# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Ms. Megan Meckley Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 8/14/2024 5:57:11 PM

# **JOB DESCRIPTION**

Ford LTP

# **JOB NUMBER**

240-208958-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



# **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 DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: Arcadis U.S., Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-208958-1

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# **Definitions/Glossary**

Client: Arcadis U.S., Inc. Job ID: 240-208958-1 Project/Site: Ford LTP

**Qualifiers** 

**GC/MS VOA** 

Qualifier **Qualifier Description** Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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.

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** 

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCI MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

**PRES** Presumptive QC **Quality Control** 

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ** 

**TNTC** Too Numerous To Count

# **Case Narrative**

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

Job ID: 240-208958-1 Eurofins Cleveland

Job Narrative 240-208958-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 8/7/2024 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 1.4°C.

#### GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-623147 was outside the method criteria for the following analyte(s): Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

**Eurofins Cleveland** 

Job ID: 240-208958-1

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# **Method Summary**

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208958-1

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

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# **Sample Summary**

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208958-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-208958-1	TRIP BLANK_17	Water	08/05/24 00:00	08/07/24 08:00
240-208958-2	MW-115S_080524	Water	08/05/24 12:35	08/07/24 08:00

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# **Detection Summary**

Client: Arcadis U.S., Inc.

Job ID: 240-208958-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_17 Lab Sample ID: 240-208958-1

No Detections.

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Vinyl chloride	0.87 J	1.0	0.45 ug/L	1	8260D	Total/NA

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# **Client Sample Results**

Client: Arcadis U.S., Inc. Job ID: 240-208958-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_17

Date Received: 08/07/24 08:00

Lab Sample ID: 240-208958-1 Date Collected: 08/05/24 00:00

**Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/13/24 09:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/13/24 09:28	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/13/24 09:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/13/24 09:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/13/24 09:28	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/13/24 09:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			_		08/13/24 09:28	1
4-Bromofluorobenzene (Surr)	94		56 <sub>-</sub> 136					08/13/24 09:28	1
Toluene-d8 (Surr)	95		78 - 122					08/13/24 09:28	1
Dibromofluoromethane (Surr)	84		73 - 120					08/13/24 09:28	1

# **Client Sample Results**

Client: Arcadis U.S., Inc. Job ID: 240-208958-1

Project/Site: Ford LTP

Client Sample ID: MW-115S\_080524

Date Collected: 08/05/24 12:35

Lab Sample ID: 240-208958-2 Matrix: Water

Date Received: 08/07/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/12/24 11:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		08/12/24 11:10	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/13/24 13:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/13/24 13:25	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/13/24 13:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/13/24 13:25	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/13/24 13:25	1
Vinyl chloride	0.87	J	1.0	0.45	ug/L			08/13/24 13:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		08/13/24 13:25	1
4-Bromofluorobenzene (Surr)	104		56 <sub>-</sub> 136					08/13/24 13:25	1
Toluene-d8 (Surr)	103		78 - 122					08/13/24 13:25	1
Dibromofluoromethane (Surr)	92		73 - 120					08/13/24 13:25	

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# **Surrogate Summary**

Client: Arcadis U.S., Inc.

Job ID: 240-208958-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

_ 				Percent Sui	rogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-208956-A-4 MS	Matrix Spike	101	109	98	93
240-208956-A-4 MSD	Matrix Spike Duplicate	112	113	102	98
240-208958-1	TRIP BLANK_17	105	94	95	84
240-208958-2	MW-115S_080524	115	104	103	92
LCS 240-623147/5	Lab Control Sample	110	110	99	100
MB 240-623147/11	Method Blank	111	97	97	89
Cumpanta Lamand					

# 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)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-208958-2	MW-115S_080524	106	
240-208970-E-3 MS	Matrix Spike	110	
240-208970-E-3 MSD	Matrix Spike Duplicate	108	
LCS 240-622992/4	Lab Control Sample	103	
MB 240-622992/7	Method Blank	101	
Surrogate Legend			

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

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Client: Arcadis U.S., Inc. Job ID: 240-208958-1

Project/Site: Ford LTP

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

Lab Sample ID: MB 240-623147/11

Analysis Batch: 623147

**Matrix: Water** 

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/13/24 07:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/13/24 07:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/13/24 07:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/13/24 07:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/13/24 07:05	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/13/24 07:05	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 08/13/24 07:05 111 4-Bromofluorobenzene (Surr) 97 56 - 136 08/13/24 07:05 Toluene-d8 (Surr) 97 78 - 122 08/13/24 07:05 Dibromofluoromethane (Surr) 89 73 - 120 08/13/24 07:05

