

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-238059-1

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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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Definitions/Glossary

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

Job ID: 240-238059-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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

Case Narrative

Client: Arcadis US Inc.
Project: Ford LTP

Job ID: 240-238059-1

Job ID: 240-238059-1

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Job Narrative 240-238059-1

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 11/19/2025 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 0.8°C.

GC/MS VOA

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

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Method Summary

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

Job ID: 240-238059-1

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

Protocol References:

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

Laboratory References:

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

Sample Summary

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

Job ID: 240-238059-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-238059-1	TRIP BLANK_116	Water	11/14/25 00:00	11/19/25 08:00	Michigan
240-238059-2	MW-52_111425	Water	11/14/25 10:55	11/19/25 08:00	Michigan
240-238059-3	MW-234_111425	Water	11/14/25 12:10	11/19/25 08:00	Michigan
240-238059-4	MW-213S_111425	Water	11/14/25 13:00	11/19/25 08:00	Michigan
240-238059-5	MW-235_111425	Water	11/14/25 13:50	11/19/25 08:00	Michigan

Detection Summary

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

Job ID: 240-238059-1

Client Sample ID: TRIP BLANK_116

Lab Sample ID: 240-238059-1

No Detections.

Client Sample ID: MW-52_111425

Lab Sample ID: 240-238059-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.9	J	2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	0.86	J	1.0	0.45	ug/L	1		8260D	Total/NA

Client Sample ID: MW-234_111425

Lab Sample ID: 240-238059-3

No Detections.

Client Sample ID: MW-213S_111425

Lab Sample ID: 240-238059-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.0		1.0	0.46	ug/L	1		8260D	Total/NA

Client Sample ID: MW-235_111425

Lab Sample ID: 240-238059-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.1		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	1.4		1.0	0.45	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 240-238059-1

Client Sample ID: TRIP BLANK_116

Lab Sample ID: 240-238059-1

Date Collected: 11/14/25 00:00

Matrix: Water

Date Received: 11/19/25 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/21/25 13:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/25 13:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 13:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/25 13:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 13:03	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/25 13:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		11/21/25 13:03	1
4-Bromofluorobenzene (Surr)	104		56 - 136		11/21/25 13:03	1
Toluene-d8 (Surr)	101		78 - 122		11/21/25 13:03	1
Dibromofluoromethane (Surr)	105		73 - 120		11/21/25 13:03	1

Client Sample Results

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

Job ID: 240-238059-1

Client Sample ID: MW-52_111425

Lab Sample ID: 240-238059-2

Date Collected: 11/14/25 10:55

Matrix: Water

Date Received: 11/19/25 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.9	J	2.0	0.86	ug/L			11/24/25 12:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 136					11/24/25 12:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/21/25 16:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/25 16:34	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 16:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/25 16:34	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 16:34	1
Vinyl chloride	0.86	J	1.0	0.45	ug/L			11/21/25 16:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137					11/21/25 16:34	1
4-Bromofluorobenzene (Surr)	105		56 - 136					11/21/25 16:34	1
Toluene-d8 (Surr)	102		78 - 122					11/21/25 16:34	1
Dibromofluoromethane (Surr)	107		73 - 120					11/21/25 16:34	1

Client Sample Results

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

Job ID: 240-238059-1

Client Sample ID: MW-234_111425

Lab Sample ID: 240-238059-3

Date Collected: 11/14/25 12:10

Matrix: Water

Date Received: 11/19/25 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/24/25 13:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 136					11/24/25 13:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/21/25 16:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/25 16:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 16:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/25 16:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 16:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/25 16:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137					11/21/25 16:58	1
4-Bromofluorobenzene (Surr)	105		56 - 136					11/21/25 16:58	1
Toluene-d8 (Surr)	102		78 - 122					11/21/25 16:58	1
Dibromofluoromethane (Surr)	107		73 - 120					11/21/25 16:58	1

Client Sample Results

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

Job ID: 240-238059-1

Client Sample ID: MW-213S_111425

Lab Sample ID: 240-238059-4

Date Collected: 11/14/25 13:00

Matrix: Water

Date Received: 11/19/25 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/24/25 13:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		64 - 136					11/24/25 13:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/21/25 17:21	1
cis-1,2-Dichloroethene	1.0		1.0	0.46	ug/L			11/21/25 17:21	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 17:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/25 17:21	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 17:21	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/25 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137					11/21/25 17:21	1
4-Bromofluorobenzene (Surr)	105		56 - 136					11/21/25 17:21	1
Toluene-d8 (Surr)	101		78 - 122					11/21/25 17:21	1
Dibromofluoromethane (Surr)	107		73 - 120					11/21/25 17:21	1

