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ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/13/2025 3:17:09 PM Revision 1

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-219626-1

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

Generated 3/13/2025 3:17:09 PM Revision 1

3/13/2025 (Rev. 1)

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Definitions/Glossary

Client: Arcadis US Inc.

Job ID: 240-219626-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

F2 MS/MSD RPD exceeds control limits

J 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

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

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Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-219626-1 Eurofins Cleveland

Job Narrative 240-219626-1

Report revised 3/13/2025 to correct reported ID of sample 2.

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 2/28/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.1°C and 1.6°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-647052 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.

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Job ID: 240-219626-1

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Method Summary

Client: Arcadis US Inc. Project/Site: Ford LTP

Job ID: 240-219626-1

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: 240-219626-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219626-1	TRIP BLANK_163	Water	02/26/25 00:00	02/28/25 08:00
240-219626-2	MW-235_022625	Water	02/26/25 13:05	02/28/25 08:00

Detection Summary

Client: Arcadis US Inc. Job ID: 240-219626-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_163 Lab Sample ID: 240-219626-1

No Detections.

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.5	J	2.0	0.86	ug/L	1	_	8260D SIM	Total/NA
cis-1,2-Dichloroethene	1.2		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	3.1		1.0	0.45	ug/L	1		8260D	Total/NA

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-219626-1 Project/Site: Ford LTP

Lab Sample ID: 240-219626-1 Client Sample ID: TRIP BLANK_163

Date Collected: 02/26/25 00:00 **Matrix: Water** Date Received: 02/28/25 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			03/06/25 15:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/06/25 15:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 15:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/06/25 15:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 15:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/06/25 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137			•		03/06/25 15:56	1
4-Bromofluorobenzene (Surr)	98		56 ₋ 136					03/06/25 15:56	1
Toluene-d8 (Surr)	102		78 - 122					03/06/25 15:56	1
Dibromofluoromethane (Surr)	99		73 - 120					03/06/25 15:56	1

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-219626-1 Project/Site: Ford LTP

Client Sample ID: MW-235_022625

Lab Sample ID: 240-219626-2

Date Collected: 02/26/25 13:05 **Matrix: Water** Date Received: 02/28/25 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.5	J	2.0	0.86	ug/L			03/10/25 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127					03/10/25 14:36	1
Method: SW846 8260D - Vo	latile Organic	Compound	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/06/25 16:19	1
cis-1,2-Dichloroethene	1.2		1.0	0.46	ug/L			03/06/25 16:19	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 16:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/06/25 16:19	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 16:19	1
Vinyl chloride	3.1		1.0	0.45	ug/L			03/07/25 11:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137				-	03/06/25 16:19	1
1,2-Dichloroethane-d4 (Surr)	98		62 - 137					03/07/25 11:18	1
4-Bromofluorobenzene (Surr)	97		56 ₋ 136					03/06/25 16:19	1
4-Bromofluorobenzene (Surr)	80		56 - 136					03/07/25 11:18	1
Toluene-d8 (Surr)	104		78 - 122					03/06/25 16:19	1
Toluene-d8 (Surr)	92		78 - 122					03/07/25 11:18	1
Dibromofluoromethane (Surr)	97		73 - 120					03/06/25 16:19	1
Dibromofluoromethane (Surr)	100		73 - 120					03/07/25 11:18	1

Client: Arcadis US Inc.

Job ID: 240-219626-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surre	ogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-219544-B-4 MS	Matrix Spike	103	97	105	96
240-219544-B-4 MSD	Matrix Spike Duplicate	102	102	107	95
240-219584-B-9 MS	Matrix Spike	88	97	94	94
240-219584-B-9 MSD	Matrix Spike Duplicate	89	98	96	93
240-219626-1	TRIP BLANK_163	109	98	102	99
240-219626-2	MW-235_022625	108	97	104	97
240-219626-2	MW-235_022625	98	80	92	100
LCS 240-647052/4	Lab Control Sample	99	98	101	95
LCS 240-647220/4	Lab Control Sample	84	102	100	92
MB 240-647052/7	Method Blank	110	96	102	97
MB 240-647220/7	Method Blank	94	86	94	96

