

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey
Arcadis U.S., Inc.
28550 Cabot Drive
Suite 500
Novi, Michigan 48377

Generated 3/6/2024 8:50:22 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-200085-1

Eurofins Cleveland

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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Authorized for release by
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Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - Off Site

Job ID: 240-200085-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Arcadis U.S., Inc.
Project: Ford LTP - Off Site

Job ID: 240-200085-1

Job ID: 240-200085-1

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Job Narrative 240-200085-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/28/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.2°C and 2.8°C.

GC/MS VOA

Method 8260D_SIM: The following sample(s) was unable to be prepared and/or analyzed due to machine error : MS/MSD.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - Off Site

Job ID: 240-200085-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396



Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - Off Site

Job ID: 240-200085-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-200085-1	TRIP BLANK_125	Water	02/21/24 00:00	02/28/24 08:00
240-200085-2	MW-126S_022124	Water	02/21/24 14:05	02/28/24 08:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - Off Site

Job ID: 240-200085-1

Client Sample ID: TRIP BLANK_125

Lab Sample ID: 240-200085-1

No Detections.

Client Sample ID: MW-126S_022124

Lab Sample ID: 240-200085-2

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: Ford LTP - Off Site

Job ID: 240-200085-1

Client Sample ID: TRIP BLANK_125

Lab Sample ID: 240-200085-1

Date Collected: 02/21/24 00:00

Matrix: Water

Date Received: 02/28/24 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/24 19:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/24 19:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/24 19:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/24 19:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/24 19:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/24 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		62 - 137		03/01/24 19:15	1
4-Bromofluorobenzene (Surr)	96		56 - 136		03/01/24 19:15	1
Toluene-d8 (Surr)	106		78 - 122		03/01/24 19:15	1
Dibromofluoromethane (Surr)	104		73 - 120		03/01/24 19:15	1

Client Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: Ford LTP - Off Site

Job ID: 240-200085-1

Client Sample ID: MW-126S_022124

Lab Sample ID: 240-200085-2

Date Collected: 02/21/24 14:05

Matrix: Water

Date Received: 02/28/24 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/02/24 01:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 127					03/02/24 01:36	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/24 22:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/24 22:51	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/24 22:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/24 22:51	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/24 22:51	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/24 22:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		62 - 137					03/01/24 22:51	1
4-Bromofluorobenzene (Surr)	98		56 - 136					03/01/24 22:51	1
Toluene-d8 (Surr)	108		78 - 122					03/01/24 22:51	1
Dibromofluoromethane (Surr)	108		73 - 120					03/01/24 22:51	1

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - Off Site

Job ID: 240-200085-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	TOL	DBFM
		(62-137)	(56-136)	(78-122)	(73-120)
240-200085-1	TRIP BLANK_125	117	96	106	104
240-200085-2	MW-126S_022124	121	98	108	108
240-200125-B-1 MS	Matrix Spike	116	100	108	104
240-200125-B-1 MSD	Matrix Spike Duplicate	116	102	109	105
LCS 240-604751/5	Lab Control Sample	117	102	107	104
MB 240-604751/8	Method Blank	118	98	107	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA
		(68-127)
240-200085-2	MW-126S_022124	108
LCS 240-604761/4	Lab Control Sample	102
MB 240-604761/6	Method Blank	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - Off Site

Job ID: 240-200085-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-604751/8
Matrix: Water
Analysis Batch: 604751

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/24 18:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/24 18:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/24 18:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/24 18:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/24 18:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/24 18:27	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	118		62 - 137		03/01/24 18:27	1
4-Bromofluorobenzene (Surr)	98		56 - 136		03/01/24 18:27	1
Toluene-d8 (Surr)	107		78 - 122		03/01/24 18:27	1
Dibromofluoromethane (Surr)	104		73 - 120		03/01/24 18:27	1

Lab Sample ID: LCS 240-604751/5
Matrix: Water
Analysis Batch: 604751

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1-Dichloroethene	25.0	26.6		ug/L		106	63 - 134
cis-1,2-Dichloroethene	25.0	24.4		ug/L		98	77 - 123
Tetrachloroethene	25.0	27.3		ug/L		109	76 - 123
trans-1,2-Dichloroethene	25.0	25.4		ug/L		102	75 - 124
Trichloroethene	25.0	25.6		ug/L		102	70 - 122
Vinyl chloride	12.5	9.33		ug/L		75	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	117		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	107		78 - 122
Dibromofluoromethane (Surr)	104		73 - 120