Lab Sample ID: LCS 240-623147/5

**Matrix: Water** 

Analysis Batch: 623147

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	50.0	37.5		ug/L		75	63 - 134	
cis-1,2-Dichloroethene	50.0	43.5		ug/L		87	77 - 123	
Tetrachloroethene	50.0	43.3		ug/L		87	76 - 123	
trans-1,2-Dichloroethene	50.0	40.1		ug/L		80	75 - 124	
Trichloroethene	50.0	43.5		ug/L		87	70 - 122	
Vinyl chloride	50.0	46.4		ug/L		93	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 110 62 - 137 4-Bromofluorobenzene (Surr) 56 - 136 110 Toluene-d8 (Surr) 99 78 - 122 73 - 120 Dibromofluoromethane (Surr) 100

Analysis Batch: 623147

Lab Sample ID: 240-208956-A-4 MS Client Sample ID: Matrix Spike **Matrix: Water** 

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	50.0	34.2		ug/L		68	56 - 135	
cis-1,2-Dichloroethene	1.0	U	50.0	42.3		ug/L		85	66 - 128	
Tetrachloroethene	1.0	U	50.0	40.9		ug/L		82	62 - 131	
trans-1,2-Dichloroethene	1.0	U	50.0	38.0		ug/L		76	56 - 136	
Trichloroethene	1.0	U	50.0	40.1		ug/L		80	61 - 124	
Vinyl chloride	1.0	U	50.0	41.9		ug/L		84	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		62 - 137
4-Bromofluorobenzene (Surr)	109		56 - 136
Toluene-d8 (Surr)	98		78 - 122

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Prep Type: Total/NA

Client: Arcadis U.S., Inc. Job ID: 240-208958-1 Project/Site: Ford LTP

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

MS MS

Lab Sample ID: 240-208956-A-4 MS

**Matrix: Water** 

Analysis Batch: 623147

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 93 73 - 120

Lab Sample ID: 240-208956-A-4 MSD

**Matrix: Water** 

Analysis Batch: 623147

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

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	50.0	34.5		ug/L		69	56 - 135	1	26
cis-1,2-Dichloroethene	1.0	U	50.0	42.7		ug/L		85	66 - 128	1	14
Tetrachloroethene	1.0	U	50.0	40.3		ug/L		81	62 - 131	2	20
trans-1,2-Dichloroethene	1.0	U	50.0	38.5		ug/L		77	56 - 136	1	15
Trichloroethene	1.0	U	50.0	40.5		ug/L		81	61 - 124	1	15
Vinyl chloride	1.0	U	50.0	43.7		ug/L		87	43 - 157	4	24

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 112 62 - 137 4-Bromofluorobenzene (Surr) 113 56 - 136 Toluene-d8 (Surr) 102 78 - 122 Dibromofluoromethane (Surr) 98 73 - 120

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

MR MR

Lab Sample ID: MB 240-622992/7

**Matrix: Water** 

Analysis Batch: 622992

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Limits

75 - 121

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 08/12/24 10:23 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 101 68 - 127 08/12/24 10:23

Lab Sample ID: LCS 240-622992/4

Analyte

1,4-Dioxane

**Matrix: Water** Prep Type: Total/NA Analysis Batch: 622992 Spike LCS LCS %Rec

Result

9.30

Qualifier

Unit

ug/L

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

103

Lab Sample ID: 240-208970-E-3 MS

**Matrix: Water** 

Analysis Batch: 622992

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

D

%Rec

93

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 8.89 ug/L 89 20 - 180

Added

10.0

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# **QC Sample Results**

Client: Arcadis U.S., Inc. Job ID: 240-208958-1

Project/Site: Ford LTP Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

%Recovery Qualifier

108

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1.2-Dichloroethane-d4 (Surr)			68 - 127

1,2-Dichloroethane-d4 (Surr)	110
 Lab Sample ID: 240-208970-E-	-3 MSD

**Matrix: Water** 

Analysis Batch: 622992

1,2-Dichloroethane-d4 (Surr)

Surrogate

	Sample	Sample	Spike	MSD	MSD				%
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Liı
1,4-Dioxane	2.0	U	10.0	9.27		ug/L		93	20
	MSD	MSD							

