

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 6/5/2024 7:42:09 AM

## JOB DESCRIPTION

Ford LTP

## JOB NUMBER

240-205250-1

# Eurofins Cleveland

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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  
Michael DeMonico, Project Manager I  
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# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Method Summary . . . . .	6
Sample Summary . . . . .	7
Detection Summary . . . . .	8
Client Sample Results . . . . .	9
Surrogate Summary . . . . .	12
QC Sample Results . . . . .	13
QC Association Summary . . . . .	15
Lab Chronicle . . . . .	16
Certification Summary . . . . .	17
Chain of Custody . . . . .	18

# Definitions/Glossary

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

Job ID: 240-205250-1

## 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

Job ID: 240-205250-1

**Job ID: 240-205250-1**

**Eurofins Cleveland**

## Job Narrative 240-205250-1

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 5/25/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C.

### GC/MS VOA

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

Job ID: 240-205250-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by 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

Job ID: 240-205250-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-205250-1	TRIP BLANK_97	Water	05/23/24 00:00	05/25/24 08:00
240-205250-2	MW-205S_052324	Water	05/23/24 10:30	05/25/24 08:00
240-205250-3	MW-205_052324	Water	05/23/24 11:55	05/25/24 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

Job ID: 240-205250-1

**Client Sample ID: TRIP BLANK\_97**

**Lab Sample ID: 240-205250-1**

No Detections.

**Client Sample ID: MW-205S\_052324**

**Lab Sample ID: 240-205250-2**

No Detections.

**Client Sample ID: MW-205\_052324**

**Lab Sample ID: 240-205250-3**

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

Job ID: 240-205250-1

**Client Sample ID: TRIP BLANK\_97**

**Lab Sample ID: 240-205250-1**

Date Collected: 05/23/24 00:00

Matrix: Water

Date Received: 05/25/24 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			06/03/24 19:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			06/03/24 19:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			06/03/24 19:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			06/03/24 19:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			06/03/24 19:46	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			06/03/24 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137		06/03/24 19:46	1
4-Bromofluorobenzene (Surr)	84		56 - 136		06/03/24 19:46	1
Toluene-d8 (Surr)	92		78 - 122		06/03/24 19:46	1
Dibromofluoromethane (Surr)	105		73 - 120		06/03/24 19:46	1

# Client Sample Results

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

Job ID: 240-205250-1

**Client Sample ID: MW-205S\_052324**

**Lab Sample ID: 240-205250-2**

Date Collected: 05/23/24 10:30

Matrix: Water

Date Received: 05/25/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			06/03/24 22:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			06/03/24 22:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			06/03/24 22:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			06/03/24 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137		06/03/24 22:04	1
4-Bromofluorobenzene (Surr)	83		56 - 136		06/03/24 22:04	1
Toluene-d8 (Surr)	92		78 - 122		06/03/24 22:04	1
Dibromofluoromethane (Surr)	109		73 - 120		06/03/24 22:04	1

# Client Sample Results

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

Job ID: 240-205250-1

**Client Sample ID: MW-205\_052324**

**Lab Sample ID: 240-205250-3**

Date Collected: 05/23/24 11:55

Matrix: Water

Date Received: 05/25/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			06/03/24 22:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			06/03/24 22:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			06/03/24 22:28	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			06/03/24 22:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137		06/03/24 22:28	1
4-Bromofluorobenzene (Surr)	86		56 - 136		06/03/24 22:28	1
Toluene-d8 (Surr)	96		78 - 122		06/03/24 22:28	1
Dibromofluoromethane (Surr)	113		73 - 120		06/03/24 22:28	1

# Surrogate Summary

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

Job ID: 240-205250-1

## 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)
240-205250-1	TRIP BLANK_97	103	84	92	105
240-205250-2	MW-205S_052324	105	83	92	109
240-205250-3	MW-205_052324	108	86	96	113
240-205255-B-3 MS	Matrix Spike	94	95	98	102
240-205255-E-3 MSD	Matrix Spike Duplicate	90	89	93	96
LCS 240-615275/5	Lab Control Sample	102	101	103	107
MB 240-615275/9	Method Blank	109	93	98	112

### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-205250-1

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

Lab Sample ID: MB 240-615275/9

Matrix: Water

Analysis Batch: 615275

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			06/03/24 18:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			06/03/24 18:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			06/03/24 18:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			06/03/24 18:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			06/03/24 18:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			06/03/24 18:36	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	109		62 - 137		06/03/24 18:36	1
4-Bromofluorobenzene (Surr)	93		56 - 136		06/03/24 18:36	1
Toluene-d8 (Surr)	98		78 - 122		06/03/24 18:36	1
Dibromofluoromethane (Surr)	112		73 - 120		06/03/24 18:36	1

Lab Sample ID: LCS 240-615275/5

Matrix: Water

Analysis Batch: 615275

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	20.0	19.8		ug/L		99	63 - 134
cis-1,2-Dichloroethene	20.0	20.1		ug/L		101	77 - 123
Tetrachloroethene	20.0	19.9		ug/L		100	76 - 123
trans-1,2-Dichloroethene	20.0	19.6		ug/L		98	75 - 124
Trichloroethene	20.0	19.9		ug/L		99	70 - 122
Vinyl chloride	20.0	21.9		ug/L		110	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	102		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	107		73 - 120

Lab Sample ID: 240-205255-B-3 MS

Matrix: Water

Analysis Batch: 615275

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	1.0	U	20.0	20.3		ug/L		102	56 - 135
cis-1,2-Dichloroethene	1.0	U	20.0	20.7		ug/L		104	66 - 128
Tetrachloroethene	1.0	U	20.0	20.1		ug/L		101	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	20.5		ug/L		102	56 - 136
Trichloroethene	1.0	U	20.0	20.1		ug/L		101	61 - 124
Vinyl chloride	1.0	U	20.0	22.7		ug/L		113	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	95		56 - 136
Toluene-d8 (Surr)	98		78 - 122

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# QC Sample Results

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

Job ID: 240-205250-1

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

Lab Sample ID: 240-205255-B-3 MS

Matrix: Water

Analysis Batch: 615275

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	102		73 - 120

Lab Sample ID: 240-205255-E-3 MSD

Matrix: Water

Analysis Batch: 615275

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MSD MSD		Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
1,1-Dichloroethene	1.0	U	20.0	21.5		ug/L		107	56 - 135	6	26	
cis-1,2-Dichloroethene	1.0	U	20.0	20.9		ug/L		105	66 - 128	1	14	
Tetrachloroethene	1.0	U	20.0	20.3		ug/L		102	62 - 131	1	20	
trans-1,2-Dichloroethene	1.0	U	20.0	21.2		ug/L		106	56 - 136	3	15	
Trichloroethene	1.0	U	20.0	20.2		ug/L		101	61 - 124	1	15	
Vinyl chloride	1.0	U	20.0	23.8		ug/L		119	43 - 157	5	24	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	89		56 - 136
Toluene-d8 (Surr)	93		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

# QC Association Summary

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

Job ID: 240-205250-1

## GC/MS VOA

### Analysis Batch: 615275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-205250-1	TRIP BLANK_97	Total/NA	Water	8260D	
240-205250-2	MW-205S_052324	Total/NA	Water	8260D	
240-205250-3	MW-205_052324	Total/NA	Water	8260D	
MB 240-615275/9	Method Blank	Total/NA	Water	8260D	
LCS 240-615275/5	Lab Control Sample	Total/NA	Water	8260D	
240-205255-B-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-205255-E-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	



# Lab Chronicle

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

Job ID: 240-205250-1

**Client Sample ID: TRIP BLANK\_97**

**Lab Sample ID: 240-205250-1**

Date Collected: 05/23/24 00:00

Matrix: Water

Date Received: 05/25/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	615275	AJS	EET CLE	06/03/24 19:46

**Client Sample ID: MW-205S\_052324**

**Lab Sample ID: 240-205250-2**

Date Collected: 05/23/24 10:30

Matrix: Water

Date Received: 05/25/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	615275	AJS	EET CLE	06/03/24 22:04

**Client Sample ID: MW-205\_052324**

**Lab Sample ID: 240-205250-3**

Date Collected: 05/23/24 11:55

Matrix: Water

Date Received: 05/25/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	615275	AJS	EET CLE	06/03/24 22:28

