



NOR-03158

March 20, 2024

Ms. Kristin Granzen  
Project Manager, Remedial Bureau D, Section B  
New York State Department of Environmental Conservation  
Division of Environmental Remediation, 12<sup>th</sup> Floor  
625 Broadway  
Albany, New York 12233-7015

Reference: CLEAN Contract No. N6247016D9008  
Contract Task Order WE13

Subject: February 2024 Reporting Period  
Discharge Monitoring Report RE-137 Area, New York State Drainage Basin 17, Nassau  
County Basin #305  
NYSDEC Site No. 130003B, NWIRP Bethpage

Dear Ms. Granzen:

Tetra Tech is providing this monthly monitoring report for the groundwater discharge results for the RE-137 Area Groundwater Treatment System (GWTS) located near the former Naval Weapons Industrial Reserve Plant (NWIRP), Bethpage, New York. This report was prepared in accordance with New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) Permit Equivalent dated February 16, 2022 and the modification dated November 3, 2023.

This document is the twenty second monthly report for this system. Full time operation of the RE-137 GWTS began on May 2, 2022 at a nominal flowrate of 100 gallons per minute (GPM) and has been gradually increased since then. In February 2024, the system ran at a nominal flowrate of 364 GPM. During the month of February 2024, the RE-137 GWTS operated for approximately 684 hours (uptime of 94.9%) and extracted, treated, and discharged an approximate total of 14,898,653 gallons of groundwater. As of February 29, 2024, the system has treated a total of 293,754,250 gallons of groundwater and removed 2,083 pounds of volatile organic compounds. The monthly samples were collected on February 1, 2024.

In response to the inefficient removal of Freon 113 by the GWTS, an aeration tank was added to the system in January 2024. To evaluate potential environmental impacts from this modification, air samples were collected from the aeration tank effluent vent and at an upwind location. The air samples were collected on February 1, 2024. Based on these results, approximately 0.4 pounds of chlorinated volatile organic compounds were released to the atmosphere this period, of which over 95 percent were Freons (primarily Freon 113). The laboratory report documenting the air sampling results is provided as Attachment B. Routine operation and maintenance of the RE-137 GWTS is ongoing.

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Ms. Kristi Granzen  
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If you have any questions, please contact me at [vin.varricchio@tetrattech.com](mailto:vin.varricchio@tetrattech.com) or 631-962-0812.

Sincerely,



Vincent Varricchio, P.G.  
NWIRP Bethpage Facilities Manager

Attachment A: Groundwater Discharge Monitoring Report, February 2024

Attachment B: Air sampling Results, February 2024

cc: J. Pilewski, NYSDEC – Region 1  
J. Pelton, NYSDEC  
J LaClair, NYSDEC  
S. Johnston, NYSDEC  
J. Sullivan, NYSDOH  
G. Ennis, Nassau County Department of Public Works  
S. Sokolowski, NAVFAC Mid-Atlantic  
D. Brayack, Tetra Tech  
R. Moore, Tetra Tech

**ATTACHMENT A**  
**DISCHARGE MONITORING REPORT**  
**FEBRUARY 2024**

**Attachment A - Groundwater Sampling Results for Discharge Monitoring Report  
RE-137 Area Groundwater Remediation  
Groundwater Treatment System  
Naval Weapons Industrial Reserve Plant – Bethpage, New York  
February 2024**

SPDES Parameters			February 2024		
Process Stream	Daily Treated Effluent Maximum	Units	RE-137 Influent (SP-100)	AOP Effluent (SP-201)	Treated Effluent (SP-303)
Well Depth	N/A	ft bgs	750	N/A	N/A
Screened Interval	N/A	ft bgs	630-745	N/A	N/A
Sampling Date	N/A	N/A	2/1/2024		
System Flowrate	400	GPM	N/A	N/A	364
Total Flow	N/A	Gallons	N/A	N/A	14,898,653
pH	4.0-8.5	SU	NR	NR	5.86
1,1,2-Trichloro-1,2,2-trifluoroethane	5	µg/L	13.9	14.7	2.4
1,1,2-Trichloroethane	1	µg/L	0.47 J	0.75 U	0.75 U
1,1-Dichloroethane	5	µg/L	0.59 J	0.75 U	0.75 U
1,1-Dichloroethene	5	µg/L	3.9	0.75 U	0.75 U
1,4-Dioxane (via 8270 SIM)	0.35	µg/L	5.0	0.2 U	0.2 U
Bis(2-Ethylhexyl) phthalate	7.5	µg/L	N/A	N/A	4.1 U
Carbon Tetrachloride	5	µg/L	1.3	1.3	0.75 U
Chloroform	7	µg/L	0.62 J	0.54 J	0.75 U
cis-1,2-Dichloroethene	5	µg/L	2.1	0.75 U	0.75 U
Tetrachloroethene	5	µg/L	3.5	0.75 U	0.75 U
Trichloroethene	5	µg/L	676	0.75 U	0.75 U

Total VOCs Influent February 2024 (mg/L) 0.70  
Total VOCs Treated February 2024 (pounds) 87  
Total VOCs Treated (pounds) 2,083

µg/L - micrograms per liter.

mg/L - milligrams per liter.

AOP - Advanced Oxidation Process.

ft bgs - feet below ground surface.

GPM - gallons per minute.

J - Estimated result between laboratory method detection limit and reporting limit.

N/A - Not Applicable.

NR - Not recorded.

SPDES - State Pollutant Discharge Elimination System.

SU - Standard Units.

U - Not detected.

- Sample SP-302 was created and collected during the aeration tank upgrade. This sample is located after the carbon vessels, but before the aeration tank. During the February 2024 sampling event

1,1,2-Trichloro-1,2,2-trifluoroethane was detected at 6.8 µg/L at SP-302.