Limits

68 - 127

**Client Sample ID: Matrix Spike Duplicate** 

**Prep Type: Total/NA** 

RPD %Rec imits RPD Limit 20 - 180

# **QC Association Summary**

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208958-1

# **GC/MS VOA**

# Analysis Batch: 622992

<b>Lab Sample ID</b> 240-208958-2	Client Sample ID MW-115S_080524	Prep Type  Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-622992/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-622992/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-208970-E-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-208970-E-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

# Analysis Batch: 623147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208958-1	TRIP BLANK_17	Total/NA	Water	8260D	<u> </u>
240-208958-2	MW-115S_080524	Total/NA	Water	8260D	
MB 240-623147/11	Method Blank	Total/NA	Water	8260D	
LCS 240-623147/5	Lab Control Sample	Total/NA	Water	8260D	
240-208956-A-4 MS	Matrix Spike	Total/NA	Water	8260D	
240-208956-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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# **Lab Chronicle**

Client: Arcadis U.S., Inc. Job ID: 240-208958-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_17

Lab Sample ID: 240-208958-1 Date Collected: 08/05/24 00:00

Matrix: Water

Date Received: 08/07/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	623147	TJL2	EET CLE	08/13/24 09:28

Client Sample ID: MW-115S\_080524 Lab Sample ID: 240-208958-2

Date Collected: 08/05/24 12:35 Matrix: Water

Date Received: 08/07/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	623147	TJL2	EET CLE	08/13/24 13:25
Total/NA	Analysis	8260D SIM		1	622992	MS	EET CLE	08/12/24 11:10

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: 240-208958-1

# **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	08-31-25
lowa	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	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-28-25
Pennsylvania	NELAP	68-00340	08-31-25
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

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# **Chain of Custody Record**

MICHIGAN 190

<u>TestAmerica</u>

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

Client Contact	Regulat	ory program:		۲	DW		I	NPDI	ES		R	CRA		_ O	ther						_					
Company Name: Arcadis	Client Project	Manager: Kris	Hinsk	ey			Site (	Conta	ict: C	Chris	stina V	Veave	r	_	-	Lat	Cont	net: M	ike De	Monic	:0					TestAmerica Laboratories, In COC No:
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240					Telephone: 248-994-2240								Telephone: 330-497-9396							_				
City/State/Zip: Novi, MI, 48377														_	_	1	•								1 of 1 COCs	
Phone: 248-994-2240	Email: kristoff	Email: kristoffer.hinskey@arcadis.com					Analysis Turnaround Time							Analyses										For lab use only		
Project Name: Ford LTP	Sampler Name	_					TAT	if diffe	rent fre		dow 3 week	. L	$\dashv$													Walk-in client
		Method of Shipment/Carrier				10	day		9	2 week	i.s							1				Lab sampling				
Project Number: 30206169.0401.03	Method of Ship									l week 2 days			2 4			9			۾	SIN						
PO # US3410018772	Shipping/Track	king No:									l day			ple (Y/N)	5	8260D	E 826			9 8260	8260D					Job/SDG No
					Pilos	ber:	H2S04	_	Т	T	NaoH NooH	Other:		Filtered Sam	Composition C Crabin	cis-1.2-DCE		PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM		:			Sample Specific Notes / Special Instructions:
Sample Identification	Sample Date	Sample Time	Air	Aque Sedia	3	ŏ	Ξ	=	≝	ž į	1 ž :	5   8	- 1	2 0	5 -	: iš	Ĕ	1 2	۱۶	3	=					
TRIP BLANK_ 17				1					1				ı	NG	3 >	( X	X	X	X	X						1 Trip Blank
MW-1155_080524	815124	1235		6					٩				Į	p) (	5)	X X	( X	X	. ×	X	X					3 VOAs for 8260D 3 VOAs for 8260D SIM
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Possible Hazard Identification	1	<u> </u>	1			L	S						be ass							than 1						
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Submit all results through Cadena at jtomalia@cadenacc	070 BOS	TON TO	5+	S <del>\</del> .																						
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VOA Sample Preservation - Date/Time VOAs Frozen
Sample(s)were further preserved in the laboratory Time preservedPreservative(s) added/Lot number(s):were further preserved in the laboratory
20. SAMPLE PRESERVATION
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)
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Concerning
Contacted PM Date by via Verbal Voice Mail Other
13 Were all preserved sample(s) at the correct pH upon receipt?  14 Were VOAs on the COC?  15 Were air bubbles >6 mm in any VOA vials?  16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # NO NO Yes NO YE
11 Sufficient quantity received to perform indicated analyses?  12 Are these work share samples and all listed on the COC?  Yes (No)  Yes (No)
Could all bottle labels (ID/Date/Time) be reconciled with the COC?  For each sample, does the COC specify preservatives (VAN), # of containers (VAN), and the correct bottle(s) used for the test(s) indicated?
5
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?  -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?  -Were tamper/custody seals into the cooler(s) or bottle kits (LLHg/MeHg)?  -Were tamper/custody seals into the cooler(s) signed & dated?  -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?  -Were tamper/custody seals into the cooler(s)? If Yes Quantity Yes No NA  -Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes No NA  -Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes No NA  -Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes No NA  -Were tamper/custody seals on the outside of the cooler(s) signed & dated?  -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?  -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?
+15 KM
Bag Water
After-hours Drop-off Date/Time
Cooler Received on 8/7/24 Opened on 8/1/29  FedEx, 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other
Site Name
Euroffas — Cleveland Sample Receipt Form/Narrative Login # : Login # : Barberton Facility

