

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-238716-1

Eurofins Cleveland

Job Notes

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Authorization



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Definitions/Glossary

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

Job ID: 240-238716-1

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: 240-238716-1

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Job Narrative 240-238716-1

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 11/25/2025 10:15 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 3.5°C.

GC/MS VOA

Method 8260D: No MS/MSD reported with tune due to surrogate failure

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: 240-238716-1

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: 240-238716-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-238716-1	TRIP BLANK_89	Water	11/21/25 00:00	11/25/25 10:15	Michigan
240-238716-2	MW-45_112125	Water	11/21/25 12:30	11/25/25 10:15	Michigan
240-238716-3	DUP-02	Water	11/21/25 00:00	11/25/25 10:15	Michigan

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

Detection Summary

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

Job ID: 240-238716-1

Client Sample ID: TRIP BLANK_89

Lab Sample ID: 240-238716-1

No Detections.

Client Sample ID: MW-45_112125

Lab Sample ID: 240-238716-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	96		1.0	0.45	ug/L	1		8260D	Total/NA

Client Sample ID: DUP-02

Lab Sample ID: 240-238716-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	92		2.5	1.1	ug/L	2.5		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: 240-238716-1

Client Sample ID: TRIP BLANK_89

Lab Sample ID: 240-238716-1

Date Collected: 11/21/25 00:00

Matrix: Water

Date Received: 11/25/25 10:15

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			12/03/25 14:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/03/25 14:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 14:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/03/25 14:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 14:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/03/25 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137		12/03/25 14:30	1
4-Bromofluorobenzene (Surr)	83		56 - 136		12/03/25 14:30	1
Toluene-d8 (Surr)	92		78 - 122		12/03/25 14:30	1
Dibromofluoromethane (Surr)	112		73 - 120		12/03/25 14:30	1

Client Sample Results

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

Job ID: 240-238716-1

Client Sample ID: MW-45_112125

Lab Sample ID: 240-238716-2

Date Collected: 11/21/25 12:30

Matrix: Water

Date Received: 11/25/25 10:15

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			12/02/25 15:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 136					12/02/25 15:13	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			12/03/25 17:39	1
cis-1,2-Dichloroethene	11		1.0	0.46	ug/L			12/03/25 17:39	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 17:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/03/25 17:39	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 17:39	1
Vinyl chloride	96		1.0	0.45	ug/L			12/03/25 17:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		62 - 137					12/03/25 17:39	1
4-Bromofluorobenzene (Surr)	85		56 - 136					12/03/25 17:39	1
Toluene-d8 (Surr)	95		78 - 122					12/03/25 17:39	1
Dibromofluoromethane (Surr)	118		73 - 120					12/03/25 17:39	1

Client Sample Results

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

Job ID: 240-238716-1

Client Sample ID: DUP-02

Lab Sample ID: 240-238716-3

Date Collected: 11/21/25 00:00

Matrix: Water

Date Received: 11/25/25 10:15

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			12/02/25 15:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		64 - 136					12/02/25 15:36	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			12/03/25 18:03	1
cis-1,2-Dichloroethene	11		1.0	0.46	ug/L			12/03/25 18:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 18:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/03/25 18:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 18:03	1
Vinyl chloride	92		2.5	1.1	ug/L			12/04/25 13:42	2.5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		62 - 137					12/03/25 18:03	1
1,2-Dichloroethane-d4 (Surr)	106		62 - 137					12/04/25 13:42	2.5
4-Bromofluorobenzene (Surr)	81		56 - 136					12/03/25 18:03	1
4-Bromofluorobenzene (Surr)	87		56 - 136					12/04/25 13:42	2.5
Toluene-d8 (Surr)	91		78 - 122					12/03/25 18:03	1
Toluene-d8 (Surr)	95		78 - 122					12/04/25 13:42	2.5
Dibromofluoromethane (Surr)	116		73 - 120					12/03/25 18:03	1
Dibromofluoromethane (Surr)	116		73 - 120					12/04/25 13:42	2.5

Surrogate Summary

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

Job ID: 240-238716-1

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)
240-238716-1	TRIP BLANK_89	109	83	92	112
240-238716-2	MW-45_112125	113	85	95	118
240-238716-3	DUP-02	110	81	91	116
240-238716-3	DUP-02	106	87	95	116
240-238788-B-3 MS	Matrix Spike	89	96	95	96
240-238788-B-3 MSD	Matrix Spike Duplicate	91	105	100	101
LCS 240-682715/5	Lab Control Sample	93	100	100	98
LCS 240-682917/5	Lab Control Sample	95	103	106	99
MB 240-682715/9	Method Blank	112	86	93	116
MB 240-682917/9	Method Blank	104	84	93	107

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)
240-238715-A-2 MS	Matrix Spike	109
240-238715-A-2 MSD	Matrix Spike Duplicate	102
240-238716-2	MW-45_112125	104
240-238716-3	DUP-02	100
LCS 240-682566/5	Lab Control Sample	99
MB 240-682566/7	Method Blank	97

