PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 8/11/2025 10:40:35 PM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-230308-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

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 Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)966-9783 Client: Arcadis US Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-230308-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-230308-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

MPN

MQL

NC

ND

NEG POS

PQL

PRES

QC

RER RL

RPD TEF

TEQ

TNTC

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

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

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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
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)

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Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-230308-1 Eurofins Cleveland

Job Narrative 240-230308-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 8/7/2025 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 2.3°C.

GC/MS VOA

Method 8260D: The MSD for batch 667040 was analyzed outside of the tune time, due to an instrument fault. This is a batch QC sample; therefore, the data have been reported for the generic MS/MSD only.

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

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Job ID: 240-230308-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-230308-1

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 US Inc.

Project/Site: Ford LTP

Job ID: 240-230308-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-230308-1	TRIP BLANK_27	Water	08/04/25 00:00	08/07/25 08:00	Michigan
240-230308-2	MW-86_080425	Water	08/04/25 13:20	08/07/25 08:00	Michigan
240-230308-3	MW-86S_080425	Water	08/04/25 15:20	08/07/25 08:00	Michigan

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Detection Summary

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_27

No Detections.

Client Sample ID: MW-86_080425

No Detections.

Client Sample ID: MW-86S_080425

Lab Sample ID: 240-230308-2

Lab Sample ID: 240-230308-3

Job ID: 240-230308-1

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Client: Arcadis US Inc.

No Detections.

Client: Arcadis US Inc. Job ID: 240-230308-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_27

Lab Sample ID: 240-230308-1 Date Collected: 08/04/25 00:00

Matrix: Water

Date Received: 08/07/25 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			08/09/25 13:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/09/25 13:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/09/25 13:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/09/25 13:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/09/25 13:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/09/25 13:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			_		08/09/25 13:32	1
4-Bromofluorobenzene (Surr)	102		56 ₋ 136					08/09/25 13:32	1
Toluene-d8 (Surr)	106		78 - 122					08/09/25 13:32	1
Dibromofluoromethane (Surr)	105		73 - 120					08/09/25 13:32	1

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Client: Arcadis US Inc. Job ID: 240-230308-1

Project/Site: Ford LTP

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-86_080425

Date Collected: 08/04/25 13:20 Date Received: 08/07/25 08:00 Lab Sample ID: 240-230308-2

Matrix: Water

08/09/25 13:57

08/09/25 13:57

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			08/08/25 17:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		68 - 127			-		08/08/25 17:15	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			08/09/25 13:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/09/25 13:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/09/25 13:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/09/25 13:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/09/25 13:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/09/25 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			-		08/09/25 13:57	1
4-Bromofluorobenzene (Surr)	96		56 ₋ 136					08/09/25 13:57	1

78 - 122

73 - 120

107

103

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Client: Arcadis US Inc. Job ID: 240-230308-1

Project/Site: Ford LTP

Client Sample ID: MW-86S_080425

Date Collected: 08/04/25 15:20
Date Received: 08/07/25 08:00

Matrix: Water

Lab Sample ID: 240-230308-3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/08/25 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			68 - 127			_		08/08/25 17:38	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/09/25 14:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/09/25 14:23	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/09/25 14:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/09/25 14:23	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/09/25 14:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/09/25 14:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137					08/09/25 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137		08/09/25 14:23	1
4-Bromofluorobenzene (Surr)	94		56 - 136		08/09/25 14:23	1
Toluene-d8 (Surr)	102		78 - 122		08/09/25 14:23	1
Dibromofluoromethane (Surr)	101		73 _ 120		08/09/25 14:23	1

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Surrogate Summary

Client: Arcadis US Inc. Job ID: 240-230308-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-230274-B-5 MS	Matrix Spike	97	103	101	96
240-230274-B-5 MSD	Matrix Spike Duplicate	97	104	105	100
240-230308-1	TRIP BLANK_27	106	102	106	105
240-230308-2	MW-86_080425	105	96	107	103
240-230308-3	MW-86S_080425	102	94	102	101
LCS 240-667040/6	Lab Control Sample	100	105	107	100
MB 240-667040/10	Method Blank	108	99	107	108

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)

Prep Type: Total/NA **Matrix: Water**

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-230308-2	MW-86_080425	101	
240-230308-2 MS	MW-86_080425	104	
240-230308-2 MSD	MW-86_080425	102	
240-230308-3	MW-86S_080425	101	
LCS 240-666990/5	Lab Control Sample	97	
MB 240-666990/7	Method Blank	98	

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

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Client: Arcadis US Inc. Job ID: 240-230308-1