Client Sample Results

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

Job ID: 240-238059-1

Client Sample ID: MW-235_111425

Lab Sample ID: 240-238059-5

Date Collected: 11/14/25 13:50

Matrix: Water

Date Received: 11/19/25 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/24/25 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 136					11/24/25 13:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/21/25 17:45	1
cis-1,2-Dichloroethene	1.1		1.0	0.46	ug/L			11/21/25 17:45	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 17:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/25 17:45	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 17:45	1
Vinyl chloride	1.4		1.0	0.45	ug/L			11/21/25 17:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137					11/21/25 17:45	1
4-Bromofluorobenzene (Surr)	102		56 - 136					11/21/25 17:45	1
Toluene-d8 (Surr)	99		78 - 122					11/21/25 17:45	1
Dibromofluoromethane (Surr)	104		73 - 120					11/21/25 17:45	1

Surrogate Summary

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

Job ID: 240-238059-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (62-137)	BFB (56-136)	TOL (78-122)	DBFM (73-120)
240-238043-B-3 MS	Matrix Spike	95	105	104	101
240-238043-B-3 MSD	Matrix Spike Duplicate	93	102	99	101
240-238059-1	TRIP BLANK_116	101	104	101	105
240-238059-2	MW-52_111425	102	105	102	107
240-238059-3	MW-234_111425	104	105	102	107
240-238059-4	MW-213S_111425	103	105	101	107
240-238059-5	MW-235_111425	100	102	99	104
LCS 240-681542/5	Lab Control Sample	94	104	102	100
MB 240-681542/10	Method Blank	103	105	102	106
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
TOL = Toluene-d8 (Surr)					
DBFM = Dibromofluoromethane (Surr)					

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (64-136)			
240-238059-2	MW-52_111425	107			
240-238059-3	MW-234_111425	101			
240-238059-4	MW-213S_111425	110			
240-238059-5	MW-235_111425	104			
240-238067-E-4 MS	Matrix Spike	110			
240-238067-E-4 MSD	Matrix Spike Duplicate	109			
LCS 240-681852/5	Lab Control Sample	96			
MB 240-681852/7	Method Blank	96			
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					

QC Sample Results

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

Job ID: 240-238059-1

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

Lab Sample ID: MB 240-681542/10

Matrix: Water

Analysis Batch: 681542

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/21/25 12:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/25 12:16	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 12:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/25 12:16	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 12:16	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/25 12:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137		11/21/25 12:16	1
4-Bromofluorobenzene (Surr)	105		56 - 136		11/21/25 12:16	1
Toluene-d8 (Surr)	102		78 - 122		11/21/25 12:16	1
Dibromofluoromethane (Surr)	106		73 - 120		11/21/25 12:16	1

Lab Sample ID: LCS 240-681542/5

Matrix: Water

Analysis Batch: 681542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	25.0	26.7		ug/L		107	63 - 134
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	77 - 123
Tetrachloroethene	25.0	22.5		ug/L		90	76 - 123
trans-1,2-Dichloroethene	25.0	25.7		ug/L		103	75 - 124
Trichloroethene	25.0	23.9		ug/L		95	70 - 122
Vinyl chloride	25.0	26.6		ug/L		106	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	104		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

Lab Sample ID: 240-238043-B-3 MS

Matrix: Water

Analysis Batch: 681542

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	1.0	U	25.0	24.4		ug/L		98	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	23.4		ug/L		94	66 - 128
Tetrachloroethene	1.0	U	25.0	20.1		ug/L		80	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	23.8		ug/L		95	56 - 136
Trichloroethene	1.0	U	25.0	21.8		ug/L		87	61 - 124
Vinyl chloride	1.0	U	25.0	26.0		ug/L		104	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		62 - 137
4-Bromofluorobenzene (Surr)	105		56 - 136
Toluene-d8 (Surr)	104		78 - 122

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QC Sample Results

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

Job ID: 240-238059-1

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

Lab Sample ID: 240-238043-B-3 MS

Matrix: Water

Analysis Batch: 681542

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	101		73 - 120

Lab Sample ID: 240-238043-B-3 MSD

Matrix: Water

Analysis Batch: 681542

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	1.0	U	25.0	24.5		ug/L		98	56 - 135	1	26
cis-1,2-Dichloroethene	1.0	U	25.0	24.0		ug/L		96	66 - 128	3	14
Tetrachloroethene	1.0	U	25.0	20.1		ug/L		80	62 - 131	0	20
trans-1,2-Dichloroethene	1.0	U	25.0	23.9		ug/L		96	56 - 136	0	15
Trichloroethene	1.0	U	25.0	21.9		ug/L		88	61 - 124	1	15
Vinyl chloride	1.0	U	25.0	25.4		ug/L		102	43 - 157	2	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	99		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

