



ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-237239-1

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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: 240-237239-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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: 240-237239-1

Job ID: 240-237239-1

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Job Narrative 240-237239-1

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 11/8/2025 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 3 coolers at receipt time were 0.9°C, 1.3°C and 3.8°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-680229 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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Method Summary

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

Job ID: 240-237239-1

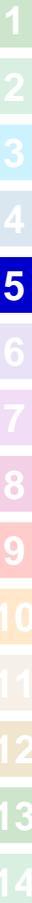
Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE

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: 240-237239-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-237239-1	TRIP BLANK_40	Water	11/06/25 00:00	11/08/25 08:00	Michigan
240-237239-2	MW-15-60D_110625	Water	11/06/25 10:45	11/08/25 08:00	Michigan
240-237239-3	MW-15-59D_110625	Water	11/06/25 12:55	11/08/25 08:00	Michigan

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

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

Job ID: 240-237239-1

Client Sample ID: TRIP BLANK_40

Lab Sample ID: 240-237239-1

No Detections.

Client Sample ID: MW-15-60D_110625

Lab Sample ID: 240-237239-2

No Detections.

Client Sample ID: MW-15-59D_110625

Lab Sample ID: 240-237239-3

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 240-237239-1

Client Sample ID: TRIP BLANK_40

Lab Sample ID: 240-237239-1

Date Collected: 11/06/25 00:00

Matrix: Water

Date Received: 11/08/25 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			11/12/25 19:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/12/25 19:21	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/12/25 19:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/12/25 19:21	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/12/25 19:21	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/12/25 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137		11/12/25 19:21	1
4-Bromofluorobenzene (Surr)	83		56 - 136		11/12/25 19:21	1
Toluene-d8 (Surr)	81		78 - 122		11/12/25 19:21	1
Dibromofluoromethane (Surr)	112		73 - 120		11/12/25 19:21	1

Client Sample Results

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

Job ID: 240-237239-1

Client Sample ID: MW-15-60D_110625

Lab Sample ID: 240-237239-2

Date Collected: 11/06/25 10:45

Matrix: Water

Date Received: 11/08/25 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			11/13/25 12:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 136					11/13/25 12:55	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			11/12/25 19:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/12/25 19:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/12/25 19:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/12/25 19:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/12/25 19:46	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/12/25 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137					11/12/25 19:46	1
4-Bromofluorobenzene (Surr)	65		56 - 136					11/12/25 19:46	1
Toluene-d8 (Surr)	88		78 - 122					11/12/25 19:46	1
Dibromofluoromethane (Surr)	113		73 - 120					11/12/25 19:46	1

Client Sample Results

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

Job ID: 240-237239-1

Client Sample ID: MW-15-59D_110625

Lab Sample ID: 240-237239-3

Date Collected: 11/06/25 12:55

Matrix: Water

Date Received: 11/08/25 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			11/13/25 23:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 136					11/13/25 23:52	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			11/14/25 16:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/14/25 16:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/14/25 16:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/14/25 16:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/14/25 16:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/14/25 16:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137					11/14/25 16:17	1
4-Bromofluorobenzene (Surr)	104		56 - 136					11/14/25 16:17	1
Toluene-d8 (Surr)	103		78 - 122					11/14/25 16:17	1
Dibromofluoromethane (Surr)	106		73 - 120					11/14/25 16:17	1

Surrogate Summary

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

Job ID: 240-237239-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (62-137)	BFB (56-136)	TOL (78-122)	DBFM (73-120)
180-198260-G-1 MS	Matrix Spike	97	106	105	102
180-198260-G-1 MSD	Matrix Spike Duplicate	96	107	105	100
240-237156-A-3 MS	Matrix Spike	91	100	97	79
240-237156-A-3 MSD	Matrix Spike Duplicate	91	96	97	98
240-237239-1	TRIP BLANK_40	109	83	81	112
240-237239-2	MW-15-60D_110625	106	65	88	113
240-237239-3	MW-15-59D_110625	104	104	103	106
LCS 240-680229/4	Lab Control Sample	90	100	100	90
LCS 240-680566/6	Lab Control Sample	100	105	106	104
MB 240-680229/8	Method Blank	107	90	94	110
MB 240-680566/11	Method Blank	105	106	104	109