**ATTACHMENT B**  
**AIR SAMPLING RESULTS**  
**FEBRUARY 2024**

2/16/2024

Mr. Ernie Wu

Tetra Tech

Twin Oaks I, Suite 309

5700 Lake Wright Drive

Norfolk VA 23502

Project Name: NWIRP Bethpage

Project #:

Workorder #: 2402121

Dear Mr. Ernie Wu

The following report includes the data for the above referenced project for sample(s) received on 2/2/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Jade White at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Jade White

Project Manager

**WORK ORDER #: 2402121**

Work Order Summary

<b>CLIENT:</b>	Mr. Ernie Wu Tetra Tech Twin Oaks I, Suite 309 5700 Lake Wright Drive Norfolk, VA 23502	<b>BILL TO:</b>	Accounts Payable/Pittsburg Tetra Tech EC, Inc. Foster Plaza 7 661 Anderson Drive Pittsburgh, PA 15220-2745
<b>PHONE:</b>	757.466.4901	<b>P.O. #</b>	1172095
<b>FAX:</b>		<b>PROJECT #</b>	NWIRP Bethpage
<b>DATE RECEIVED:</b>	02/02/2024	<b>CONTACT:</b>	Jade White
<b>DATE COMPLETED:</b>	02/15/2024		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	RE137-upwind-Air-20240201	Modified TO-15	4.5 "Hg	2 psi
01B	RE137-upwind-Air-20240201	Modified TO-15	4.5 "Hg	2 psi
02A	RE137-Effluent-Air-20240201	Modified TO-15	5.0 "Hg	2 psi
02AA	RE137-Effluent-Air-20240201 Lab Duplic	Modified TO-15	5.0 "Hg	2 psi
02B	RE137-Effluent-Air-20240201	Modified TO-15	5.0 "Hg	2 psi
02BB	RE137-Effluent-Air-20240201 Lab Duplic	Modified TO-15	5.0 "Hg	2 psi
03A	Lab Blank	Modified TO-15	NA	NA
03B	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
04B	CCV	Modified TO-15	NA	NA
04C	CCV	Modified TO-15	NA	NA
04D	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA
05AA	LCSD	Modified TO-15	NA	NA
05B	LCS	Modified TO-15	NA	NA
05BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY:   
 \_\_\_\_\_  
 Technical Director

DATE: 02/15/24

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP – 209222, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP – T104704434-22-18, UT NELAP – CA009332022-14, VA NELAP - 12240, WA ELAP - C935  
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-017  
 Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

**LABORATORY NARRATIVE**  
**DoD QSM - TO-15 LL/SIM**  
**Tetra Tech**  
**Workorder# 2402121**

Two 6 Liter Summa Canister (100% SIM Ambient) samples were received on February 02, 2024. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liter of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

Please note the following narratives are project specific therefore may or may not be applicable to the associated sample set:

- 1) A Limit of Detection (LOD) and Method Detection Limit (MDL) study are not maintained for Total Xylenes and non-standard compounds.
- 2) Total Xylenes concentration is calculated by summing the individual concentrations of m,p-Xylene and o-Xylene.
- 3) Non-standard compounds may have different acceptance criteria than the standard TO-14A/TO-15 compound list as per contract or verbal agreement.

Method modification taken to run these samples is summarized in the table below. Specific project requirements may over-ride the EATL modifications.

<i>Requirement</i>	<i>TO-15 LL/SIM</i>	<i>ATL Modifications</i>
Blank and standards	Zero air	UHP Nitrogen provides a higher purity gas matrix than zero air

**Receiving Notes**

There were no receiving discrepancies.

**Analytical Notes**

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

A DoD QSM waiver has been established and approved between Eurofins Air Toxics and the client. A copy of the waiver is available upon request.

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target



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compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Samples were analyzed in one analytical batch on MSD-20 on 02/14/2024. The initial continuing calibration verification (CCV) for the batch is reported as lab fraction 04A and 04B the ending CCV is reported as lab fraction 04C and 04D.

4-Methyl-2-pentanone was manually integrated in the initial calibration.

### **Definition of Data Qualifying Flags**

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
 NWIRP Bethpage

<b>Client ID:</b>	RE137-upwind-Air-20240201	<b>Date/Time Analyzed:</b>	2/14/24 10:28 PM
<b>Lab ID:</b>	2402121-01A	<b>Dilution Factor:</b>	1.34
<b>Date/Time Collected:</b>	2/1/24 10:56 AM	<b>Instrument/Filename:</b>	msd20.i / 20021420
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	120-82-1	1.0	3.4	5.0	3.4 U
1,2,4-Trimethylbenzene	95-63-6	0.11	0.46	0.66	0.50 J
1,2-Dichlorobenzene	95-50-1	0.13	0.56	0.80	0.56 U
1,2-Dichloropropane	78-87-5	0.11	0.43	0.62	0.43 U
1,3,5-Trimethylbenzene	108-67-8	0.11	0.46	0.66	0.19 J
1,3-Butadiene	106-99-0	0.065	0.21	0.30	0.21 U
1,3-Dichlorobenzene	541-73-1	0.22	0.56	0.80	0.56 U
1,4-Dioxane	123-91-1	0.14	0.34	0.48	0.34 U
2,2,4-Trimethylpentane	540-84-1	0.47	2.1	3.1	1.3 J
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.35	1.3	2.0	0.51 J
2-Hexanone	591-78-6	0.29	1.9	2.7	1.9 U
2-Propanol	67-63-0	0.32	1.1	6.6	0.45 J
3-Chloropropene	107-05-1	0.40	1.4	2.1	1.4 U
4-Ethyltoluene	622-96-8	0.14	0.46	0.66	0.43 J
4-Methyl-2-pentanone	108-10-1	0.28	0.38	0.55	0.38 U
Acetone	67-64-1	0.97	1.1	6.4	4.7 J
alpha-Chlorotoluene	100-44-7	0.14	0.48	0.69	0.48 U
Bromodichloromethane	75-27-4	0.26	0.63	0.90	0.63 U
Bromoform	75-25-2	0.22	0.97	1.4	0.97 U
Bromomethane	74-83-9	0.97	1.8	26	1.8 U
Carbon Disulfide	75-15-0	0.25	1.4	2.1	1.4 U
Chlorobenzene	108-90-7	0.048	0.43	0.62	0.43 U
cis-1,3-Dichloropropene	10061-01-5	0.076	0.42	0.61	0.42 U
Cumene	98-82-8	0.091	0.46	0.66	0.46 U

EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
 NWIRP Bethpage

<b>Client ID:</b>	RE137-upwind-Air-20240201	<b>Date/Time Analyzed:</b>	2/14/24 10:28 PM
<b>Lab ID:</b>	2402121-01A	<b>Dilution Factor:</b>	1.34
<b>Date/Time Collected:</b>	2/1/24 10:56 AM	<b>Instrument/Filename:</b>	msd20.i / 20021420
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	110-82-7	0.32	1.6	2.3	0.45 J
Dibromochloromethane	124-48-1	0.11	0.80	1.1	0.80 U
Ethanol	64-17-5	0.56	0.86	5.0	3.5 J
Freon 11	75-69-4	0.11	0.53	0.75	1.4
Freon 113	76-13-1	0.25	0.72	1.0	0.61 J
Heptane	142-82-5	0.18	1.9	2.7	0.90 J
Hexachlorobutadiene	87-68-3	2.1	4.8	7.1	4.8 U
Hexane	110-54-3	0.43	1.6	2.4	1.4 J
Methylene Chloride	75-09-2	0.38	0.84	2.3	0.46 J
Propylbenzene	103-65-1	0.069	0.46	0.66	0.46 U
Styrene	100-42-5	0.076	0.40	0.57	0.40 U
Tetrahydrofuran	109-99-9	0.29	1.3	2.0	1.3 U
trans-1,3-Dichloropropene	10061-02-6	0.10	0.42	0.61	0.42 U

U = The analyte was not detected above the MDL.