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

Lab Sample ID: MB 240-667040/10

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 667040

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			08/09/25 13:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/09/25 13:06	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/09/25 13:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/09/25 13:06	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/09/25 13:06	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/09/25 13:06	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 08/09/25 13:06 108 4-Bromofluorobenzene (Surr) 99 56 - 136 08/09/25 13:06 Toluene-d8 (Surr) 107 78 - 122 08/09/25 13:06 Dibromofluoromethane (Surr) 108 73 - 120 08/09/25 13:06

Lab Sample ID: LCS 240-667040/6

Matrix: Water

Analysis Batch: 667040

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	20.0	21.3		ug/L		106	63 - 134	
cis-1,2-Dichloroethene	20.0	19.9		ug/L		100	77 - 123	
Tetrachloroethene	20.0	22.3		ug/L		112	76 - 123	
trans-1,2-Dichloroethene	20.0	19.7		ug/L		98	75 - 124	
Trichloroethene	20.0	20.0		ug/L		100	70 - 122	
Vinyl chloride	20.0	20.7		ug/L		103	60 - 144	

	LCS LCS								
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	100		62 - 137						
4-Bromofluorobenzene (Surr)	105		56 - 136						
Toluene-d8 (Surr)	107		78 - 122						
Dibromofluoromethane (Surr)	100		73 - 120						

Analysis Batch: 667040

Lab Sample ID: 240-230274-B-5 MS	Client Sample ID: Matrix Spike
Matrix: Water	Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Trichloroethene	1.0	U	20.0	19.3		ug/L		97	61 - 124	
Vinyl chloride	1.0	U F1	20.0	20.3		ug/L		102	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	103		56 ₋ 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

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Client: Arcadis US Inc. Job ID: 240-230308-1 Project/Site: Ford LTP

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

Lab Sample ID: 240-230274-B-5 MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 667040

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Trichloroethene	1.0	U	20.0	19.2		ug/L		96	61 - 124	1	15
Vinyl chloride	1.0	U F1	160	20.5	F1	ug/L		13	43 - 157	1	24
	MSD	MSD									

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	104		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

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

Lab Sample ID: MB 240-666990/7

Matrix: Water

Analysis Batch: 666000

Analysis Batch: 666990									
	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/08/25 15:18	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		68 - 127			_		08/08/25 15:18	1

Lab Sample ID: LCS 240-666990/5 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 666990

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane		10.0	8.32		ug/L		83	75 - 121	

LCS LCS

%Recovery Qualifier Limits Surrogate 1,2-Dichloroethane-d4 (Surr) 68 - 127 97

Lab Sample ID: 240-230308-2 MS Client Sample ID: MW-86_080425 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 666990

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	8.99		ug/L		90	20 - 180	

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

104

Lab Sample ID: 240-230308-2 MSD

Matrix: Water

Analysis Batch: 666990

Alialysis Dalcii. 000330												
	Sample	Sample	Spike	MSD	MSD					%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	1	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	9.46		ug/L			95	20 - 180	5	20

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Prep Type: Total/NA

Client Sample ID: MW-86_080425

Client Sample ID: Method Blank

Prep Type: Total/NA

QC Sample Results

Client: Arcadis US Inc. Job ID: 240-230308-1

Project/Site: Ford LTP

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

Lab Sample ID: 240-230308-2 MSD

Matrix: Water

Analysis Batch: 666990

MSD MSD

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 102 68 - 127 Client Sample ID: MW-86_080425 Prep Type: Total/NA

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-230308-1

GC/MS VOA

Analysis Batch: 666990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-230308-2	MW-86_080425	Total/NA	Water	8260D SIM	
240-230308-3	MW-86S_080425	Total/NA	Water	8260D SIM	
MB 240-666990/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-666990/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-230308-2 MS	MW-86_080425	Total/NA	Water	8260D SIM	
240-230308-2 MSD	MW-86_080425	Total/NA	Water	8260D SIM	

Analysis Batch: 667040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-230308-1	TRIP BLANK_27	Total/NA	Water	8260D	
240-230308-2	MW-86_080425	Total/NA	Water	8260D	
240-230308-3	MW-86S_080425	Total/NA	Water	8260D	
MB 240-667040/10	Method Blank	Total/NA	Water	8260D	
LCS 240-667040/6	Lab Control Sample	Total/NA	Water	8260D	
240-230274-B-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-230274-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-230308-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_27

Lab Sample ID: 240-230308-1 Date Collected: 08/04/25 00:00

Matrix: Water

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed 8260D EET CLE 08/09/25 13:32 Total/NA Analysis 667040 MS