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (64-136)
240-237239-2	MW-15-60D_110625	105
240-237239-3	MW-15-59D_110625	107
240-237246-B-2 MS	Matrix Spike	105
240-237246-B-2 MSD	Matrix Spike Duplicate	108
240-237492-C-3 MS	Matrix Spike	99
240-237492-C-3 MSD	Matrix Spike Duplicate	99
LCS 240-680408/5	Lab Control Sample	97
LCS 240-680516/2	Lab Control Sample	102
MB 240-680408/7	Method Blank	98
MB 240-680516/4	Method Blank	100

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-237239-1

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

Lab Sample ID: MB 240-680229/8

Matrix: Water

Analysis Batch: 680229

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/12/25 13:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/12/25 13:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/12/25 13:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/12/25 13:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/12/25 13:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/12/25 13:09	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	107		62 - 137		11/12/25 13:09	1
4-Bromofluorobenzene (Surr)	90		56 - 136		11/12/25 13:09	1
Toluene-d8 (Surr)	94		78 - 122		11/12/25 13:09	1
Dibromofluoromethane (Surr)	110		73 - 120		11/12/25 13:09	1

Lab Sample ID: LCS 240-680229/4

Matrix: Water

Analysis Batch: 680229

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	77 - 123
Tetrachloroethene	25.0	23.2		ug/L		93	76 - 123
trans-1,2-Dichloroethene	25.0	25.8		ug/L		103	75 - 124
Trichloroethene	25.0	25.7		ug/L		103	70 - 122
Vinyl chloride	12.5	9.51		ug/L		76	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	90		73 - 120

Lab Sample ID: 240-237156-A-3 MS

Matrix: Water

Analysis Batch: 680229

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
	Result	Qualifier							
1,1-Dichloroethene	20	U	500	456		ug/L		91	56 - 135
cis-1,2-Dichloroethene	110		500	474		ug/L		73	66 - 128
Tetrachloroethene	20	U	500	468		ug/L		94	62 - 131
trans-1,2-Dichloroethene	20	U	500	438		ug/L		88	56 - 136
Trichloroethene	41		500	513		ug/L		94	61 - 124
Vinyl chloride	20	U	250	137		ug/L		55	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	97		78 - 122

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QC Sample Results

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

Job ID: 240-237239-1

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

Lab Sample ID: 240-237156-A-3 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 680229

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	79		73 - 120

Lab Sample ID: 240-237156-A-3 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 680229

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,1-Dichloroethene	20	U	500	487		ug/L		97	56 - 135	7	26
cis-1,2-Dichloroethene	110		500	469		ug/L		72	66 - 128	1	14
Tetrachloroethene	20	U	500	467		ug/L		93	62 - 131	0	20
trans-1,2-Dichloroethene	20	U	500	447		ug/L		89	56 - 136	2	15
Trichloroethene	41		500	507		ug/L		93	61 - 124	1	15
Vinyl chloride	20	U	250	150		ug/L		60	43 - 157	9	24

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
4-Bromofluorobenzene (Surr)	96		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

Lab Sample ID: MB 240-680566/11

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 680566

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/14/25 11:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/14/25 11:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/14/25 11:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/14/25 11:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/14/25 11:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/14/25 11:58	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	105		62 - 137		11/14/25 11:58	1
4-Bromofluorobenzene (Surr)	106		56 - 136		11/14/25 11:58	1
Toluene-d8 (Surr)	104		78 - 122		11/14/25 11:58	1
Dibromofluoromethane (Surr)	109		73 - 120		11/14/25 11:58	1

Lab Sample ID: LCS 240-680566/6

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 680566

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
1,1-Dichloroethene	25.0	26.5		ug/L		106	63 - 134
cis-1,2-Dichloroethene	25.0	25.1		ug/L		100	77 - 123
Tetrachloroethene	25.0	23.3		ug/L		93	76 - 123
trans-1,2-Dichloroethene	25.0	25.9		ug/L		104	75 - 124
Trichloroethene	25.0	24.0		ug/L		96	70 - 122

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QC Sample Results

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

Job ID: 240-237239-1

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

Lab Sample ID: LCS 240-680566/6

Matrix: Water

Analysis Batch: 680566

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	25.0	24.1		ug/L		97	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	105		56 - 136
Toluene-d8 (Surr)	106		78 - 122
Dibromofluoromethane (Surr)	104		73 - 120

Lab Sample ID: 180-198260-G-1 MS

Matrix: Water

Analysis Batch: 680566

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	50	U	1250	1300		ug/L		104	56 - 135
Tetrachloroethene	50	U	1250	1120		ug/L		89	62 - 131
Trichloroethene	50	U	1250	1150		ug/L		92	61 - 124
Vinyl chloride	50	U	1250	1230		ug/L		98	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	106		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