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

Lab Sample ID: MB 240-681852/7

Matrix: Water

Analysis Batch: 681852

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/24/25 12:00	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)	96		64 - 136		11/24/25 12:00	1			

Lab Sample ID: LCS 240-681852/5

Matrix: Water

Analysis Batch: 681852

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	10.0	8.30		ug/L		83	68 - 120

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		64 - 136

Lab Sample ID: 240-238067-E-4 MS

Matrix: Water

Analysis Batch: 681852

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.0	U	10.0	8.51		ug/L		85	45 - 145

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-238059-1

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

		MS	MS								
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	110		64 - 136								
Lab Sample ID: 240-238067-E-4 MSD				Client Sample ID: Matrix Spike Duplicate							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 681852											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	8.67		ug/L		87	45 - 145	2	19
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	109		64 - 136								

QC Association Summary

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

Job ID: 240-238059-1

GC/MS VOA

Analysis Batch: 681542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238059-1	TRIP BLANK_116	Total/NA	Water	8260D	
240-238059-2	MW-52_111425	Total/NA	Water	8260D	
240-238059-3	MW-234_111425	Total/NA	Water	8260D	
240-238059-4	MW-213S_111425	Total/NA	Water	8260D	
240-238059-5	MW-235_111425	Total/NA	Water	8260D	
MB 240-681542/10	Method Blank	Total/NA	Water	8260D	
LCS 240-681542/5	Lab Control Sample	Total/NA	Water	8260D	
240-238043-B-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-238043-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 681852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238059-2	MW-52_111425	Total/NA	Water	8260D SIM	
240-238059-3	MW-234_111425	Total/NA	Water	8260D SIM	
240-238059-4	MW-213S_111425	Total/NA	Water	8260D SIM	
240-238059-5	MW-235_111425	Total/NA	Water	8260D SIM	
MB 240-681852/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-681852/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-238067-E-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-238067-E-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Lab Chronicle

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

Job ID: 240-238059-1

Client Sample ID: TRIP BLANK_116

Lab Sample ID: 240-238059-1

Date Collected: 11/14/25 00:00

Matrix: Water

Date Received: 11/19/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681542	MS	EET CLE	11/21/25 13:03

Client Sample ID: MW-52_111425

Lab Sample ID: 240-238059-2

Date Collected: 11/14/25 10:55

Matrix: Water

Date Received: 11/19/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681542	MS	EET CLE	11/21/25 16:34
Total/NA	Analysis	8260D SIM		1	681852	R5XG	EET CLE	11/24/25 12:47

Client Sample ID: MW-234_111425

Lab Sample ID: 240-238059-3

Date Collected: 11/14/25 12:10

Matrix: Water

Date Received: 11/19/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681542	MS	EET CLE	11/21/25 16:58
Total/NA	Analysis	8260D SIM		1	681852	R5XG	EET CLE	11/24/25 13:11

Client Sample ID: MW-213S_111425

Lab Sample ID: 240-238059-4

Date Collected: 11/14/25 13:00

Matrix: Water

Date Received: 11/19/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681542	MS	EET CLE	11/21/25 17:21
Total/NA	Analysis	8260D SIM		1	681852	R5XG	EET CLE	11/24/25 13:34

Client Sample ID: MW-235_111425

Lab Sample ID: 240-238059-5

Date Collected: 11/14/25 13:50

Matrix: Water

Date Received: 11/19/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681542	MS	EET CLE	11/21/25 17:45
Total/NA	Analysis	8260D SIM		1	681852	R5XG	EET CLE	11/24/25 13:58

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: 240-238059-1

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	09-30-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-26
Iowa	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	2250	09-30-26
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	02-27-26
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-26
Texas	NELAP	T104704517	08-31-26
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-30-26
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-26

TestAmerica Laboratory location: Farmington Hills — 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