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)	
240-219626-2	MW-235_022625	106	
500-264504-A-12 MSD	Matrix Spike Duplicate	102	
500-264504-C-12 MS	Matrix Spike	106	
LCS 240-647508/4	Lab Control Sample	111	
MB 240-647508/6	Method Blank	107	

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

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Job ID: 240-219626-1

Client: Arcadis US Inc. Project/Site: Ford LTP

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

Lab Sample ID: MB 240-647052/7

Matrix: Water

Analysis Batch: 647052

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

MB MB Result Qualifier RL **MDL** Unit Dil Fac Analyte Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 03/06/25 10:59 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 03/06/25 10:59 1.0 U Tetrachloroethene 1.0 0.44 ug/L 03/06/25 10:59 0.51 ug/L 03/06/25 10:59 trans-1,2-Dichloroethene 1.0 U 1.0 Trichloroethene 1.0 U 1.0 0.44 ug/L 03/06/25 10:59 Vinyl chloride 1.0 U 1.0 0.45 ug/L 03/06/25 10:59

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 62 - 137 1,2-Dichloroethane-d4 (Surr) 110 03/06/25 10:59 4-Bromofluorobenzene (Surr) 96 56 - 136 03/06/25 10:59 102 78 - 122 Toluene-d8 (Surr) 03/06/25 10:59 Dibromofluoromethane (Surr) 97 73 - 120 03/06/25 10:59

Lab Sample ID: LCS 240-647052/4

Matrix: Water

Analysis Batch: 647052

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	25.0	24.5		ug/L		98	63 - 134	
cis-1,2-Dichloroethene	25.0	23.5		ug/L		94	77 - 123	
Tetrachloroethene	25.0	23.8		ug/L		95	76 - 123	
trans-1,2-Dichloroethene	25.0	23.6		ug/L		94	75 - 124	
Trichloroethene	25.0	22.6		ug/L		90	70 - 122	
Vinyl chloride	12.5	9.43		ug/L		75	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 99 62 - 137 4-Bromofluorobenzene (Surr) 98 56 - 136 Toluene-d8 (Surr) 101 78 - 122 73 - 120 Dibromofluoromethane (Surr) 95

Lab Sample ID: 240-219544-B-4 MS

Matrix: Water

Analysis Batch: 647052

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-219544-B-4 MSD

Matrix: Water

Analysis Batch: 647052

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		62 - 137

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Eurofins Cleveland

Job ID: 240-219626-1

Client: Arcadis US Inc. Project/Site: Ford LTP

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

1.0 U

Lab Sample ID: 240-219544-B-4 MSD

Matrix: Water

Analysis Batch: 647052

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

MSD MSD %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 102 56 - 136 Toluene-d8 (Surr) 107 78 - 122 95 Dibromofluoromethane (Surr) 73 - 120

Lab Sample ID: MB 240-647220/7 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 647220

Prep Type: Total/NA

03/07/25 10:42

MB MB Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac Analyte 03/07/25 10:42 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 1.0 U 1.0 0.46 ug/L 03/07/25 10:42 cis-1,2-Dichloroethene Tetrachloroethene 1.0 U 1.0 0.44 ug/L 03/07/25 10:42 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 03/07/25 10:42 0.44 ug/L Trichloroethene 1.0 U 1.0 03/07/25 10:42

MB MB Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 94 62 - 137 03/07/25 10:42 4-Bromofluorobenzene (Surr) 86 56 - 136 03/07/25 10:42 Toluene-d8 (Surr) 94 78 - 122 03/07/25 10:42 Dibromofluoromethane (Surr) 96 73 - 120 03/07/25 10:42

1.0

0.45 ug/L

Lab Sample ID: LCS 240-647220/4

Matrix: Water

Vinyl chloride

Analysis Batch: 647220

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

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,1-Dichloroethene 25.0 26.8 107 63 - 134 ug/L cis-1,2-Dichloroethene 25.0 25.4 ug/L 102 77 - 123 Tetrachloroethene 25.0 22.3 ug/L 89 76 - 123 trans-1,2-Dichloroethene 25.0 25.9 ug/L 104 75 - 124 Trichloroethene 25.0 24.6 ug/L 99 70 - 122 Vinyl chloride 12.5 12.7 ug/L 101 60 - 144

