PID Readings:

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:		Date/Time: 1/17/22	Canisters Received by:	Date/Time: 1/15/22	B2201015 - 2
Samples Relinquished by:		Date/Time: 1/19/22	Received by:	Date/Time: 1-20-22 - 1210	
Relinquished by:		Date/Time:	Received by:	Date/Time:	

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 89

CHEMTECH Project No. :

Client Contact Information	Bottle Order ID : **B2201015**	Courier :	1 of 1 COCs
Client ID : **EAEN05** Project ID :	**NYSDEC - National Heatset TO-15**	Sampler Name(s) : D. Howe	Analysis / Matrix
Customer Name : **EA Engineering Science & Technology**	Project Manager **Emily cummings**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **269 W. Jefferson Street**	Phone Number : **315-431-4610**		
	Fax Number : **3154314280**		
	Site Details:	Batch Certified	
City : **Syracuse**			
State : **NY**	Analysis Turnaround Time		
Zip Code : **13202**	Standard : **10 business days** **OR**	Data Package Type : NYS Equis	
Country : United States	Rush (Specify): _____ **Days**	EDD Type : Equis 4-File	

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		Flow Controller Readout	Can Cert ID	TO-15				Indoor/Ambinet Air	Soil Gas	System Process Air	
SVE Influent	1-17-22	0847	1300	30	5	60	60	-30	-3.1	10714	10448	6 L	25	VL038160.D	X						X	

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start	44			
Stop	38			

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start	29.14			
Stop	29.11			

GC/MS Analyst Signature (TO-15)

** Submittal of this COC indicates approval of the analysis based on existing conditio

Please follow the instructions on the back of this CO

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low)

PID Readings:

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by: AB	Date/Time: 1/7/22	Canisters Received by:	Date/Time: 1/15/22		
Samples Relinquished by:	Date/Time: 1/19/22	Received by:	Date/Time: 1-20-22 1210	B2201015 - 1	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0649
DOD ELAP (L-A-B)	L2219
Maine	2020021
Maryland	296
New Hampshire	255421
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	P330-21-00137
Texas	T104704488-21-14

New Jersey Department of Environmental Protection

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample	
Laboratory: Chemtech	Location: 284 Sheffield Street, Mountainside,NJ 7092
~~GORGE~~	Title: Sample Custodian
Field Sample Seal No.: N1211	Date Broken: 1/20/2022 Military Time Seal Broken: 12:10:00
Case No.: NYSDEC - National Heatset	Analytical Parameter/Fraction: TO-15

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
N1211-01	SVE-INFLUENT		
N1211-02	SVE-EFFLUENT		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
1/20	1315	Signature [signature]	Signature [signature]	
		Printed Name George Vesnaver	Printed Name Pedro Sanchez	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