Page 19 of 20

Temperature readings

024

# Login Container Summary Report

240-208958

rogiii container oum

MW-115S_080524	MW-115S_080524	MW-115S_080524	MW-115S_080524	MW-115S_080524	MW-115S_080524	TRIP BLANK_17	Client Sample ID
240-208958-F-2	240-208958-E-2	240-208958-D-2	240-208958-C-2	240-208958-B-2	240-208958-A-2	240-208958-A-1	<u>Lab ID</u>
Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Container Type
						The state of the s	Container Preservation Preservation  pH Temp Added Lot Number

Page 20 of 20

Page 1 of 1

# DATA VERIFICATION REPORT



August 15, 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: 30206169.0401.04\_WA-02

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 208958-1 Sample date: 2024-08-05

Report received by CADENA: 2024-08-14

Initial Data Verification completed by CADENA: 2024-08-15

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.

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch CCV response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

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.
В	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 contaminates) 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.
Е	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 contaminates) 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: 208958-1

		Sample Name:	TRIP BL	ANK_17			MW-115	5S_0805	24	
		Lab Sample ID:	240208	9581			240208	9582		
		Sample Date:	8/5/202	4			8/5/202	4		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>0D</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		0.87	1.0	ug/l	J
OSW-8260	<u>ODSIM</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 # 240-208958-1

CADENA Verification Report: 2024-08-15

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 55501R Review Level: Tier III Project: 30206169.0401.02

# **SUMMARY**

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-208958-1 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	Parent Sample	Analysis			
Sample ID	Labib	Wallix	Collection Date	Farent Sample	VOC	VOC SIM		
TRIP BLANK_17	240-208958-1	Water	08/05/2024		X			
MW-115S_080524	240-208958-2	Water	08/05/2024		Х	Х		

# **ANALYTICAL DATA PACKAGE DOCUMENTATION**

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

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

#### 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.

# **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 calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compound	Criteria
TRIP BLANK_17 MW-115S_080524	Continuing Calibration Verification %D	Vinyl chloride	-26.0%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
	DDE -0.05	Non-detect	R
	RRF <0.05	Detect	J
Initial and Continuing Calibration	RRF <0.01 <sup>1</sup>	Non-detect	R
Campidatori	KKF <0.01	Detect	J
	RRF >0.05 or RRF >0.01 <sup>1</sup>	Non-detect	No Action

Initial/Continuing	Criteria	Sample Result	Qualification
		Detect	
	%RSD > 20% or a correlation coefficient <0.99	Non-detect	UJ
Initial Calibration	%RSD > 20% of a correlation coefficient <0.99	Detect	J
Initial Calibration	0/ DOD 000/	Non-detect	R
	%RSD > 90%	Detect	J
	OVD COOK (in any and in any attitute)	Non-detect	UJ
	%D >20% (increase in sensitivity)	Detect	J
Operation via a Optila antique	0/D 000/ (dagged in aggrithmit.)	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	0/D 000/ // // // // // // // // // // // /	Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

# Note:

# 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.

# 6. Compound Identification

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

All identified compounds met the specified criteria.