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 84 62 - 137 102 56 - 136 4-Bromofluorobenzene (Surr) 78 - 122 Toluene-d8 (Surr) 100 73 - 120 Dibromofluoromethane (Surr) 92

Lab Sample ID: 240-219584-B-9 MS

Matrix: Water

Analysis Batch: 647220

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

	Sample S	ample	Spike	MS	MS				%Rec	
Analyte	Result Q	ualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
cis-1,2-Dichloroethene	1.0 U		25.0	23.3		ug/L		93	66 - 128	
Tetrachloroethene	1.0 U	Ì	25.0	18.6		ug/L		74	62 - 131	
trans-1,2-Dichloroethene	1.0 U	l	25.0	23.2		ug/L		93	56 - 136	

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Client: Arcadis US Inc. Job ID: 240-219626-1 Project/Site: Ford LTP

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

Lab Sample ID: 240-219584-B-9 MS

Matrix: Water

Analysis Batch: 647220

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS Sample Sample Spike %Rec Result Qualifier Added Result Qualifier Unit %Rec Limits Trichloroethene 1.0 Ū 25.0 22 8 91 61 - 124 ug/L Vinyl chloride 1.0 U F2 12.5 10.1 ug/L 81 43 - 157

MS MS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 88 62 - 137 4-Bromofluorobenzene (Surr) 97 56 - 136 Toluene-d8 (Surr) 78 - 122 94 Dibromofluoromethane (Surr) 94 73 - 120

Lab Sample ID: 240-219584-B-9 MSD

Matrix: Water

Analysis Batch: 647220

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Sample Sample Spike MSD MSD %Rec **RPD** RPD Result Qualifier Added Result Qualifier Limits Limit **Analyte** Unit %Rec cis-1,2-Dichloroethene 1.0 U 25.0 25.2 66 - 128 14 ug/L 101 Tetrachloroethene 1.0 U 25.0 19.3 ug/L 77 62 - 13120 4 trans-1,2-Dichloroethene 1.0 U 25.0 25.7 ug/L 103 56 - 136 15 11 Trichloroethene 1.0 U 25.0 ug/L 99 61 - 1248 15 248 1.0 UF2 Vinyl chloride 12.5 13.0 F2 ug/L 104 43 - 157 25 24

MSD MSD Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 89 62 - 137 4-Bromofluorobenzene (Surr) 98 56 - 136 78 - 122 Toluene-d8 (Surr) 96 Dibromofluoromethane (Surr) 93 73 - 120

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

Lab Sample ID: MB 240-647508/6

Matrix: Water

Analysis Batch: 647508

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

MB MB **Analyte** Result Qualifier RL **MDL** Unit D Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 Ū 2.0 0.86 ug/L 03/10/25 13:25

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 68 - 127 03/10/25 13:25 107

Lab Sample ID: LCS 240-647508/4

Matrix: Water

Analysis Batch: 647508

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

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 10.0 102 10.2 ug/L 75 - 121

LCS LCS

MB MB

%Recovery Qualifier Limits Surrogate 1,2-Dichloroethane-d4 (Surr) 111 68 - 127

Eurofins Cleveland

QC Sample Results

Client: Arcadis US Inc. Job ID: 240-219626-1 Project/Site: Ford LTP

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

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

Matrix: Water

Analysis Batch: 647508 RPD Sample Sample Spike MSD MSD %Rec Result Qualifier Analyte **Result Qualifier** Added Unit D %Rec Limits RPD Limit 500 1,4-Dioxane 5500 5750 4 ug/L 46 20 - 180 3 20

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

Lab Sample ID: 500-264504-A-12 MSD

Lab Sample ID: 500-264504-C-12 MS **Client Sample ID: Matrix Spike**

Matrix: Water Prep Type: Total/NA

Analysis Batch: 647508 %Rec Sample Sample Spike MS MS

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 5500 500 5900 4 ug/L 76 20 - 180