Lab Sample ID: 180-198260-G-1 MSD

Matrix: Water

Analysis Batch: 680566

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	50	U	1250	1280		ug/L		102	56 - 135	2	26
Tetrachloroethene	50	U	1250	1120		ug/L		89	62 - 131	0	20
Trichloroethene	50	U	1250	1150		ug/L		92	61 - 124	0	15
Vinyl chloride	50	U	1250	1200		ug/L		96	43 - 157	2	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	107		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 240-680408/7

Matrix: Water

Analysis Batch: 680408

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			11/13/25 10:34	1

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-237239-1

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

Lab Sample ID: MB 240-680408/7

Matrix: Water

Analysis Batch: 680408

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		64 - 136		11/13/25 10:34	1

Lab Sample ID: LCS 240-680408/5

Matrix: Water

Analysis Batch: 680408

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	8.65		ug/L		86	68 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		64 - 136

Lab Sample ID: 240-237246-B-2 MS

Matrix: Water

Analysis Batch: 680408

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	9.46		ug/L		95	45 - 145

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		64 - 136

Lab Sample ID: 240-237246-B-2 MSD

Matrix: Water

Analysis Batch: 680408

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	Limit
1,4-Dioxane	2.0	U	10.0	9.69		ug/L		97	45 - 145	2	19

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		64 - 136

Lab Sample ID: MB 240-680516/4

Matrix: Water

Analysis Batch: 680516

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			11/13/25 19:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		64 - 136		11/13/25 19:11	1

QC Sample Results

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

Job ID: 240-237239-1

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

Lab Sample ID: LCS 240-680516/2

Matrix: Water

Analysis Batch: 680516

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	8.81		ug/L		88	68 - 120
Surrogate		LCS %Recovery	LCS Qualifier				Limits
1,2-Dichloroethane-d4 (Surr)		102					64 - 136

Lab Sample ID: 240-237492-C-3 MS

Matrix: Water

Analysis Batch: 680516

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	2.3		10.0	12.1		ug/L		98	45 - 145
Surrogate		MS %Recovery		MS Qualifier					Limits
1,2-Dichloroethane-d4 (Surr)		99							64 - 136

Lab Sample ID: 240-237492-C-3 MSD

Matrix: Water

Analysis Batch: 680516

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	Limit
1,4-Dioxane	2.3		10.0	12.0		ug/L		97	45 - 145	1	19
Surrogate		MSD %Recovery		MSD Qualifier					Limits		
1,2-Dichloroethane-d4 (Surr)		99							64 - 136		

QC Association Summary

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

Job ID: 240-237239-1

GC/MS VOA

Analysis Batch: 680229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237239-1	TRIP BLANK_40	Total/NA	Water	8260D	
240-237239-2	MW-15-60D_110625	Total/NA	Water	8260D	
MB 240-680229/8	Method Blank	Total/NA	Water	8260D	
LCS 240-680229/4	Lab Control Sample	Total/NA	Water	8260D	
240-237156-A-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-237156-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 680408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237239-2	MW-15-60D_110625	Total/NA	Water	8260D SIM	
MB 240-680408/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-680408/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-237246-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-237246-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 680516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237239-3	MW-15-59D_110625	Total/NA	Water	8260D SIM	
MB 240-680516/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-680516/2	Lab Control Sample	Total/NA	Water	8260D SIM	
240-237492-C-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-237492-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 680566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237239-3	MW-15-59D_110625	Total/NA	Water	8260D	
MB 240-680566/11	Method Blank	Total/NA	Water	8260D	
LCS 240-680566/6	Lab Control Sample	Total/NA	Water	8260D	
180-198260-G-1 MS	Matrix Spike	Total/NA	Water	8260D	
180-198260-G-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-237239-1

Client Sample ID: TRIP BLANK_40

Lab Sample ID: 240-237239-1

Date Collected: 11/06/25 00:00

Matrix: Water

Date Received: 11/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	680229	LEE	EET CLE	11/12/25 19:21

Client Sample ID: MW-15-60D_110625

Lab Sample ID: 240-237239-2

Date Collected: 11/06/25 10:45

Matrix: Water

Date Received: 11/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	680229	LEE	EET CLE	11/12/25 19:46
Total/NA	Analysis	8260D SIM		1	680408	R5XG	EET CLE	11/13/25 12:55