Client Sample ID: MW-86_080425 Lab Sample ID: 240-230308-2

Matrix: Water

Date Collected: 08/04/25 13:20 Date Received: 08/07/25 08:00

Date Received: 08/07/25 08:00

Batch Batch Dilution Batch Prepared Prep Type Method Run Factor Number Analyst or Analyzed Туре Lab Total/NA 8260D MS EET CLE 08/09/25 13:57 Analysis 667040 Total/NA Analysis 8260D SIM R5XG **EET CLE** 08/08/25 17:15 1 666990

Client Sample ID: MW-86S_080425 Lab Sample ID: 240-230308-3

Date Collected: 08/04/25 15:20 **Matrix: Water**

Date Received: 08/07/25 08:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** or Analyzed Lab 08/09/25 14:23 Total/NA 8260D MS EET CLE Analysis 667040 8260D SIM 08/08/25 17:38 Total/NA Analysis 666990 R5XG EET CLE 1

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-230308-1

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
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-26
lowa	State	421	06-01-27
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-28-26
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	06-30-26
New York	NELAP	10975	04-01-26
North Dakota	State	R-244	02-27-26
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-26
Texas	NELAP	T104704517-22-19	08-31-25
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-15-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

MICHIGAN 190

Chain of Custody Record

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TestAmence & Design ** em trademarks of TestAmence Laboratories, Inc.

VOA Sample Preservation Date/Time VOAs Frozen.
Sample(s)were further preserved in the laboratory Near the preserved in the laboratory Near the preserved in the laboratory
20. SAMPLE PRESERVATION
19 SAMPLE CONDITION were received after the recommended holding time had expired. Sample(s)were received after the recommended holding time had expired. were received in a broken container were received with bubble >6 mm in diameter (Notify PM)
Train relinguisted floor thing start 1099: US date at 8/6/25
18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Dadditional next page Labeled by THE 17/05
Concerning
Contacted PM Date byvia Verbal Voice Mail Other
15 Were air bubbles >6 mm in any VOA vials? Larger than this 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Ves No Yes No 17 Was a LL Hg or Me Hg trip blank present?
If yes, Questions 13-17 have been checked at the originating laboratory 13 Were all preserved sample(s) at the correct pH upon receipt? 14 Were VOAs on the COC? Yes No WA: pH Strip Lott HC463162 Yes No
alyses?
9 For each sample, does the COC specify preservatives (YN), # of containers (YN), and sample type of grab/comp(YN)? 10 Were correct bottle(s) used for the test(s) indicated?
Was/were the person(s) who collected the samples clearly identified on the COC? Did all bottles arrive in good condition (Unbroken)? Yes
4 Did custody papers accompany the sample(s)? 5 Were the custody papers relinquished & signed in the appropriate place? 6 (7) Yes No 10C
Were tamper/custody seals intact and uncompromised? Character of the state of the
Yes Yes
IR GUN# (OF U, d °C) Observed Cooler Temp 2 1 °C Cc
rnal used. Bubble Wrap Foam Plastic Ba
Storage Location
1 - 16
Cooler Received on 1735 Oriented on 0775 Cooler unpacked by
ins - Cleveland Sample Receipt form/Narrative - Login# - The Court Court Court

Page 20 of 21

Login Container Summary Report

240-230308

lemperature readings		THE REPORT OF THE PROPERTY OF	8
Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number
TRIP BLANK 27	240-230308 A 1	Voa Vial 40ml Hydrochloric Acid	
MW-86_080425	240-230308-A-2	Voa Vial 40ml Hydrochloric Acid	Taxanin and a second a second and a second a
MW 86 080425	240-230308 B-2	Voa Vial 40ml - Hydrochloric Acıd	
MW-86_080425	240-230308-C-2	Voa Vial 40ml - Hydrochloric Acid	
MW-86_080425	240-230308-D-2	Voa Vial 40ml Hydrochloric Acid	
MW-86_080425	240-230308-E-2	Voa Vial 40ml - Hydrochloric Acid	many manufactures and an analysis of the state of the sta
MW-86_080425	240-230308 F-2	Voa Vial 40ml Hydrochloric Acid	
MW-86S 080425	240-230308-A-3	Voa Vial 40ml - Hydrochloric Acid	
MW-86S_080425	240-230308-B-3	Voa Vial 40ml - Hydrochloric Acid	
MW 86S_080425	240-230308-C-3	Voa Vial 40ml - Hydrochloric Acid	
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MW-86S 080425	240-230308-E-3	Voa Vial 40ml - Hydrochloric Acid	
MW-86S_080425	240-230308 F 3	Voa Vial 40ml - Hydrochloric Acıd	

Page 21 of 21

DATA VERIFICATION REPORT



August 12, 2025

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

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - ON-SITE Soil Gas, Ground Water and Soil

Project number: 30251157.401.04 LTP

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

Laboratory submittal: 230308-1 Sample date: 2025-08-04

Report received by CADENA: 2025-08-12

Initial Data Verification completed by CADENA: 2025-08-12

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.