MS MS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 106 68 - 127

QC Association Summary

Client: Arcadis US Inc. Job ID: 240-219626-1 Project/Site: Ford LTP

GC/MS VOA

Analysis Batch: 647052

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219626-1	TRIP BLANK_163	Total/NA	Water	8260D	
240-219626-2	MW-235_022625	Total/NA	Water	8260D	
MB 240-647052/7	Method Blank	Total/NA	Water	8260D	
LCS 240-647052/4	Lab Control Sample	Total/NA	Water	8260D	
240-219544-B-4 MS	Matrix Spike	Total/NA	Water	8260D	
240-219544-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 647220

Lab Sample ID 240-219626-2	Client Sample ID MW-235_022625	Prep Type Total/NA	Watrix Water	Method 8260D	Prep Batch
MB 240-647220/7	Method Blank	Total/NA	Water	8260D	
LCS 240-647220/4	Lab Control Sample	Total/NA	Water	8260D	
240-219584-B-9 MS	Matrix Spike	Total/NA	Water	8260D	
240-219584-B-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 647508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219626-2	MW-235_022625	Total/NA	Water	8260D SIM	
MB 240-647508/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-647508/4	Lab Control Sample	Total/NA	Water	8260D SIM	
500-264504-A-12 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
500-264504-C-12 MS	Matrix Spike	Total/NA	Water	8260D SIM	

Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-219626-1 Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_163

Lab Sample ID: 240-219626-1 Date Collected: 02/26/25 00:00

Matrix: Water

Date Received: 02/28/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	647052	LEE	EET CLE	03/06/25 15:56

Lab Sample ID: 240-219626-2 Client Sample ID: MW-235_022625

Date Collected: 02/26/25 13:05 **Matrix: Water**

Date Received: 02/28/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	647052	LEE	EET CLE	03/06/25 16:19
Total/NA	Analysis	8260D		1	647220	LEE	EET CLE	03/07/25 11:18
Total/NA	Analysis	8260D SIM		1	647508	R5XG	EET CLE	03/10/25 14:36

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: 240-219626-1

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	08-31-25
lowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
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	07-03-25
New York	NELAP	10975	04-01-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

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MICHIGAN 190

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

190	TestAmerica Labora	tory location:	Farming	ton Hills -	- 38855	Hills T	ech Dr	ive, S	uite 600,	Farmin	gton H	ills 48	331									THE LEADER IN ENVIRONM	ENTAL TESTI
Client Contact	Regular	ory program:		┌ DW		┌ NP	DES		RCR		C Otl	her											
Company Name: Arcadis	Client Project	Manager: Meg	an Meckle	y	- 19	Site Co	ntact: :	Samai	ntha Szpa	ichler			Lab	Contac	t: Mil	œ Dell	Monic)		+	+	TestAmerica Labo COC No:	ratories, In
Address: 28550 Cabot Drive, Suite 500	Telephone: 248					Telepho	no: 24	18 00.1	-2240				Teler	hone:	330_4	97_939	6				-	+	
City/State/Zip: Novi, MI, 48377													·cic	mone.	JJ0-4					Щ		1 of 1	COCs
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.com		- 1	An	ilysis I	was	round Tir	ne		Н				A	nalys	es	\neg		T	For lab use only	
Project Name: Ford LTP	Sampler Name		1			TAT if d	iTerent fi		ow L													Walk-in client	
	Marxi	am t	lano	in		10 d	ay	F 2	weeks			ш						_				Lab sampling	
Project Number: 30206169.0401.03	Method of Ship	ment/Carrier:							week days		ξŸ			8260D			۵	S					
PO # US3460021848	Shipping/Track	cing No:						Г			Ple (7	ę	8260D	SE 826			e 8260	8260D		Ш		Job/SDG No:	70.00
			5	Matrix					reservative	5	Filtered Sample (Y/N) Composite=C/Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				Sample Specifi	c Notes /
Sample Identification	Sample Date	Sample Time	Air Aqueous	Sediment	Ogh C	H2SO4 HNO3	딡	NaO!	Unpres	o l	Con Filte	1.1	cis-1	Trans	PCE	TCE	Viny	1.4-	\perp	Ш		Special Instru	ictions:
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TRIP BLANK_ 23 (3) MW-235_022625	2/24/25	1305	6				6			1	NG	X	X	X	X	X	X	X		П		3 VOAs for 82 3 VOAs for 82	
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Possible Hazard Identification Non-Hazard Tammable Gin Is	ritant Poise	n B f	Jnknow	\ <u></u>			ple Dis Retur		(A fee m	ay be as:				e retai			an I r	nonth) Mor	nths	П		-l	
Special Instructions/QC Requirements & Comments:	nsite											,								П			
Submit all results through Cadena at jtomalia@caden		E203728																					
Relinquished Maryen Maren	Company: Arcée	.is	Date 2	Zime 2	5	141		Recei	ved by:	old	Sta	rda	و			Comp	any:	dis				Date/Time: 2/26/25	1415
Relinquished by:	Company: AZCA	7D15	Date Z	Time (27/2	25	1425	5	Recei	ved by	Water	16		-				- E					Date/Time 2/27/25	1421
Relinquished by:	Company:	A	Date	Time /27/2	25	142	2	Recei	JES	SE	Mo	ROS	SKE)				MI) —			Date/Time:	080