# 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.

<sup>&</sup>lt;sup>1</sup>RRF of 0.01 only applies to compounds which are typically poor responding compounds

# **DATA VALIDATION CHECKLIST FOR VOCs**

Rep	orted			Not Required
No	Yes	No	Yes	- Required
C/MS)				
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х	Х		
	Х		Х	
	Х		Х	
X				Х
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	X		X	
	Х		Х	
	No C/MS)	X  X  X  X  X  X  X  X  X  X  X  X  X	Reported Acce No Yes No  C/MS)  X  X  X  X  X  X  X  X  X  X  X  X  X	No   Yes   No   Yes

# Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bindu Sree M B

SIGNATURE: BAShims

DATE: September 04, 2024

PEER REVIEW: Andrew Korycinski

DATE: September 7, 2024

# CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



# **Chain of Custody Record**



TestA	merica Labora	tory location:	Brighte	on — 104	148 Citati	on Driv	e, St	uite 2	00 /	Bright	on, MI	48116	/ 810	)-229-	2763									THE LEADER	IN ENVIRONME	NTAL TESTI	NG
Client Contact	Regulat	ory program:		_ D	w	-	NPD	ES		R	CRA	-	Oth	er [						_							
Company Name: Arcadis	677 18 111					Ic:	0 -		- ·								. 5411								erica Labor	tories, In	ic.
Address: 28550 Cabot Drive, Suite 500	Client Project N	danager: Kris l	Hinskey			Site	Cont	act: C	hrus	tina V	Venver				Lab Contact: Mike DelMonico						COC No	:					
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City/State/Zip: Novi, MI, 48377	Email: kristoff	er.hinskey@arc	adis.co	m		1	(nal)	ysis T	urna	round	Time		1		Analyses							For lab ta		COCs	-		
Phone: 248-994-2240																											
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		Lothe Jay 10 day 2 weeks													Lab samp	Lab sampling		$\Box$									
Project Number: 30206169.0401.03	Method of Ship	ment/Carrier/				1	1 week 2 days						8			۵	SIM							4			
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				Matri	x		Cont	Lainer	s & P	reserv	atives	III III	Ĩ	1,1-DCE 8260D	CE	Trans-1,2-DCE	ę	00	Vinyl Chloride	ane (							4
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Sample Identification	Sample Date	Sample Time	<del> </del>	Sedimes	Solid Other:	H2S04	HNO3	Ξ	NaOH	HOW:	Olher	Filtered Sa	Ö	= =	cis-1	Tran	B	TCE	Viny	1,4-[				s	pecial Instru	tions:	-
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# **Client Sample Results**

Client: Arcadis U.S., Inc. Job ID: 240-208958-1 Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_17

Lab Sample ID: 240-208958-1

Date Collected: 08/05/24 00:00 **Matrix: Water** Date Received: 08/07/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/13/24 09:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/13/24 09:28	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/13/24 09:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/13/24 09:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/13/24 09:28	1
Vinyl chloride	1.0	MOJ	1.0	0.45	ug/L			08/13/24 09:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			_		08/13/24 09:28	1
4-Bromofluorobenzene (Surr)	94		56 <sub>-</sub> 136					08/13/24 09:28	1
Toluene-d8 (Surr)	95		78 - 122					08/13/24 09:28	1
Dibromofluoromethane (Surr)	84		73 - 120					08/13/24 09:28	1

Client Sample ID: MW-115S\_080524 Lab Sample ID: 240-208958-2

Date Collected: 08/05/24 12:35 Date Received: 08/07/24 08:00

Method: SW846 8260D SIM - V	olatile Organic C	ompounds	(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			08/12/24 11:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106	-	68 - 127			_		08/12/24 11:10	1

1,2-Dichloroethane-d4 (Surr)	106		68 - 127					08/12/24 11:10	1
Method: SW846 8260D - Volatile	Organic Comp	ounds by G	SC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/13/24 13:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/13/24 13:25	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/13/24 13:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/13/24 13:25	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/13/24 13:25	1
Vinyl chloride	0.87	J	1.0	0.45	ug/L			08/13/24 13:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		62 - 137			_		08/13/24 13:25	1

Surrogate	70Necovery	Qualifier	Lillits	rrepareu	Allalyzeu	DII Fac	
1,2-Dichloroethane-d4 (Surr)	115		62 - 137		08/13/24 13:25	1	
4-Bromofluorobenzene (Surr)	104		56 - 136		08/13/24 13:25	1	
Toluene-d8 (Surr)	103		78 - 122		08/13/24 13:25	1	
Dibromofluoromethane (Surr)	92		73 - 120		08/13/24 13:25	1	

**Matrix: Water**