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	84-134	102
4-Bromofluorobenzene	460-00-4	65-132	90
Toluene-d8	2037-26-5	81-124	99

EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
 NWIRP Bethpage

<b>Client ID:</b>	RE137-upwind-Air-20240201	<b>Date/Time Analyzed:</b>	2/14/24 10:28 PM
<b>Lab ID:</b>	2402121-01B	<b>Dilution Factor:</b>	1.34
<b>Date/Time Collected:</b>	2/1/24 10:56 AM	<b>Instrument/Filename:</b>	msd20.i / 20021420sim
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.036	0.066	0.15	0.066 U
1,1,2,2-Tetrachloroethane	79-34-5	0.020	0.083	0.18	0.083 U
1,1,2-Trichloroethane	79-00-5	0.024	0.066	0.15	0.066 U
1,1-Dichloroethane	75-34-3	0.028	0.049	0.11	0.049 U
1,1-Dichloroethene	75-35-4	0.022	0.048	0.053	0.048 U
1,2-Dibromoethane (EDB)	106-93-4	0.018	0.093	0.51	0.093 U
1,2-Dichloroethane	107-06-2	0.018	0.049	0.11	0.081 J
1,4-Dichlorobenzene	106-46-7	0.030	0.072	0.40	0.072 U
Benzene	71-43-2	0.026	0.038	0.21	2.9
Carbon Tetrachloride	56-23-5	0.051	0.076	0.17	0.47
Chloroethane	75-00-3	0.019	0.032	0.18	0.032 U
Chloroform	67-66-3	0.025	0.059	0.13	0.096 J
Chloromethane	74-87-3	0.29	0.55	1.4	0.89 J
cis-1,2-Dichloroethene	156-59-2	0.031	0.048	0.11	0.048 U
Ethyl Benzene	100-41-4	0.0087	0.052	0.12	0.32
Freon 114	76-14-2	0.031	0.084	0.19	0.11 J
Freon 12	75-71-8	0.030	0.060	0.33	2.5
m,p-Xylene	108-38-3	0.014	0.052	0.23	1.1
Methyl tert-butyl ether	1634-04-4	0.030	0.043	0.48	0.043 U
o-Xylene	95-47-6	0.011	0.052	0.12	0.42
Tetrachloroethene	127-18-4	0.0082	0.082	0.18	0.10 J
Toluene	108-88-3	0.029	0.045	0.25	2.4
trans-1,2-Dichloroethene	156-60-5	0.023	0.048	0.53	0.048 U
Trichloroethene	79-01-6	0.033	0.065	0.14	0.046 J

EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
 NWIRP Bethpage

<b>Client ID:</b>	RE137-upwind-Air-20240201	<b>Date/Time Analyzed:</b>	2/14/24 10:28 PM
<b>Lab ID:</b>	2402121-01B	<b>Dilution Factor:</b>	1.34
<b>Date/Time Collected:</b>	2/1/24 10:56 AM	<b>Instrument/Filename:</b>	msd20.i / 20021420sim
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	75-01-4	0.017	0.031	0.068	0.031 U

J = Estimated value.

U = The analyte was not detected above the MDL.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	78-131	102
4-Bromofluorobenzene	460-00-4	76-118	93
Toluene-d8	2037-26-5	77-122	105

EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
 NWIRP Bethpage

<b>Client ID:</b>	RE137-Effluent-Air-20240201	<b>Date/Time Analyzed:</b>	2/14/24 09:09 PM
<b>Lab ID:</b>	2402121-02A	<b>Dilution Factor:</b>	1.36
<b>Date/Time Collected:</b>	2/1/24 10:50 AM	<b>Instrument/Filename:</b>	msd20.i / 20021418
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	120-82-1	1.0	3.4	5.0	3.4 U
1,2,4-Trimethylbenzene	95-63-6	0.11	0.47	0.67	0.77
1,2-Dichlorobenzene	95-50-1	0.13	0.57	0.82	0.57 U
1,2-Dichloropropane	78-87-5	0.11	0.44	0.63	0.44 U
1,3,5-Trimethylbenzene	108-67-8	0.11	0.47	0.67	0.23 J
1,3-Butadiene	106-99-0	0.066	0.21	0.30	0.21 U
1,3-Dichlorobenzene	541-73-1	0.23	0.57	0.82	0.57 U
1,4-Dioxane	123-91-1	0.14	0.34	0.49	0.34 U
2,2,4-Trimethylpentane	540-84-1	0.47	2.2	3.2	2.2 U
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.36	1.4	2.0	1.1 J
2-Hexanone	591-78-6	0.30	1.9	2.8	1.9 U
2-Propanol	67-63-0	0.32	1.1	6.7	1.7 J
3-Chloropropene	107-05-1	0.41	1.4	2.1	1.4 U
4-Ethyltoluene	622-96-8	0.14	0.47	0.67	0.57 J
4-Methyl-2-pentanone	108-10-1	0.28	0.39	0.56	0.39 U
Acetone	67-64-1	0.99	1.1	6.5	16
alpha-Chlorotoluene	100-44-7	0.14	0.49	0.70	0.49 U
Bromodichloromethane	75-27-4	0.27	0.64	0.91	0.64 U
Bromoform	75-25-2	0.22	0.98	1.4	0.98 U
Bromomethane	74-83-9	0.98	1.8	26	1.8 U
Carbon Disulfide	75-15-0	0.25	1.4	2.1	1.4 U
Chlorobenzene	108-90-7	0.049	0.44	0.63	0.44 U
cis-1,3-Dichloropropene	10061-01-5	0.077	0.43	0.62	0.43 U
Cumene	98-82-8	0.093	0.47	0.67	0.10 J

EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
 NWIRP Bethpage

<b>Client ID:</b>	RE137-Effluent-Air-20240201	<b>Date/Time Analyzed:</b>	2/14/24 09:09 PM
<b>Lab ID:</b>	2402121-02A	<b>Dilution Factor:</b>	1.36
<b>Date/Time Collected:</b>	2/1/24 10:50 AM	<b>Instrument/Filename:</b>	msd20.i / 20021418
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	110-82-7	0.32	1.6	2.3	1.6 U
Dibromochloromethane	124-48-1	0.11	0.81	1.2	0.81 U
Ethanol	64-17-5	0.57	0.87	5.1	28
Freon 11	75-69-4	0.11	0.53	0.76	3.7
Freon 113	76-13-1	0.26	0.73	1.0	290
Heptane	142-82-5	0.18	1.9	2.8	0.29 J
Hexachlorobutadiene	87-68-3	2.1	4.9	7.2	4.9 U
Hexane	110-54-3	0.43	1.6	2.4	1.6 U
Methylene Chloride	75-09-2	0.39	0.85	2.4	0.57 J
Propylbenzene	103-65-1	0.070	0.47	0.67	0.15 J
Styrene	100-42-5	0.077	0.40	0.58	0.27 J
Tetrahydrofuran	109-99-9	0.30	1.4	2.0	0.97 J
trans-1,3-Dichloropropene	10061-02-6	0.11	0.43	0.62	0.43 U

U = The analyte was not detected above the MDL.

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	84-134	102
4-Bromofluorobenzene	460-00-4	65-132	94
Toluene-d8	2037-26-5	81-124	100

EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
 NWIRP Bethpage

<b>Client ID:</b>	RE137-Effluent-Air-20240201 Lab Duplic	<b>Date/Time Analyzed:</b>	2/14/24 09:48 PM
<b>Lab ID:</b>	2402121-02AA	<b>Dilution Factor:</b>	1.36
<b>Date/Time Collected:</b>	2/1/24 10:50 AM	<b>Instrument/Filename:</b>	msd20.i / 20021419
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	120-82-1	1.0	3.4	5.0	3.4 U
1,2,4-Trimethylbenzene	95-63-6	0.11	0.47	0.67	0.81
1,2-Dichlorobenzene	95-50-1	0.13	0.57	0.82	0.57 U
1,2-Dichloropropane	78-87-5	0.11	0.44	0.63	0.44 U
1,3,5-Trimethylbenzene	108-67-8	0.11	0.47	0.67	0.23 J
1,3-Butadiene	106-99-0	0.066	0.21	0.30	0.21 U
1,3-Dichlorobenzene	541-73-1	0.23	0.57	0.82	0.57 U
1,4-Dioxane	123-91-1	0.14	0.34	0.49	0.34 U
2,2,4-Trimethylpentane	540-84-1	0.47	2.2	3.2	2.2 U
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.36	1.4	2.0	0.98 J
2-Hexanone	591-78-6	0.30	1.9	2.8	1.9 U
2-Propanol	67-63-0	0.32	1.1	6.7	1.8 J
3-Chloropropene	107-05-1	0.41	1.4	2.1	1.4 U
4-Ethyltoluene	622-96-8	0.14	0.47	0.67	0.66 J
4-Methyl-2-pentanone	108-10-1	0.28	0.39	0.56	0.39 U
Acetone	67-64-1	0.99	1.1	6.5	16
alpha-Chlorotoluene	100-44-7	0.14	0.49	0.70	0.49 U
Bromodichloromethane	75-27-4	0.27	0.64	0.91	0.64 U
Bromoform	75-25-2	0.22	0.98	1.4	0.98 U
Bromomethane	74-83-9	0.98	1.8	26	1.8 U
Carbon Disulfide	75-15-0	0.25	1.4	2.1	1.4 U
Chlorobenzene	108-90-7	0.049	0.44	0.63	0.44 U
cis-1,3-Dichloropropene	10061-01-5	0.077	0.43	0.62	0.43 U
Cumene	98-82-8	0.093	0.47	0.67	0.47 U



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<b>Client ID:</b>	RE137-Effluent-Air-20240201 Lab Duplic	<b>Date/Time Analyzed:</b>	2/14/24 09:48 PM
<b>Lab ID:</b>	2402121-02AA	<b>Dilution Factor:</b>	1.36
<b>Date/Time Collected:</b>	2/1/24 10:50 AM	<b>Instrument/Filename:</b>	msd20.i / 20021419
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	110-82-7	0.32	1.6	2.3	1.6 U
Dibromochloromethane	124-48-1	0.11	0.81	1.2	0.81 U
Ethanol	64-17-5	0.57	0.87	5.1	30
Freon 11	75-69-4	0.11	0.53	0.76	3.7
Freon 113	76-13-1	0.26	0.73	1.0	290
Heptane	142-82-5	0.18	1.9	2.8	0.39 J
Hexachlorobutadiene	87-68-3	2.1	4.9	7.2	4.9 U
Hexane	110-54-3	0.43	1.6	2.4	1.6 U
Methylene Chloride	75-09-2	0.39	0.85	2.4	0.49 J
Propylbenzene	103-65-1	0.070	0.47	0.67	0.16 J
Styrene	100-42-5	0.077	0.40	0.58	0.28 J
Tetrahydrofuran	109-99-9	0.30	1.4	2.0	1.0 J
trans-1,3-Dichloropropene	10061-02-6	0.11	0.43	0.62	0.43 U

U = The analyte was not detected above the MDL.

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	84-134	103
4-Bromofluorobenzene	460-00-4	65-132	93
Toluene-d8	2037-26-5	81-124	100

EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
 NWIRP Bethpage

<b>Client ID:</b>	RE137-Effluent-Air-20240201	<b>Date/Time Analyzed:</b>	2/14/24 09:09 PM
<b>Lab ID:</b>	2402121-02B	<b>Dilution Factor:</b>	1.36
<b>Date/Time Collected:</b>	2/1/24 10:50 AM	<b>Instrument/Filename:</b>	msd20.i / 20021418sim
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.036	0.067	0.15	0.55
1,1,2,2-Tetrachloroethane	79-34-5	0.020	0.084	0.19	0.084 U
1,1,2-Trichloroethane	79-00-5	0.024	0.067	0.15	0.067 U
1,1-Dichloroethane	75-34-3	0.029	0.050	0.11	3.5
1,1-Dichloroethene	75-35-4	0.023	0.048	0.054	0.31
1,2-Dibromoethane (EDB)	106-93-4	0.018	0.094	0.52	0.094 U
1,2-Dichloroethane	107-06-2	0.018	0.050	0.11	0.22
1,4-Dichlorobenzene	106-46-7	0.030	0.074	0.41	0.074 U
Benzene	71-43-2	0.027	0.039	0.22	3.0
Carbon Tetrachloride	56-23-5	0.052	0.077	0.17	1.4
Chloroethane	75-00-3	0.019	0.032	0.18	0.032 U
Chloroform	67-66-3	0.025	0.060	0.13	3.4
Chloromethane	74-87-3	0.30	0.56	1.4	0.80 J
cis-1,2-Dichloroethene	156-59-2	0.032	0.048	0.11	0.048 U
Ethyl Benzene	100-41-4	0.0088	0.053	0.12	0.42
Freon 114	76-14-2	0.032	0.086	0.19	0.11 J
Freon 12	75-71-8	0.031	0.060	0.34	13
m,p-Xylene	108-38-3	0.014	0.053	0.24	1.3
Methyl tert-butyl ether	1634-04-4	0.030	0.044	0.49	0.044 U
o-Xylene	95-47-6	0.012	0.053	0.12	0.52
Tetrachloroethene	127-18-4	0.0084	0.083	0.18	0.12 J
Toluene	108-88-3	0.030	0.046	0.26	3.6
trans-1,2-Dichloroethene	156-60-5	0.024	0.048	0.54	0.048 U
Trichloroethene	79-01-6	0.033	0.066	0.15	0.056 J

EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
 NWIRP Bethpage

<b>Client ID:</b>	RE137-Effluent-Air-20240201	<b>Date/Time Analyzed:</b>	2/14/24 09:09 PM
<b>Lab ID:</b>	2402121-02B	<b>Dilution Factor:</b>	1.36
<b>Date/Time Collected:</b>	2/1/24 10:50 AM	<b>Instrument/Filename:</b>	msd20.i / 20021418sim
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	75-01-4	0.017	0.031	0.070	0.031 U

J = Estimated value.

U = The analyte was not detected above the MDL.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	78-131	100
4-Bromofluorobenzene	460-00-4	76-118	96
Toluene-d8	2037-26-5	77-122	106

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 NWIRP Bethpage

<b>Client ID:</b>	RE137-Effluent-Air-20240201 Lab Duplic	<b>Date/Time Analyzed:</b>	2/14/24 09:48 PM
<b>Lab ID:</b>	2402121-02BB	<b>Dilution Factor:</b>	1.36
<b>Date/Time Collected:</b>	2/1/24 10:50 AM	<b>Instrument/Filename:</b>	msd20.i / 20021419sim
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambier)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.036	0.067	0.15	0.58
1,1,2,2-Tetrachloroethane	79-34-5	0.020	0.084	0.19	0.084 U
1,1,2-Trichloroethane	79-00-5	0.024	0.067	0.15	0.067 U
1,1-Dichloroethane	75-34-3	0.029	0.050	0.11	3.7
1,1-Dichloroethene	75-35-4	0.023	0.048	0.054	0.32
1,2-Dibromoethane (EDB)	106-93-4	0.018	0.094	0.52	0.094 U
1,2-Dichloroethane	107-06-2	0.018	0.050	0.11	0.22
1,4-Dichlorobenzene	106-46-7	0.030	0.074	0.41	0.074 U
Benzene	71-43-2	0.027	0.039	0.22	3.0
Carbon Tetrachloride	56-23-5	0.052	0.077	0.17	1.4
Chloroethane	75-00-3	0.019	0.032	0.18	0.032 U
Chloroform	67-66-3	0.025	0.060	0.13	3.6
Chloromethane	74-87-3	0.30	0.56	1.4	0.85 J
cis-1,2-Dichloroethene	156-59-2	0.032	0.048	0.11	0.048 U
Ethyl Benzene	100-41-4	0.0088	0.053	0.12	0.42
Freon 114	76-14-2	0.032	0.086	0.19	0.11 J
Freon 12	75-71-8	0.031	0.060	0.34	14
m,p-Xylene	108-38-3	0.014	0.053	0.24	1.4
Methyl tert-butyl ether	1634-04-4	0.030	0.044	0.49	0.044 U
o-Xylene	95-47-6	0.012	0.053	0.12	0.52
Tetrachloroethene	127-18-4	0.0084	0.083	0.18	0.12 J
Toluene	108-88-3	0.030	0.046	0.26	3.6
trans-1,2-Dichloroethene	156-60-5	0.024	0.048	0.54	0.048 U
Trichloroethene	79-01-6	0.033	0.066	0.15	0.052 J

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<b>Client ID:</b>	RE137-Effluent-Air-20240201 Lab Duplic	<b>Date/Time Analyzed:</b>	2/14/24 09:48 PM
<b>Lab ID:</b>	2402121-02BB	<b>Dilution Factor:</b>	1.36
<b>Date/Time Collected:</b>	2/1/24 10:50 AM	<b>Instrument/Filename:</b>	msd20.i / 20021419sim
<b>Media:</b>	6 Liter Summa Canister (100% SIM Ambier		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	75-01-4	0.017	0.031	0.070	0.031 U

J = Estimated value.

U = The analyte was not detected above the MDL.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	78-131	106
4-Bromofluorobenzene	460-00-4	76-118	95
Toluene-d8	2037-26-5	77-122	107

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<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	2/14/24 11:39 AM
<b>Lab ID:</b>	2402121-03A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021406a
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,2,4-Trichlorobenzene	120-82-1	0.75	2.5	3.7	2.5 U
1,2,4-Trimethylbenzene	95-63-6	0.084	0.34	0.49	0.34 U
1,2-Dichlorobenzene	95-50-1	0.096	0.42	0.60	0.42 U
1,2-Dichloropropane	78-87-5	0.082	0.32	0.46	0.32 U
1,3,5-Trimethylbenzene	108-67-8	0.083	0.34	0.49	0.34 U
1,3-Butadiene	106-99-0	0.048	0.15	0.22	0.15 U
1,3-Dichlorobenzene	541-73-1	0.17	0.42	0.60	0.42 U
1,4-Dioxane	123-91-1	0.10	0.25	0.36	0.25 U
2,2,4-Trimethylpentane	540-84-1	0.35	1.6	2.3	1.6 U
2-Butanone (Methyl Ethyl Ketone)	78-93-3	0.26	1.0	1.5	1.0 U
2-Hexanone	591-78-6	0.22	1.4	2.0	1.4 U
2-Propanol	67-63-0	0.24	0.84	4.9	0.84 U
3-Chloropropene	107-05-1	0.30	1.1	1.6	1.1 U
4-Ethyltoluene	622-96-8	0.10	0.34	0.49	0.34 U
4-Methyl-2-pentanone	108-10-1	0.21	0.29	0.41	0.29 U
Acetone	67-64-1	0.72	0.81	4.8	0.81 U
alpha-Chlorotoluene	100-44-7	0.10	0.36	0.52	0.12 J
Bromodichloromethane	75-27-4	0.20	0.47	0.67	0.47 U
Bromoform	75-25-2	0.16	0.72	1.0	0.72 U
Bromomethane	74-83-9	0.72	1.3	19	1.3 U
Carbon Disulfide	75-15-0	0.18	1.0	1.6	1.0 U
Chlorobenzene	108-90-7	0.036	0.32	0.46	0.32 U
cis-1,3-Dichloropropene	10061-01-5	0.057	0.32	0.45	0.32 U
Cumene	98-82-8	0.068	0.34	0.49	0.34 U