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Eurofins Cleveland Sample Receipt Form/Narrative Lōgin # ::
Site Name
FodEx: 1" Grd Exp 11PS FAS Wishput Client Drop Off English Courses Other
ars Drop-off Date/Time Storage Location
Ised. Bubole Wrap Foam Plastic Bag 1
COOLANT: Wet Ide: Blue Ice Dry Ice Water None Cooler temperature upon receipt IR GUN# (CFT), C) Observed Cooler Temp °C Corrected Cooler Temp °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -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 intact and uncompromised? -Were tamper/custody seals intact and uncompromised? -Were tamper/custody seals intact and uncompromised?
Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? 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 (YN), # of containers (YN), and sample type of grab/comp(YN)? 10 Were correct bottle(s) used for the test(s) indicated? (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? 14 Wese VOA on the COC? 15 Yes No NA pH Strip Loff HC448976
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #COUDICO Yes No. 17 Was a LL Hg or Me Hg trip blank present?
Contacted PMDatebyvia Verbal Voice Mail Other Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Sample(s) were received after the recommended holding time had expired. Sample(s) were received in a broken container
were received with bi
20. SAMPLE PRESERVATION
Time preserved. Preservative(s) added/Lot number(s):
VOA Sample Preservation - Date/Time VOAs Frozen.

Page 20 of 22

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Wet Ice W) ,	IR GUN #:	x Other	Client Box	EC
Corrected Coolant Temp °C (Circle)	Cori Ter	Observed Temp °C	IR Gun # Observed Corrected (Circle) Temp °C Temp °C	Description Circle)	Cooler Descı (Circle)	လ

Login Container Summary Report

240-219626

remperature readings			20
Client Sample ID	Lab ID	Container Type	Container Preservation Preservation 7
TRIP BLANK_163	240-219626-A-1	Voa Vial 40ml - Hydrochloric Acid	
MW-23S_022625	240-219626-A-2	Voa Vial 40ml - Hydrochloric Acıd	
MW-23S_022625	240-219626-B-2	Voa Vial 40ml - Hydrochloric Acid	
MW-23S_022625	240-219626-C-2	Voa Vial 40ml - Hydrochloric Acid	
MW-23S_022625	240-219626-D-2	Voa Vial 40ml - Hydrochloric Acıd	
MW-23S_022625	240-219626-E-2	Voa Vial 40ml - Hydrochloric Acid	
MW-23S_022625	240-219626-F-2	Voa Vial 40ml - Hydrochloric Acid	

Page 1 of 1

DATA VERIFICATION REPORT



March 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 (vapor 301.04) 30206169.0401.04

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

Laboratory submittal: 219626-1 Sample date: 2025-02-26

Report received by CADENA: 2025-03-12

Initial Data Verification completed by CADENA: 2025-03-12

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.

Revision: Correct sample -002 ID.

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.

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: 219626-1

		Sample Name: Lab Sample ID: Sample Date:		261			5_02262 6262 25	5		
		2/26/2025 Report			2/26/2025 Valid Report				Valid	
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC	_									
<u>OSW-8260</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		1.2	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		3.1	1.0	ug/l	
OSW-8260	<u>DSIM</u>									
	1,4-Dioxane	123-91-1					1.5	2.0	ug/l	J