Client Sample ID: MW-15-59D_110625

Lab Sample ID: 240-237239-3

Date Collected: 11/06/25 12:55

Matrix: Water

Date Received: 11/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	680566	MS	EET CLE	11/14/25 16:17
Total/NA	Analysis	8260D SIM		1	680516	R5XG	EET CLE	11/13/25 23:52

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: 240-237239-1

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
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	09-14-26
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-26



Eurofins - Cleveland Sample Receipt Form/Narrative Login # _____
 Barberton Facility Cooler unpacked by JLM

Client Atcadi's Site Name _____
 Cooler Received on 11/8/25 Opened on 11/11/25
 FedEx. 1st Grd Exp DPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____
 Packing material used Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT Wet Ice Blank Ice Dry Ice Water None
 1 Cooler temperature upon receipt See Multiple Cooler Form

IR GUN # 13 (CR + 0.1 °C) Observed Cooler Temp _____ °C Corrected Cooler Temp _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 Were the seals on the outside of the cooler(s) signed & dated? Yes No
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA

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

- 3 Shippers' packing slip attached to the cooler(s)? Yes No
 - 4 Did custody papers accompany the sample(s)? Yes No
 - 5 Were the custody papers relinquished & signed in the appropriate place? Yes No
 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
 - 7 Did all bottles arrive in good condition (Unbroken)? Yes No
 - 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
 - 9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
 - 10 Were correct bottle(s) used for the test(s) indicated? Yes No
 - 11 Sufficient quantity received to perform indicated analyses? Yes No
 12. Are these work share samples and all listed on the COC? Yes No
- If yes, Questions 13-17 have been checked at the originating laboratory
- 13 Were all preserved sample(s) at the correct pH upon receipt? Yes No
 - 14 Were VOAs on the COC? Yes No
 - 15 Were air bubbles >6 mm in any VOA vials? Yes No
 - 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # NA Yes No
 - 17 Was a LL Hg or Me Hg trip blank present? Yes No

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) _____
 Time preserved _____ Preservative(s) added/L of number(s) _____ were further preserved in the laboratory
 VOA Sample Preservation - Date/Time VOAs Frozen _____



11/11/2025

Login Container Summary Report

240-237239

Temperature readings

Client Sample ID	Lab ID	Container Type	Container		Preservation Lot Number
			pH	Temp Added	
TRIP BLANK_40	240-237239-A-1	Voa Vial 40ml - Hydrochloric Acid			
MW-60D_110625	240-237239-A-2	Voa Vial 40ml - Hydrochloric Acid			
MW-60D_110625	240-237239-B-2	Voa Vial 40ml - Hydrochloric Acid			
MW-60D_110625	240-237239-C-2	Voa Vial 40ml - Hydrochloric Acid			
MW-60D_110625	240-237239-D-2	Voa Vial 40ml - Hydrochloric Acid			
MW-60D_110625	240-237239-E-2	Voa Vial 40ml - Hydrochloric Acid			
MW-60D_110625	240-237239-F-2	Voa Vial 40ml - Hydrochloric Acid			
MW-59D_110625	240-237239-A-3	Voa Vial 40ml - Hydrochloric Acid			
MW-59D_110625	240-237239-B-3	Voa Vial 40ml - Hydrochloric Acid			
MW-59D_110625	240-237239-C-3	Voa Vial 40ml - Hydrochloric Acid			
MW-59D_110625	240-237239-D-3	Voa Vial 40ml - Hydrochloric Acid			
MW-59D_110625	240-237239-E-3	Voa Vial 40ml - Hydrochloric Acid			
MW-59D_110625	240-237239-F-3	Voa Vial 40ml - Hydrochloric Acid			

DATA VERIFICATION REPORT



November 19, 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: 237239-1
Sample date: 2025-11-06
Report received by CADENA: 2025-11-18
Initial Data Verification completed by CADENA: 2025-11-19
Number of Samples:3
Sample Matrices:Water and trip blank
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 CCV STANDARD 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 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: 237239-1

Sample Name:	TRIP BLANK_40	MW-15-60D_110625	MW-15-59D_110625
Lab Sample ID:	2402372391	2402372392	2402372393
Sample Date:	11/6/2025	11/6/2025	11/6/2025

Analyte	Cas No.	TRIP BLANK_40				MW-15-60D_110625				MW-15-59D_110625			
		Result	Limit	Units	Valid Qualifier	Result	Limit	Units	Valid Qualifier	Result	Limit	Units	Valid 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	---
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	---
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	---
<u>OSW-8260DSIM</u>													
1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	ND	2.0	ug/l	---