**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

Job ID: 240-205250-1

## Laboratory: Eurofins Cleveland

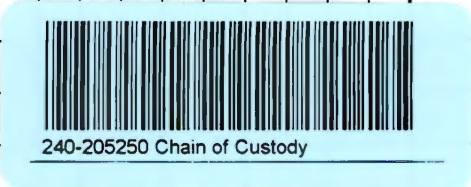
All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	06-30-24
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
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

## Chain of Custody Record

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

<b>Client Contact</b>		<b>Regulatory program:</b> <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other										<b>TestAmerica Laboratories, Inc.</b>													
Company Name: Arcadis		Client Project Manager: Kris Hinskey				Site Contact: Christina Weaver				Lab Contact: Mike DelMonico				COC No:											
Address: 28550 Cabot Drive, Suite 500		Telephone: 248-994-2240				Telephone: 248-994-2240				Telephone: 330-497-9396				1 of 1 COCs											
City/State/Zip: Novi, MI, 48377		Email: kristoffer.hinskey@arcadis.com				<b>Analysis Turnaround Time</b>				<b>Analyses</b>				For lab use only											
Phone: 248-994-2240		Sampler Name: <i>Maryam Hanani</i>				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				<input type="checkbox"/> Filtered Sample (V/N) <input type="checkbox"/> 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				Walk-in client											
Project Name: Ford LTP		Method of Shipment/Carrier:				Sample Specific Notes / Special Instructions:								Lab sampling											
Project Number: 30206169.0401.03		Shipping/Tracking No:												Job/SDG No:											
PO # US3410018772																									
<b>Sample Identification</b>		Sample Date	Sample Time	<b>Matrix</b>					<b>Containers &amp; Preservatives</b>																
		Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH	Unpres	Other:	Filtered Sample (V/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_97		---	---	1					1						NG	X	X	X	X	X	X			1 Trip Blank ✓	
MW-2055_052324		5/23/24	1030	3					3						NG	X	X		X	X			3 VOAs for 8260D MH ✓ 3 VOAs for 8260D SIM ✓		
MW-205_052324		5/23/24	1155	3					3						NG	X	X		X	X			✓		



**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**  
 Return to Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:** *Levan RON*  
 Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728  
 Level IV Reporting requested.

Relinquished by: <i>Maryam Hanani</i>	Company: <i>ARCADIS</i>	Date/Time: <i>5/23/24 1700</i>	Received by: <i>Novi Cold Storage</i>	Company: <i>ARCADIS</i>	Date/Time: <i>5/23/24 1700</i>
Relinquished by: <i>NOVI COLD STORAGE</i>	Company: <i>ARCADIS</i>	Date/Time: <i>5/24/24 1345</i>	Received by: <i>[Signature]</i>	Company: <i>ARCADIS</i>	Date/Time: <i>5/24/24 1345</i>
Relinquished by: <i>[Signature]</i>	Company: <i>ARCADIS</i>	Date/Time: <i>5/24/24 1450</i>	Received in Laboratory by: <i>[Signature]</i>	Company: <i>ARCADIS</i>	Date/Time: <i>5/24/24 1450</i>

*[Signature]* *ETA* *5/24/24 1500* **TAMMY ROYER** *ETA* *5-25-24 800*

Eurofins Cleveland Sample Receipt Form/Narrative  
 Barberport Facility  
 Login # \_\_\_\_\_

Client Arcadis Site Name \_\_\_\_\_  
 Cooler Received on 5.25.24 Opened on 5.25.24  
 FedEx: 1<sup>st</sup> Grd Exp DPS FAS Waypoint Client Drop Off Eurofins Courier Other \_\_\_\_\_  
 Receipt After-hours Drop-off Date/Time \_\_\_\_\_ Storage Location \_\_\_\_\_