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch MS/MSD recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, MS/MSD Recovery, MS/MSD RPD, 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.
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: 230308-1

		Sample Name:	TRIP BL	4NK_27			MW-86_	_080425			MW-869	S_08042	5	
		Lab Sample ID:	240230	3081			240230	3082			240230	3083		
		Sample Date:	8/4/202	5			8/4/202	25			8/4/202	<u>2</u> 5		
				Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC														
OSW-8260E	<u>)</u>													
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		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		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
1	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	
OSW-8260E	<u>OSIM</u>													
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-230308-1

CADENA Verification Report: 2025-08-12

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 60647R Review Level: Tier III Project: 30251157.401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-230308-1 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	Barant Sample	Analysis		
Sample ID	Lab ID	Wallix	Collection Date	Parent Sample	voc	VOC SIM	
TRIP BLANK_27	240-230308-1	Water	08/04/2025		Х		
MW-86_080425	240-230308-2	Water	08/04/2025		X	X	
MW-86S_080425	240-230308-3	Water	08/04/2025		Х	X	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfor Accep	mance otable	Not Required	
	No	Yes	No	Yes	Required	
Sample receipt condition		Х		Х		
2. Requested analyses and sample results		Х		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		
9. 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 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.

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 VALIDATION CHECKLIST FOR VOCs

Rep	orted			Not Required	
No	Yes	No	Yes	Required	
C/MS)					
	Х		Х		
	Х		Х		
	Х		Х		
	Х		Х		
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	Х		Х		
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Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Febin J S

SIGNATURE:

DATE: August 21, 2025

PEER REVIEW: Andrew Korycinski

DATE: August 28, 2025

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

Chain of Custody Record

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-230308-1

Project/Site: Ford LTP

Qualifiers GC/MS VOA

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits. 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**

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

TNTC Too Numerous To Count

Client: Arcadis US Inc. Job ID: 240-230308-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_27

Lab Sample ID: 240-230308-1 Date Collected: 08/04/25 00:00

Matrix: Water

Date Received: 08/07/25 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			08/09/25 13:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/09/25 13:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/09/25 13:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/09/25 13:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/09/25 13:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/09/25 13:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			_		08/09/25 13:32	1
4-Bromofluorobenzene (Surr)	102		56 ₋ 136					08/09/25 13:32	1
Toluene-d8 (Surr)	106		78 - 122					08/09/25 13:32	1
Dibromofluoromethane (Surr)	105		73 - 120					08/09/25 13:32	1

Eurofins Cleveland

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Client: Arcadis US Inc. Job ID: 240-230308-1

Project/Site: Ford LTP

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-86_080425

Date Collected: 08/04/25 13:20 Date Received: 08/07/25 08:00 Lab Sample ID: 240-230308-2

Matrix: Water

08/09/25 13:57

08/09/25 13:57

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			08/08/25 17:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		68 - 127			-		08/08/25 17:15	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			08/09/25 13:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/09/25 13:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/09/25 13:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/09/25 13:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/09/25 13:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/09/25 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			-		08/09/25 13:57	1
4-Bromofluorobenzene (Surr)	96		56 ₋ 136					08/09/25 13:57	1

78 - 122

73 - 120

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103

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Client: Arcadis US Inc. Job ID: 240-230308-1

Project/Site: Ford LTP

Client Sample ID: MW-86S_080425

Date Collected: 08/04/25 15:20
Date Received: 08/07/25 08:00

Matrix: Water

Lab Sample ID: 240-230308-3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/08/25 17:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			68 - 127			_		08/08/25 17:38	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/09/25 14:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/09/25 14:23	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/09/25 14:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/09/25 14:23	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/09/25 14:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/09/25 14:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137					08/09/25 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137		08/09/25 14:23	1
4-Bromofluorobenzene (Surr)	94		56 - 136		08/09/25 14:23	1
Toluene-d8 (Surr)	102		78 - 122		08/09/25 14:23	1
Dibromofluoromethane (Surr)	101		73 _ 120		08/09/25 14:23	1

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