THE LEADER IN ENVIRONMENTAL TESTING

Client Contact		Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other										TestAmerica Laboratories, Inc.																		
Company Name: Arcadis		Client Project Manager: Megan Meckley					Site Contact: Samantha Spaichler					Lab Contact: Mike DelMonico					COC No:													
Address: 28550 Cabot Drive, Suite 500		Telephone: 248-994-2240					Telephone: 248-994-2240					Telephone: 338-497-9396					1 of 1 COCs													
City/State/Zip: Novi, MI, 48377		Email: megan.meckley@arcadis.com					Analysis Turnaround Time					Analyses					For lab use only													
Phone: 248-994-2240		Sampler Name: <i>Jeremy Myers</i>					TAT if different from below										Walk-in client													
Project Name: Ford LTP		Method of Shipment/Carrier:					10 day ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day ☐										Lab sampling													
Project Number: 30251157.401.04		Shipping/Tracking No:															Job/SDG No:													
PO # US3410032803																														
Sample Identification		Sample Date		Sample Time		Matrix					Containers & Preservatives					Filtered Sample (Y/N)					Composite-C / Grab-G					Sample Specific Notes / Special Instructions:				
						Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Urea	Other:													
TRIP BLANK_ 116		---		---		1						1						NG	X	X	X	X	X	X						1 Trip Blank
MW-52-11/4/25		11/14/25		10:55		6						6						NG	X	X	X	X	X	X						3 VOAs for 8260D 3 VOAs for 8260D SIM
MW-234-11/4/25		11/14/25		12:10		6						6						NG	X	X	X	X	X	X						
MW-2135-11/4/25		11/14/25		13:00		6						6						NG	X	X	X	X	X	X						
MW-235-11/4/25		11/14/25		13:50		6						6						NG	X	X	X	X	X	X						

Eurofins - Cleveland Sample Receipt Form/Narrative		Login # _____
Barberton Facility		
Client <u>Aradis</u>	Site Name _____	Cooler unpacked by: <u>McArthur</u>
Cooler Received on <u>11/19/25</u>	Opened on <u>11/19/25</u>	
FedEx: 1 st Grd Exp <u>UPS</u> <u>FAS</u> <u>Wagon</u> <u>Mount</u> Client Drop Off <u>Eurofins Courier</u> Other _____	Receipt After-hours: Drop-off Date/Time _____ Storage Location _____	
Eurofins Cooler # <u>EC</u> Foam Box ☐ Client Cooler ☐ Box ☐ Other _____		
Packing material used: <u>Bubble Wrap</u> <u>Foam</u> <u>Plastic Bag</u> <u>None</u> Other _____		
COOLANT <u>Water</u> <u>Blue Ice</u> <u>Dry Ice</u> <u>Water</u> <u>None</u> ☐ See Multiple Cooler Form		
1 Cooler temperature upon receipt _____		
IR GUN # <u>13</u> (CF <u>40.6</u> °C) Observed Cooler Temp <u>0.2</u> °C Corrected Cooler Temp <u>0.8</u> °C		
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u> ☒ Yes ☐ No ☐ NA		
-Were the seals on the outside of the cooler(s) signed & dated? ☒ Yes ☐ No ☐ NA		
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? ☒ Yes ☐ No ☐ NA		
-Were tamper/custody seals intact and uncompromised? ☒ Yes ☐ No ☐ NA		
3 Shippers' packing slip attached to the cooler(s)? ☒ Yes ☐ No ☐ NA		
4 Did custody papers accompany the sample(s)? ☒ Yes ☐ No ☐ NA		
5 Were the custody papers relinquished & signed in the appropriate place? ☒ Yes ☐ No ☐ NA		
6 Was/were the person(s) who collected the samples clearly identified on the COC? ☒ Yes ☐ No ☐ NA		
7 Did all bottles arrive in good condition (Unbroken)? ☒ Yes ☐ No ☐ NA		
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? ☒ Yes ☐ No ☐ NA		
9 For each sample, does the COC specify preservatives (<u>YNN</u>), # of containers (<u>YNN</u>), and sample type of grab/comp(<u>YNN</u>)? ☒ Yes ☐ No ☐ NA		
10 Were correct bottle(s) used for the test(s) indicated? ☒ Yes ☐ No ☐ NA		
11 Sufficient quantity received to perform indicated analyses? ☒ Yes ☐ No ☐ NA		
12 Are these work share samples and all listed on the COC? ☒ Yes ☐ No ☐ NA		
If yes, Questions 13-17 have been checked at the originating laboratory		
13 Were all preserved sample(s) at the correct pH upon receipt? ☒ Yes ☐ No ☐ NA pH Strip Lot# HC567196		
14 Were VOAs on the COC? ☒ Yes ☐ No ☐ NA		
15 Were air bubbles > 6 mm in any VOA vials? ☒ Yes ☐ No ☐ NA		
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # <u>NA</u> ☒ Yes ☐ No ☐ NA		
17 Was a LL Hg or Me Hg trip blank present? ☒ Yes ☐ No ☐ NA		
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____		
Concerning _____		
18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page		Labeled by: _____
		Labels Verified by: _____
19 SAMPLE CONDITION		
Sample(s) _____	were received after the recommended holding time had expired	
Sample(s) _____	were received in a broken container	
Sample(s) _____	were received with bubble > 6 mm in diameter (Notify PM)	
20 SAMPLE PRESERVATION		
Sample(s) _____	were further preserved in the laboratory	
Time preserved _____	Preservative(s) added/Lot number(s) _____	
VOA Sample Preservation - Date/Time VOAs Frozen _____		