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<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	2/14/24 11:39 AM
<b>Lab ID:</b>	2402121-03A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021406a
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Cyclohexane	110-82-7	0.24	1.2	1.7	1.2 U
Dibromochloromethane	124-48-1	0.084	0.60	0.85	0.60 U
Ethanol	64-17-5	0.42	0.64	3.8	0.64 U
Freon 11	75-69-4	0.084	0.39	0.56	0.39 U
Freon 113	76-13-1	0.19	0.54	0.77	0.54 U
Heptane	142-82-5	0.14	1.4	2.0	1.4 U
Hexachlorobutadiene	87-68-3	1.6	3.6	5.3	3.6 U
Hexane	110-54-3	0.32	1.2	1.8	1.2 U
Methylene Chloride	75-09-2	0.29	0.62	1.7	0.62 U
Propylbenzene	103-65-1	0.052	0.34	0.49	0.34 U
Styrene	100-42-5	0.057	0.30	0.42	0.30 U
Tetrahydrofuran	109-99-9	0.22	1.0	1.5	1.0 U
trans-1,3-Dichloropropene	10061-02-6	0.079	0.32	0.45	0.32 U

U = The analyte was not detected above the MDL.

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	84-134	103
4-Bromofluorobenzene	460-00-4	65-132	91
Toluene-d8	2037-26-5	81-124	99

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<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	2/14/24 11:39 AM
<b>Lab ID:</b>	2402121-03B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021406sima
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,1,1-Trichloroethane	71-55-6	0.027	0.049	0.11	0.049 U
1,1,2,2-Tetrachloroethane	79-34-5	0.015	0.062	0.14	0.044 J
1,1,2-Trichloroethane	79-00-5	0.018	0.049	0.11	0.049 U
1,1-Dichloroethane	75-34-3	0.021	0.036	0.081	0.036 U
1,1-Dichloroethene	75-35-4	0.017	0.036	0.040	0.036 U
1,2-Dibromoethane (EDB)	106-93-4	0.013	0.069	0.38	0.013 J
1,2-Dichloroethane	107-06-2	0.013	0.036	0.081	0.036 U
1,4-Dichlorobenzene	106-46-7	0.022	0.054	0.30	0.052 J
Benzene	71-43-2	0.020	0.029	0.16	0.029 U
Carbon Tetrachloride	56-23-5	0.038	0.057	0.12	0.057 U
Chloroethane	75-00-3	0.014	0.024	0.13	0.024 U
Chloroform	67-66-3	0.019	0.044	0.098	0.044 U
Chloromethane	74-87-3	0.22	0.41	1.0	0.41 U
cis-1,2-Dichloroethene	156-59-2	0.023	0.036	0.079	0.036 U
Ethyl Benzene	100-41-4	0.0065	0.039	0.087	0.039 U
Freon 114	76-14-2	0.023	0.063	0.14	0.063 U
Freon 12	75-71-8	0.023	0.044	0.25	0.044 U
m,p-Xylene	108-38-3	0.010	0.039	0.17	0.039 U
Methyl tert-butyl ether	1634-04-4	0.022	0.032	0.36	0.032 U
o-Xylene	95-47-6	0.0085	0.039	0.087	0.039 U
Tetrachloroethene	127-18-4	0.0061	0.061	0.14	0.0072 J
Toluene	108-88-3	0.022	0.034	0.19	0.034 U
trans-1,2-Dichloroethene	156-60-5	0.017	0.036	0.40	0.036 U
Trichloroethene	79-01-6	0.024	0.048	0.11	0.048 U



EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
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<b>Client ID:</b>	Lab Blank	<b>Date/Time Analyzed:</b>	2/14/24 11:39 AM
<b>Lab ID:</b>	2402121-03B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021406sima
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	75-01-4	0.012	0.023	0.051	0.023 U

U = The analyte was not detected above the MDL.

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	78-131	108
4-Bromofluorobenzene	460-00-4	76-118	93
Toluene-d8	2037-26-5	77-122	105

EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
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<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	2/14/24 08:27 AM
<b>Lab ID:</b>	2402121-04A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021402a
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,2,4-Trichlorobenzene	120-82-1	101
1,2,4-Trimethylbenzene	95-63-6	86
1,2-Dichlorobenzene	95-50-1	88
1,2-Dichloropropane	78-87-5	101
1,3,5-Trimethylbenzene	108-67-8	84
1,3-Butadiene	106-99-0	105
1,3-Dichlorobenzene	541-73-1	87
1,4-Dioxane	123-91-1	102
2,2,4-Trimethylpentane	540-84-1	96
2-Butanone (Methyl Ethyl Ketone)	78-93-3	103
2-Hexanone	591-78-6	87
2-Propanol	67-63-0	82
3-Chloropropene	107-05-1	113
4-Ethyltoluene	622-96-8	88
4-Methyl-2-pentanone	108-10-1	90
Acetone	67-64-1	92
alpha-Chlorotoluene	100-44-7	93
Bromodichloromethane	75-27-4	95
Bromoform	75-25-2	79
Bromomethane	74-83-9	145 Q
Carbon Disulfide	75-15-0	113
Chlorobenzene	108-90-7	97
cis-1,3-Dichloropropene	10061-01-5	99
Cumene	98-82-8	95

EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
 NWIRP Bethpage

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	2/14/24 08:27 AM
<b>Lab ID:</b>	2402121-04A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021402a
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Cyclohexane	110-82-7	105
Dibromochloromethane	124-48-1	90
Ethanol	64-17-5	96
Freon 11	75-69-4	107
Freon 113	76-13-1	96
Heptane	142-82-5	104
Hexachlorobutadiene	87-68-3	135 Q
Hexane	110-54-3	92
Methylene Chloride	75-09-2	110
Propylbenzene	103-65-1	98
Styrene	100-42-5	96
Tetrahydrofuran	109-99-9	95
trans-1,3-Dichloropropene	10061-02-6	93

Q = Exceeds Quality Control limits.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	84-134	94
4-Bromofluorobenzene	460-00-4	65-132	106
Toluene-d8	2037-26-5	81-124	102

EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
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<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	2/14/24 08:27 AM
<b>Lab ID:</b>	2402121-04B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021402sima
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	97
1,1,2,2-Tetrachloroethane	79-34-5	90
1,1,2-Trichloroethane	79-00-5	98
1,1-Dichloroethane	75-34-3	97
1,1-Dichloroethene	75-35-4	94
1,2-Dibromoethane (EDB)	106-93-4	93
1,2-Dichloroethane	107-06-2	98
1,4-Dichlorobenzene	106-46-7	81
Benzene	71-43-2	104
Carbon Tetrachloride	56-23-5	105
Chloroethane	75-00-3	106
Chloroform	67-66-3	99
Chloromethane	74-87-3	89
cis-1,2-Dichloroethene	156-59-2	97
Ethyl Benzene	100-41-4	95
Freon 114	76-14-2	92
Freon 12	75-71-8	100
m,p-Xylene	108-38-3	90
Methyl tert-butyl ether	1634-04-4	91
o-Xylene	95-47-6	86
Tetrachloroethene	127-18-4	86
Toluene	108-88-3	100
trans-1,2-Dichloroethene	156-60-5	98
Trichloroethene	79-01-6	97

EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
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<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	2/14/24 08:27 AM
<b>Lab ID:</b>	2402121-04B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021402sima
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Vinyl Chloride	75-01-4	96

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	78-131	94
4-Bromofluorobenzene	460-00-4	76-118	107
Toluene-d8	2037-26-5	77-122	109

EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
 NWIRP Bethpage

<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	2/14/24 11:06 PM
<b>Lab ID:</b>	2402121-04C	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021421
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,2,4-Trichlorobenzene	120-82-1	97
1,2,4-Trimethylbenzene	95-63-6	86
1,2-Dichlorobenzene	95-50-1	90
1,2-Dichloropropane	78-87-5	102
1,3,5-Trimethylbenzene	108-67-8	86
1,3-Butadiene	106-99-0	104
1,3-Dichlorobenzene	541-73-1	90
1,4-Dioxane	123-91-1	99
2,2,4-Trimethylpentane	540-84-1	105
2-Butanone (Methyl Ethyl Ketone)	78-93-3	100
2-Hexanone	591-78-6	86
2-Propanol	67-63-0	79
3-Chloropropene	107-05-1	112
4-Ethyltoluene	622-96-8	85
4-Methyl-2-pentanone	108-10-1	89
Acetone	67-64-1	88
alpha-Chlorotoluene	100-44-7	95
Bromodichloromethane	75-27-4	96
Bromoform	75-25-2	80
Bromomethane	74-83-9	142 Q
Carbon Disulfide	75-15-0	112
Chlorobenzene	108-90-7	97
cis-1,3-Dichloropropene	10061-01-5	99
Cumene	98-82-8	94

EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
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<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	2/14/24 11:06 PM
<b>Lab ID:</b>	2402121-04C	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021421
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Cyclohexane	110-82-7	103
Dibromochloromethane	124-48-1	92
Ethanol	64-17-5	91
Freon 11	75-69-4	105
Freon 113	76-13-1	96
Heptane	142-82-5	106
Hexachlorobutadiene	87-68-3	129
Hexane	110-54-3	90
Methylene Chloride	75-09-2	108
Propylbenzene	103-65-1	99
Styrene	100-42-5	96
Tetrahydrofuran	109-99-9	84
trans-1,3-Dichloropropene	10061-02-6	93

Q = Exceeds Quality Control limits.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	84-134	94
4-Bromofluorobenzene	460-00-4	65-132	111
Toluene-d8	2037-26-5	81-124	103

EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
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<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	2/14/24 11:06 PM
<b>Lab ID:</b>	2402121-04D	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021421sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	94
1,1,2,2-Tetrachloroethane	79-34-5	95
1,1,2-Trichloroethane	79-00-5	99
1,1-Dichloroethane	75-34-3	95
1,1-Dichloroethene	75-35-4	92
1,2-Dibromoethane (EDB)	106-93-4	94
1,2-Dichloroethane	107-06-2	98
1,4-Dichlorobenzene	106-46-7	82
Benzene	71-43-2	104
Carbon Tetrachloride	56-23-5	103
Chloroethane	75-00-3	101
Chloroform	67-66-3	96
Chloromethane	74-87-3	87
cis-1,2-Dichloroethene	156-59-2	95
Ethyl Benzene	100-41-4	95
Freon 114	76-14-2	91
Freon 12	75-71-8	98
m,p-Xylene	108-38-3	89
Methyl tert-butyl ether	1634-04-4	87
o-Xylene	95-47-6	84
Tetrachloroethene	127-18-4	86
Toluene	108-88-3	99
trans-1,2-Dichloroethene	156-60-5	97
Trichloroethene	79-01-6	100



EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
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<b>Client ID:</b>	CCV	<b>Date/Time Analyzed:</b>	2/14/24 11:06 PM
<b>Lab ID:</b>	2402121-04D	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021421sim
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Vinyl Chloride	75-01-4	92

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	78-131	92
4-Bromofluorobenzene	460-00-4	76-118	112
Toluene-d8	2037-26-5	77-122	109

EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
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<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	2/14/24 09:18 AM
<b>Lab ID:</b>	2402121-05A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021403a
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,2,4-Trichlorobenzene	120-82-1	109
1,2,4-Trimethylbenzene	95-63-6	87
1,2-Dichlorobenzene	95-50-1	89
1,2-Dichloropropane	78-87-5	95
1,3,5-Trimethylbenzene	108-67-8	84
1,3-Butadiene	106-99-0	105
1,3-Dichlorobenzene	541-73-1	90
1,4-Dioxane	123-91-1	95
2,2,4-Trimethylpentane	540-84-1	91
2-Butanone (Methyl Ethyl Ketone)	78-93-3	101
2-Hexanone	591-78-6	84
2-Propanol	67-63-0	81
3-Chloropropene	107-05-1	92
4-Ethyltoluene	622-96-8	90
4-Methyl-2-pentanone	108-10-1	86
Acetone	67-64-1	90
alpha-Chlorotoluene	100-44-7	97
Bromodichloromethane	75-27-4	96
Bromoform	75-25-2	97
Bromomethane	74-83-9	141 Q
Carbon Disulfide	75-15-0	113
Chlorobenzene	108-90-7	96
cis-1,3-Dichloropropene	10061-01-5	99
Cumene	98-82-8	92

\* % Recovery is calculated using unrounded analytical results.