Eurofins Cooler # EC ~~FOAM BOX~~ 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 # 18 (CF 8.0 °C) Observed Cooler Temp. 3.3 °C Corrected Cooler Temp. 3.3 °C  
 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1  
 -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  
 4 Did custody papers accompany the sample(s)? Yes No  
 5 Were the custody papers relinquished & signed in the appropriate place? Yes No  
 6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No  
 7 Did all bottles arrive in good condition (Unbroken)? Yes No  
 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No  
 9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No  
 10 Were correct bottle(s) used for the test(s) indicated? Yes No  
 11 Sufficient quantity received to perform indicated analyses? Yes No  
 12 Are these work share samples and all listed on the COC? Yes No  
 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# HC339814  
 14 Were VOAs on the COC? Yes No  
 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 # covered Yes No  
 17 Was a LI Hg or Me Hg trip blank present? Yes No

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

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  
 Sample(s) \_\_\_\_\_ 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)

20 SAMPLE PRESERVATION  
 Sample(s) \_\_\_\_\_ were further preserved in the laboratory  
 Time preserved. \_\_\_\_\_ Preservative(s) added/Lot number(s) \_\_\_\_\_  
 VOA Sample Preservation - Date/Time VOAs Frozen. \_\_\_\_\_



5/25/2024

# Login Container Summary Report

240-205250

6/5/2024

## Temperature readings

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservation Temp</u>	<u>Preservation Added</u>	<u>Preservation Lot Number</u>
TRIP BLANK_97	240-205250-A-1	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-205S_052324	240-205250-A-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-205S_052324	240-205250-B-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-205S_052324	240-205250-C-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-205_052324	240-205250-A-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-205_052324	240-205250-B-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-205_052324	240-205250-C-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____

# DATA VERIFICATION REPORT



June 05, 2024

Megan Meckley  
Arcadis  
28550 Cabot Drive  
Suite 500  
Novi, MI US 48377

CADENA project ID: E203728  
Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil  
Project number: 30206169.401.03  
Event Specific Scope of Work References: Sample COC  
Laboratory: Eurofins Environment Testing LLC - Cleveland  
Laboratory submittal: 205250-1  
Sample date: 2024-05-23  
Report received by CADENA: 2024-06-05  
Initial Data Verification completed by CADENA: 2024-06-05  
Number of Samples:3  
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 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:** E203728

**Laboratory:** Eurofins Environment Testing LLC - Cleveland

**Laboratory Submittal:** 205250-1

<b>Sample Name:</b> TRIP BLANK_97	MW-205S_052324	MW-205_052324
<b>Lab Sample ID:</b> 2402052501	2402052502	2402052503
<b>Sample Date:</b> 5/23/2024	5/23/2024	5/23/2024

Analyte	Cas No.	Report			Valid			Report			Valid		
		Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier

**GC/MS VOC**

OSW-8260D

1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---								
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---								
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	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	---	ND	1.0	ug/l	---

# Ford Motor Company – Livonia Transmission Project

## Data Review

### Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-205250-1

CADENA Verification Report: 2024-06-05

Analyses Performed By:  
Eurofins Cleveland  
Barberton, Ohio

Report # 54685R  
Review Level: Tier III  
Project: 30167538.402.02



## DATA REVIEW

### SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-205250-1 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
TRIP BLANK_97	240-205250-1	Water	05/23/2024		X
MW-205S_052324	240-205250-2	Water	05/23/2024		X
MW-205_052324	240-205250-3	Water	05/23/2024		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. 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	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	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
<b>GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)</b>					
<b>Tier II Validation</b>					
Holding times/Preservation		X		X	
<b>Tier III Validation</b>					
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: 

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DATE: July 1, 2024

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PEER REVIEW: Andrew Korycinski

DATE: July 1, 2024

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





**CHAIN OF CUSTODY**

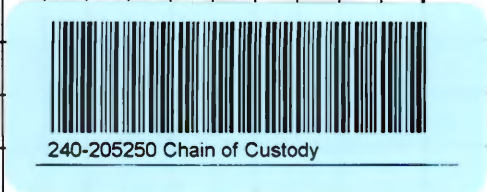
**CORRECTED SAMPLE ANALYSIS DATA  
SHEETS**