Lab Sample ID: 240-200125-B-1 MS
Matrix: Water
Analysis Batch: 604751

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	100	U	2500	2510		ug/L		100	56 - 135
cis-1,2-Dichloroethene	150		2500	2550		ug/L		96	66 - 128
Tetrachloroethene	100	U	2500	2430		ug/L		97	62 - 131
trans-1,2-Dichloroethene	100	U	2500	2410		ug/L		97	56 - 136
Trichloroethene	1800		2500	3990		ug/L		89	61 - 124
Vinyl chloride	100	U	1250	931		ug/L		74	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	116		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	108		78 - 122

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QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - Off Site

Job ID: 240-200085-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 240-200125-B-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 604751

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	104		73 - 120

Lab Sample ID: 240-200125-B-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 604751

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	100	U	2500	2500		ug/L		100	56 - 135	0	26
cis-1,2-Dichloroethene	150		2500	2580		ug/L		97	66 - 128	1	14
Tetrachloroethene	100	U	2500	2480		ug/L		99	62 - 131	2	20
trans-1,2-Dichloroethene	100	U	2500	2420		ug/L		97	56 - 136	0	15
Trichloroethene	1800		2500	4010		ug/L		90	61 - 124	0	15
Vinyl chloride	100	U	1250	964		ug/L		77	43 - 157	4	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	116		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	109		78 - 122
Dibromofluoromethane (Surr)	105		73 - 120

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-604761/6

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 604761

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/01/24 23:04	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	104		68 - 127		03/01/24 23:04	1

Lab Sample ID: LCS 240-604761/4

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 604761

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	10.0	9.73		ug/L		97	75 - 121

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		68 - 127

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - Off Site

Job ID: 240-200085-1

GC/MS VOA

Analysis Batch: 604751

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200085-1	TRIP BLANK_125	Total/NA	Water	8260D	
240-200085-2	MW-126S_022124	Total/NA	Water	8260D	
MB 240-604751/8	Method Blank	Total/NA	Water	8260D	
LCS 240-604751/5	Lab Control Sample	Total/NA	Water	8260D	
240-200125-B-1 MS	Matrix Spike	Total/NA	Water	8260D	
240-200125-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 604761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200085-2	MW-126S_022124	Total/NA	Water	8260D SIM	
MB 240-604761/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-604761/4	Lab Control Sample	Total/NA	Water	8260D SIM	

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - Off Site

Job ID: 240-200085-1

Client Sample ID: TRIP BLANK_125

Lab Sample ID: 240-200085-1

Date Collected: 02/21/24 00:00

Matrix: Water

Date Received: 02/28/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	604751	CDG	EET CLE	03/01/24 19:15

Client Sample ID: MW-126S_022124

Lab Sample ID: 240-200085-2

Date Collected: 02/21/24 14:05

Matrix: Water

Date Received: 02/28/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	604751	CDG	EET CLE	03/01/24 22:51
Total/NA	Analysis	8260D SIM		1	604761	MDH	EET CLE	03/02/24 01:36

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - Off Site

Job ID: 240-200085-1

Laboratory: Eurofins Cleveland

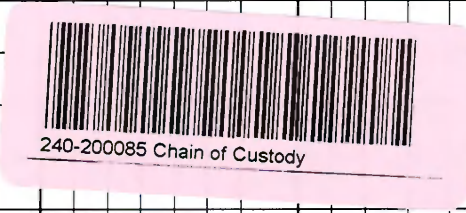
All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24 *
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	03-03-24
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-01-24
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

Client Contact Company Name: Arcadis Address: 28550 Cabot Drive, Suite 500 City/State/Zip: Novi, MI, 48377 Phone: 248-994-2240 Project Name: Ford LTP Off-Site Project Number: 30167538.402.04 PO # 30167538.402.04		Regulatory program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other		TestAmerica Laboratories, Inc. Client Project Manager: Kris Hlnskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico COC No:	
Telephone: 248-994-2240 Em all: kristoffer.hlnskey@arcadis.com		Telephone: 248-994-2240 Telephone: 330-497-9396		1 of 1 COCs For lab use only	
Sampler Name: <u>Lottie Jay</u> Method of Shipment/Carrier: Shipping/Tracking No:		Analysis Turnaround Time TAT if different from below <input type="checkbox"/> 3 weeks <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Analyses Walk-in client Lab sampling Job/SDG No:	
Sample Identification		Matrix Aliq: <input type="checkbox"/> Aqueous <input type="checkbox"/> Solvent <input type="checkbox"/> Solid <input type="checkbox"/> Other:		Containers & Preservatives H2SO4 HNO3 HCl NaOH Zn+P NaOH Uppres Other:	
Sample Date Sample Time		Filtered Sample (Y/N) Composite=C / Grab=G		1,1-DCE 8260D cis-1,2-DCE 8260D Trans-1,2-DCE 8260D PCE 8260D TCE 8260D Vinyl Chloride 8260D 1,4-Dioxane 8260D SIM	
TRIP BLANK_125		-- -- 1		NG X X X X X X	
MW-1265_022124		2/21/24 1405 6		NG X X X X X X	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Special Instructions/QC Requirements & Comments: Sample Address: 34966 Standish St Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.					
Relinquished by: <u>Lottie Jay</u> Company: <u>ARCADIS</u> Date/Time: <u>2/21/24 1545</u>		Received by: <u>NOVI COLD STORAGE</u> Company: <u>ARCADIS</u> Date/Time: <u>2/21/24 1545</u>		Relinquished by: <u>[Signature]</u> Company: <u>ARCADIS</u> Date/Time: <u>2/27/24 0855</u>	
Relinquished by: <u>[Signature]</u> Company: <u>EETA</u> Date/Time: <u>2/27/24 0855</u>		Received by: <u>[Signature]</u> Company: <u>EETA</u> Date/Time: <u>2/27/24 0855</u>		Relinquished by: <u>[Signature]</u> Company: <u>EETA</u> Date/Time: <u>2/29/24 8AM</u>	