Temperature readings

Client Sample ID	Lab ID	Container Type	Container			Preservation	Preservation
			pH	Temp	Added		
TRIP BLANK_116	240-238059-A-1	Voa Vial 40ml - Hydrochloric Acid					
MW-52_111425	240-238059-A-2	Voa Vial 40ml - Hydrochloric Acid					
MW-52_111425	240-238059-B-2	Voa Vial 40ml - Hydrochloric Acid					
MW-52_111425	240-238059-C-2	Voa Vial 40ml - Hydrochloric Acid					
MW-52_111425	240-238059-D-2	Voa Vial 40ml - Hydrochloric Acid					
MW-52_111425	240-238059-E-2	Voa Vial 40ml - Hydrochloric Acid					
MW-52_111425	240-238059-F-2	Voa Vial 40ml - Hydrochloric Acid					
MW-234_111425	240-238059-A-3	Voa Vial 40ml - Hydrochloric Acid					
MW-234_111425	240-238059-B-3	Voa Vial 40ml - Hydrochloric Acid					
MW-234_111425	240-238059-C-3	Voa Vial 40ml - Hydrochloric Acid					
MW-234_111425	240-238059-D-3	Voa Vial 40ml - Hydrochloric Acid					
MW-234_111425	240-238059-E-3	Voa Vial 40ml - Hydrochloric Acid					
MW-234_111425	240-238059-F-3	Voa Vial 40ml - Hydrochloric Acid					
MW-213S_111425	240-238059-A-4	Voa Vial 40ml - Hydrochloric Acid					
MW-213S_111425	240-238059-B-4	Voa Vial 40ml - Hydrochloric Acid					
MW-213S_111425	240-238059-C-4	Voa Vial 40ml - Hydrochloric Acid					
MW-213S_111425	240-238059-D-4	Voa Vial 40ml - Hydrochloric Acid					
MW-213S_111425	240-238059-E-4	Voa Vial 40ml - Hydrochloric Acid					
MW-213S_111425	240-238059-F-4	Voa Vial 40ml - Hydrochloric Acid					
MW-235_111425	240-238059-A-5	Voa Vial 40ml - Hydrochloric Acid					
MW-235_111425	240-238059-B-5	Voa Vial 40ml - Hydrochloric Acid					
MW-235_111425	240-238059-C-5	Voa Vial 40ml - Hydrochloric Acid					
MW-235_111425	240-238059-D-5	Voa Vial 40ml - Hydrochloric Acid					
MW-235_111425	240-238059-E-5	Voa Vial 40ml - Hydrochloric Acid					
MW-235_111425	240-238059-F-5	Voa Vial 40ml - Hydrochloric Acid					

DATA VERIFICATION REPORT



November 26, 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: 238059-1

Sample date: 2025-11-14

Report received by CADENA: 2025-11-26

Initial Data Verification completed by CADENA: 2025-11-26

Number of Samples:5

Sample Matrices:Water

Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

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

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

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

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 238059-1

Analyte	Cas No.	Sample Name: TRIP BLANK_116				MW-52_111425				MW-234_111425				MW-213S_111425				MW-235_111425			
		Lab Sample ID: 2402380591				2402380592				2402380593				2402380594				2402380595			
		Sample Date: 11/14/2025				11/14/2025				11/14/2025				11/14/2025				11/14/2025			
		Report		Valid		Report		Valid		Report		Valid		Report		Valid		Report		Valid	
		Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC																					
<u>OSW-8260D</u>																					
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	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	---	1.0	1.0	ug/l	---	1.1	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	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	---	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	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	0.86	1.0	ug/l	J	ND	1.0	ug/l	---	ND	1.0	ug/l	---	1.4	1.0	ug/l	---
<u>OSW-8260DSIM</u>																					
1,4-Dioxane	123-91-1					1.9	2.0	ug/l	J	ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---