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<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	2/14/24 09:18 AM
<b>Lab ID:</b>	2402121-05A	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021403a
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Cyclohexane	110-82-7	102
Dibromochloromethane	124-48-1	94
Ethanol	64-17-5	109
Freon 11	75-69-4	106
Freon 113	76-13-1	92
Heptane	142-82-5	103
Hexachlorobutadiene	87-68-3	140 Q
Hexane	110-54-3	89
Methylene Chloride	75-09-2	100
Propylbenzene	103-65-1	96
Styrene	100-42-5	96
Tetrahydrofuran	109-99-9	89
trans-1,3-Dichloropropene	10061-02-6	92

Q = Exceeds Quality Control limits.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	84-134	94
4-Bromofluorobenzene	460-00-4	65-132	110
Toluene-d8	2037-26-5	81-124	101

\* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS SIM/FULL SCAN  
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<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	2/14/24 09:56 AM
<b>Lab ID:</b>	2402121-05AA	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021404a
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,2,4-Trichlorobenzene	120-82-1	106
1,2,4-Trimethylbenzene	95-63-6	88
1,2-Dichlorobenzene	95-50-1	90
1,2-Dichloropropane	78-87-5	96
1,3,5-Trimethylbenzene	108-67-8	83
1,3-Butadiene	106-99-0	107
1,3-Dichlorobenzene	541-73-1	90
1,4-Dioxane	123-91-1	95
2,2,4-Trimethylpentane	540-84-1	103
2-Butanone (Methyl Ethyl Ketone)	78-93-3	101
2-Hexanone	591-78-6	82
2-Propanol	67-63-0	83
3-Chloropropene	107-05-1	92
4-Ethyltoluene	622-96-8	88
4-Methyl-2-pentanone	108-10-1	86
Acetone	67-64-1	92
alpha-Chlorotoluene	100-44-7	98
Bromodichloromethane	75-27-4	94
Bromoform	75-25-2	97
Bromomethane	74-83-9	139 Q
Carbon Disulfide	75-15-0	112
Chlorobenzene	108-90-7	95
cis-1,3-Dichloropropene	10061-01-5	99
Cumene	98-82-8	92

\* % Recovery is calculated using unrounded analytical results.

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<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	2/14/24 09:56 AM
<b>Lab ID:</b>	2402121-05AA	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021404a
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Cyclohexane	110-82-7	102
Dibromochloromethane	124-48-1	94
Ethanol	64-17-5	114
Freon 11	75-69-4	106
Freon 113	76-13-1	93
Heptane	142-82-5	100
Hexachlorobutadiene	87-68-3	136
Hexane	110-54-3	89
Methylene Chloride	75-09-2	101
Propylbenzene	103-65-1	98
Styrene	100-42-5	96
Tetrahydrofuran	109-99-9	100
trans-1,3-Dichloropropene	10061-02-6	89

Q = Exceeds Quality Control limits.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	84-134	93
4-Bromofluorobenzene	460-00-4	65-132	109
Toluene-d8	2037-26-5	81-124	100

\* % Recovery is calculated using unrounded analytical results.

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<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	2/14/24 09:18 AM
<b>Lab ID:</b>	2402121-05B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021403sima
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	97
1,1,2,2-Tetrachloroethane	79-34-5	91
1,1,2-Trichloroethane	79-00-5	98
1,1-Dichloroethane	75-34-3	98
1,1-Dichloroethene	75-35-4	94
1,2-Dibromoethane (EDB)	106-93-4	93
1,2-Dichloroethane	107-06-2	94
1,4-Dichlorobenzene	106-46-7	81
Benzene	71-43-2	98
Carbon Tetrachloride	56-23-5	84
Chloroethane	75-00-3	106
Chloroform	67-66-3	94
Chloromethane	74-87-3	89
cis-1,2-Dichloroethene	156-59-2	98
Ethyl Benzene	100-41-4	94
Freon 114	76-14-2	93
Freon 12	75-71-8	100
m,p-Xylene	108-38-3	87
Methyl tert-butyl ether	1634-04-4	88
o-Xylene	95-47-6	84
Tetrachloroethene	127-18-4	84
Toluene	108-88-3	93
trans-1,2-Dichloroethene	156-60-5	98
Trichloroethene	79-01-6	94

\* % Recovery is calculated using unrounded analytical results.

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<b>Client ID:</b>	LCS	<b>Date/Time Analyzed:</b>	2/14/24 09:18 AM
<b>Lab ID:</b>	2402121-05B	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021403sima
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Vinyl Chloride	75-01-4	96

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	78-131	94
4-Bromofluorobenzene	460-00-4	76-118	108
Toluene-d8	2037-26-5	77-122	106

\* % Recovery is calculated using unrounded analytical results.

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<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	2/14/24 09:56 AM
<b>Lab ID:</b>	2402121-05BB	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021404sima
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
1,1,1-Trichloroethane	71-55-6	96
1,1,2,2-Tetrachloroethane	79-34-5	95
1,1,2-Trichloroethane	79-00-5	98
1,1-Dichloroethane	75-34-3	96
1,1-Dichloroethene	75-35-4	94
1,2-Dibromoethane (EDB)	106-93-4	94
1,2-Dichloroethane	107-06-2	93
1,4-Dichlorobenzene	106-46-7	82
Benzene	71-43-2	97
Carbon Tetrachloride	56-23-5	83
Chloroethane	75-00-3	105
Chloroform	67-66-3	92
Chloromethane	74-87-3	90
cis-1,2-Dichloroethene	156-59-2	97
Ethyl Benzene	100-41-4	94
Freon 114	76-14-2	94
Freon 12	75-71-8	99
m,p-Xylene	108-38-3	86
Methyl tert-butyl ether	1634-04-4	87
o-Xylene	95-47-6	84
Tetrachloroethene	127-18-4	85
Toluene	108-88-3	92
trans-1,2-Dichloroethene	156-60-5	98
Trichloroethene	79-01-6	94

\* % Recovery is calculated using unrounded analytical results.



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<b>Client ID:</b>	LCSD	<b>Date/Time Analyzed:</b>	2/14/24 09:56 AM
<b>Lab ID:</b>	2402121-05BB	<b>Dilution Factor:</b>	1.00
<b>Date/Time Collected:</b>	NA - Not Applicable	<b>Instrument/Filename:</b>	msd20.i / 20021404sima
<b>Media:</b>	NA - Not Applicable		

Compound	CAS#	%Recovery
Vinyl Chloride	75-01-4	96

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	78-131	94
4-Bromofluorobenzene	460-00-4	76-118	108
Toluene-d8	2037-26-5	77-122	105

\* % Recovery is calculated using unrounded analytical results.