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Eurofins - Cleveland Sample Receipt Form/Narrative Login # _____

Barberon Facility Cooler unpacked by M. Woods

Client Prodds Site Name _____

Cooler Received on 2-27-24 Opened on 2-27-24

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off _____ Eurofins Courier _____ Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # 22 Foam Bx _____ Client Cooler _____ Box _____ Other _____

Packing material used Bubble Wrap Foam Plastic Bag _____ None _____ Other _____

COOLANT Wet Ice Blue Ice _____ Dry Ice _____ Water _____ None _____

1 Cooler temperature upon receipt _____ See Multiple Cooler Form

IR GUN # 22 (CF D) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No NA

-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA

-Were tamper/custody seals on the bottle(s) or bottle kits (LIHg/MeHg)? Yes No NA

-Were tamper/custody seals intact and uncompromised? Yes No NA

3 Shippers' packing slip attached to the cooler(s)? Yes No NA

4 Did custody papers accompany the sample(s)? Yes No NA

5 Were the custody papers relinquished & signed in the appropriate place? Yes No NA

6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No NA

7 Did all bottles arrive in good condition (Unbroken)? Yes No NA

8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No NA

9 For each sample, does the COC specify preservatives (N), # of containers (N), and sample type of grab/comp (N)? Yes No NA

10 Were correct bottle(s) used for the test(s) indicated? Yes No NA

11 Sufficient quantity received to perform indicated analyses? Yes No NA

12 Are these work share samples and all listed on the COC? Yes No NA

If yes, Questions 13-17 have been checked at the originating laboratory

13 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC316719

14 Were VOAs on the COC? Yes No NA

15 Were air bubbles >6 mm in any VOA vials? Yes No NA Larger than this

16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No NA

17 Was a LI, Hg or Me Hg trip blank present? Yes No NA

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

Sample(s) _____

20. SAMPLE PRESERVATION _____ were further preserved in the laboratory

Sample(s) _____ were further preserved in the laboratory

Time preserved. _____ Preservative(s) added/Lot number(s) _____

VOA Sample Preservation Date/Time VOAs Frozen _____

Tests that are not checked for pH by Receiving
VOAs
Oil and Grease
TOC

Log in # _____

Eurofins - Canton Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
IC Client 1ox Other	IR GUN #: 22	22	22	Water None
IC Client 1ox Other	IR GUN #: 22	22	22	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None
IC Client 1ox Other	IR GUN #: _____	_____	_____	Water None

DATA VERIFICATION REPORT



March 06, 2024

Kris Hinskey
Arcadis Inc
10559 Citation Ave
Suite 100
Brighton, MI 48116

CADENA project ID: E203631
Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater
Project number: 30167538.402.04
Event Specific Scope of Work References: Sample COC
Laboratory: Eurofins Environment Testing LLC - Cleveland
Laboratory submittal: 200085-1
Sample date: 2024-02-21
Report received by CADENA: 2024-03-06
Initial Data Verification completed by CADENA: 2024-03-06
Number of Samples:2
Sample Matrices:Water
Test Categories:GCMS VOC
Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at <http://clms.cadenaco.com/index.cfm>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 200085-1

Sample Name:	TRIP BLANK_125	MW-126S_022124
Lab Sample ID:	2402000851	2402000852
Sample Date:	2/21/2024	2/21/2024

Analyte	Cas No.	Report		Units	Valid Qualifier	Report		Units	Valid Qualifier	
		Result	Limit			Result	Limit			
GC/MS VOC										
<u>OSW-8260D</u>										
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	ND	1.0	ug/l	---	
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---	
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---	
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	
<u>OSW-8260DSIM</u>										
1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	

Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-200085-1

CADENA Verification Report: 2024-03-06

Analyses Performed By:
Eurofins Cleveland
Barberton, Ohio

Report # 53260R
Review Level: Tier III
Project: 30167538.402.02

DATA REVIEW

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200085-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis	
					VOC	VOC SIM
TRIP BLANK_125	240-200085-1	Water	02/21/2024		X	
MW-126S_022124	240-200085-2	Water	02/21/2024		X	X

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of Quality Assurance or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

DATA REVIEW

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

DATA REVIEW

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable, and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

DATA REVIEW

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times/Preservation		X		X	
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Field Duplicate RPD	X				X
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA REVIEW

VALIDATION PERFORMED BY: Bindu Sree M B

SIGNATURE: 

DATE: March 18, 2024

PEER REVIEW: Andrew Korycinski

DATE: March 26, 2024

**NO CORRECTIONS/QUALIFIERS ADDED
TO SAMPLE ANALYSIS DATA SHEETS**



**CHAIN OF CUSTODY
CORRECTED SAMPLE ANALYSIS DATA
SHEETS**



TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

Client Contact Company Name: Arcadis Address: 28550 Cabot Drive, Suite 500 City/State/Zip: Novi, MI, 48377 Phone: 248-994-2240 Project Name: Ford LTP Off-Site Project Number: 30167538.402.04 PO # 30167538.402.04		Regulatory program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other		Client Project Manager: Kris Hinskey Telephone: 248-994-2240 Em all: kristoffer.hinskey@arcadis.com Sampler Name: Lottie Jay Method of Shipment/Carrier: Shipping/Tracking No:		Site Contact: Christina Weaver Telephone: 248-994-2240 Analysis Turnaround Time: TAT if different from below: <input checked="" type="checkbox"/> 10 day <input type="checkbox"/> 3 weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Lab Contact: Mike DeMonico Telephone: 330-497-9396		TestAmerica Laboratories, Inc. COC No: 1 of 1 COCs For lab use only: Walk-in client Lab sampling Job/SDG No: Sample Specific Notes / Special Instructions:																						
Sample Identification		Sample Date	Sample Time	Matrix					Containers & Preservatives					Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses							Sample Specific Notes / Special Instructions									
				Air	Aqueous	Sediment	Soil	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc	SnO2	Uppres	Other:			1,1-DCE 8260D	o,s-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM							
✓	TRIP BLANK_125	--	--															NG	X	X	X	X	X	X								1 Trip Blank
✓	MW-1265_022124	2/21/24	1405															NG	X	X	X	X	X	X								3 VOAs for 8260D 3 VOAs for 8260D SIM
<p>240-200085 Chain of Custody</p>																																
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown												Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months																				
Special Instructions/QC Requirements & Comments: Sample Address: 34966 Standish St Submit all results through Cadena at jtomalia@cadenaco.com . Cadena #E203631 Level IV Reporting requested.																																
Relinquished by: Lottie Jay				Company: ARCADIS				Date/Time: 2/21/24 1545				Received by: NOVI COLD STORAGE				Company: ARCADIS				Date/Time: 2/21/24 1545												
Relinquished by: [Signature]				Company: ARCADIS				Date/Time: 2/27/24 0855				Received by: [Signature]				Company: EETA				Date/Time: 2/27/24 0855												
Relinquished by: [Signature]				Company: EETA				Date/Time: 2/27/24 Bob				Received in Laboratory by: [Signature]				Company: [Signature]				Date/Time: 2-29-24 8am												

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Client Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - Off Site

Job ID: 240-200085-1

Client Sample ID: TRIP BLANK_125

Lab Sample ID: 240-200085-1

Date Collected: 02/21/24 00:00

Matrix: Water

Date Received: 02/28/24 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/24 19:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/24 19:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/24 19:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/24 19:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/24 19:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/24 19:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		62 - 137		03/01/24 19:15	1
4-Bromofluorobenzene (Surr)	96		56 - 136		03/01/24 19:15	1
Toluene-d8 (Surr)	106		78 - 122		03/01/24 19:15	1
Dibromofluoromethane (Surr)	104		73 - 120		03/01/24 19:15	1

Client Sample ID: MW-126S_022124

Lab Sample ID: 240-200085-2

Date Collected: 02/21/24 14:05

Matrix: Water

Date Received: 02/28/24 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/02/24 01:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 127		03/02/24 01:36	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/24 22:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/24 22:51	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/24 22:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/24 22:51	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/24 22:51	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/24 22:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		62 - 137		03/01/24 22:51	1
4-Bromofluorobenzene (Surr)	98		56 - 136		03/01/24 22:51	1
Toluene-d8 (Surr)	108		78 - 122		03/01/24 22:51	1
Dibromofluoromethane (Surr)	108		73 - 120		03/01/24 22:51	1