## Chain of Custody Record

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

<b>Client Contact</b>				<b>Regulatory program:</b> <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other												<b>TestAmerica Laboratories, Inc.</b>															
Company Name: Arcadis				Client Project Manager: Kris Hinskey				Site Contact: Christina Weaver				Lab Contact: Mike DelMonico				COC No:															
Address: 28550 Cabot Drive, Suite 500				Telephone: 248-994-2240				Telephone: 248-994-2240				Telephone: 330-497-9396				1 of 1 COCs															
City/State/Zip: Novi, MI, 48377				Email: kristoffer.hinskey@arcadis.com				<b>Analysis Turnaround Time</b>				<b>Analyses</b>				For lab use only															
Phone: 248-994-2240				Sampler Name: Maryam Hanani				TAT if different from below 10 day <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				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				Walk-in client															
Project Name: Ford LTP				Method of Shipment/Carrier:				Sample Specific Notes / Special Instructions:																							
Project Number: 30206169.0401.03				Shipping/Tracking No:																											
PO # US3410018772																															
Sample Identification				Sample Date	Sample Time	Matrix					Containers & Preservatives																				
						Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:														
TRIP BLANK_97				---	---	1						1						NG	X	X	X	X	X							1 Trip Blank	
MW-2058_052324				5/23/24	1030	3						3						NG	X	X		X	X							3 VOAs for 8260D 3 VOAs for 8260D SIM	
MW-205_052324				5/23/24	1155	3						3						NG	X	X		X	X								



**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  
**Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)**  
 Return to Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

**Special Instructions/QC Requirements & Comments:** Levan RON  
 Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728  
 Level IV Reporting requested.

Relinquished by: <i>Maryam Hanani</i>	Company: Arcadis	Date/Time: 5/23/24 1700	Received by: <i>Non Cold Storage</i>	Company: Arcadis	Date/Time: 5/23/24 1700
Relinquished by: <i>NOVI COLD STORAGE</i>	Company: ARCADIS	Date/Time: 5/24/24 1345	Received by: <i>[Signature]</i>	Company: ARCADIS	Date/Time: 5/24/24 1345
Relinquished by: <i>[Signature]</i>	Company: ARCADIS	Date/Time: 5/24/24 1450	Received in Laboratory by: <i>[Signature]</i>	Company: EETA	Date/Time: 5/24/24 1450

EETA 5/24/24 1500 TAMMY ROYER EETPC 5-25-24 800

# Client Sample Results

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

Job ID: 240-205250-1

**Client Sample ID: TRIP BLANK\_97**

**Lab Sample ID: 240-205250-1**

Date Collected: 05/23/24 00:00

Matrix: Water

Date Received: 05/25/24 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			06/03/24 19:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			06/03/24 19:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			06/03/24 19:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			06/03/24 19:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			06/03/24 19:46	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			06/03/24 19:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137		06/03/24 19:46	1
4-Bromofluorobenzene (Surr)	84		56 - 136		06/03/24 19:46	1
Toluene-d8 (Surr)	92		78 - 122		06/03/24 19:46	1
Dibromofluoromethane (Surr)	105		73 - 120		06/03/24 19:46	1

**Client Sample ID: MW-205S\_052324**

**Lab Sample ID: 240-205250-2**

Date Collected: 05/23/24 10:30

Matrix: Water

Date Received: 05/25/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			06/03/24 22:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			06/03/24 22:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			06/03/24 22:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			06/03/24 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137		06/03/24 22:04	1
4-Bromofluorobenzene (Surr)	83		56 - 136		06/03/24 22:04	1
Toluene-d8 (Surr)	92		78 - 122		06/03/24 22:04	1
Dibromofluoromethane (Surr)	109		73 - 120		06/03/24 22:04	1

**Client Sample ID: MW-205\_052324**

**Lab Sample ID: 240-205250-3**

Date Collected: 05/23/24 11:55

Matrix: Water

Date Received: 05/25/24 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			06/03/24 22:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			06/03/24 22:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			06/03/24 22:28	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			06/03/24 22:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137		06/03/24 22:28	1
4-Bromofluorobenzene (Surr)	86		56 - 136		06/03/24 22:28	1
Toluene-d8 (Surr)	96		78 - 122		06/03/24 22:28	1
Dibromofluoromethane (Surr)	113		73 - 120		06/03/24 22:28	1