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

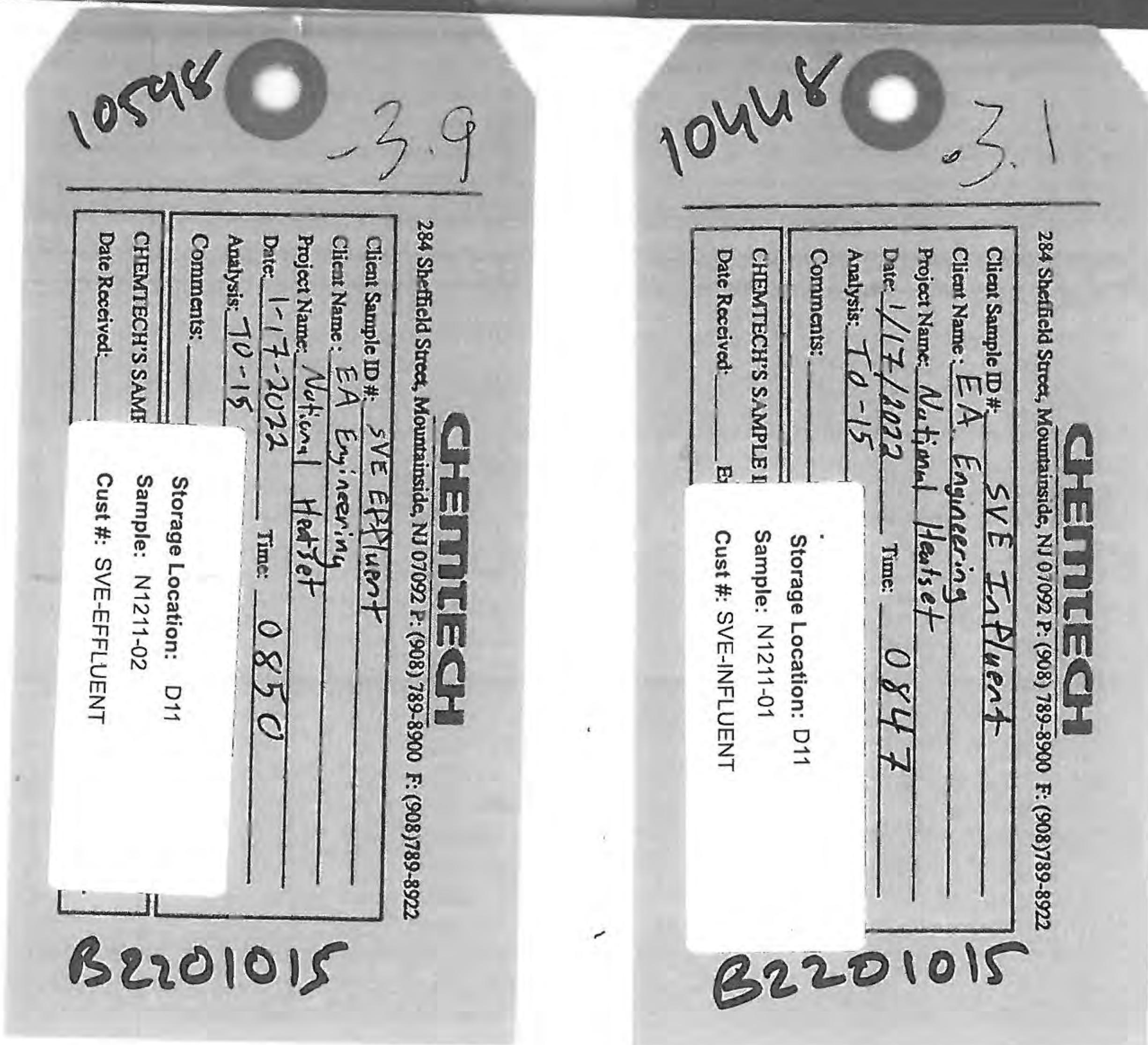
CHEMTECH 284 Sheffield Street Mountainside, NJ 07092

AIR SAMPLE PRESSURE & DILUTION LOGBOOK

Analyst Signature: _____ Supervisor Signature: _____

METHOD: TO-15 Pressure Gauge ID: _____

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
01/20/22	N1211-01	10468	13.2	-3.1				Sy
"	N1211-02	10598	12.8	-3.9				"



10548 -3.9

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: SVE Effluent
Client Name: EA Engineering
Project Name: National Heatset
Date: 1-17-2022 Time: 0850
Analysis: TO-15
Comments:

CHEMTECH'S SAMP
Date Received:

Storage Location: D11
Sample: N1211-02
Cust #: SVE-EFFLUENT

B2201015

10448 .3.1

CHEMTECH
284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908)789-8922

Client Sample ID #: SVE Influent
Client Name: EA Engineering
Project Name: National Heatset
Date: 1/17/2022 Time: 0847
Analysis: TO-15
Comments:

CHEMTECH'S SAMPLE I
Date Received:

Storage Location: D11
Sample: N1211-01
Cust #: SVE-INFLUENT

B2201015