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-238716-1

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

Lab Sample ID: MB 240-682715/9

Matrix: Water

Analysis Batch: 682715

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			12/03/25 11:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/03/25 11:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 11:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/03/25 11:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 11:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/03/25 11:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137		12/03/25 11:44	1
4-Bromofluorobenzene (Surr)	86		56 - 136		12/03/25 11:44	1
Toluene-d8 (Surr)	93		78 - 122		12/03/25 11:44	1
Dibromofluoromethane (Surr)	116		73 - 120		12/03/25 11:44	1

Lab Sample ID: LCS 240-682715/5

Matrix: Water

Analysis Batch: 682715

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	27.3		ug/L		109	63 - 134
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	77 - 123
Tetrachloroethene	25.0	25.9		ug/L		104	76 - 123
trans-1,2-Dichloroethene	25.0	26.1		ug/L		104	75 - 124
Trichloroethene	25.0	25.4		ug/L		101	70 - 122
Vinyl chloride	25.0	30.6		ug/L		122	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

Lab Sample ID: MB 240-682917/9

Matrix: Water

Analysis Batch: 682917

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			12/04/25 11:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/04/25 11:20	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/04/25 11:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/04/25 11:20	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/04/25 11:20	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/04/25 11:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137		12/04/25 11:20	1
4-Bromofluorobenzene (Surr)	84		56 - 136		12/04/25 11:20	1
Toluene-d8 (Surr)	93		78 - 122		12/04/25 11:20	1

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QC Sample Results

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

Job ID: 240-238716-1

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

Lab Sample ID: MB 240-682917/9
Matrix: Water
Analysis Batch: 682917

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	107		73 - 120		12/04/25 11:20	1

Lab Sample ID: LCS 240-682917/5
Matrix: Water
Analysis Batch: 682917

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	27.1		ug/L		108	63 - 134	
cis-1,2-Dichloroethene	25.0	25.4		ug/L		102	77 - 123	
Tetrachloroethene	25.0	26.6		ug/L		106	76 - 123	
trans-1,2-Dichloroethene	25.0	26.4		ug/L		105	75 - 124	
Trichloroethene	25.0	25.0		ug/L		100	70 - 122	
Vinyl chloride	25.0	32.1		ug/L		128	60 - 144	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	95		62 - 137
4-Bromofluorobenzene (Surr)	103		56 - 136
Toluene-d8 (Surr)	106		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Lab Sample ID: 240-238788-B-3 MS
Matrix: Water
Analysis Batch: 682917

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	24.0		ug/L		96	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	23.6		ug/L		94	66 - 128	
Tetrachloroethene	1.0	U	25.0	21.0		ug/L		84	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	23.5		ug/L		94	56 - 136	
Trichloroethene	1.0	U	25.0	22.6		ug/L		90	61 - 124	
Vinyl chloride	1.0	U	25.0	26.2		ug/L		105	43 - 157	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	89		62 - 137
4-Bromofluorobenzene (Surr)	96		56 - 136
Toluene-d8 (Surr)	95		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-238788-B-3 MSD
Matrix: Water
Analysis Batch: 682917

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	26.8		ug/L		107	56 - 135	11	26	
cis-1,2-Dichloroethene	1.0	U	25.0	25.4		ug/L		102	66 - 128	8	14	
Tetrachloroethene	1.0	U	25.0	22.8		ug/L		91	62 - 131	8	20	
trans-1,2-Dichloroethene	1.0	U	25.0	25.4		ug/L		102	56 - 136	8	15	
Trichloroethene	1.0	U	25.0	24.0		ug/L		96	61 - 124	6	15	

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QC Sample Results

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

Job ID: 240-238716-1

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

Lab Sample ID: 240-238788-B-3 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 682917

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl chloride	1.0	U	25.0	28.3		ug/L		113	43 - 157	8	24
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	91		62 - 137								
4-Bromofluorobenzene (Surr)	105		56 - 136								
Toluene-d8 (Surr)	100		78 - 122								
Dibromofluoromethane (Surr)	101		73 - 120								

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

Lab Sample ID: MB 240-682566/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 682566

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			12/02/25 14:02	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 136					12/02/25 14:02	1

Lab Sample ID: LCS 240-682566/5

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 682566

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	10.0	7.88		ug/L		79	68 - 120
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	99		64 - 136				

Lab Sample ID: 240-238715-A-2 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 682566

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.0	U	10.0	8.76		ug/L		88	45 - 145
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	109		64 - 136						

Lab Sample ID: 240-238715-A-2 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 682566

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	9.05		ug/L		90	45 - 145	3	19

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-238716-1

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

Lab Sample ID: 240-238715-A-2 MSD

Matrix: Water

Analysis Batch: 682566

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

<i>Surrogate</i>	<i>MSD</i>	<i>MSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
1,2-Dichloroethane-d4 (Surr)	102		64 - 136

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QC Association Summary

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

Job ID: 240-238716-1

GC/MS VOA

Analysis Batch: 682566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238716-2	MW-45_112125	Total/NA	Water	8260D SIM	
240-238716-3	DUP-02	Total/NA	Water	8260D SIM	
MB 240-682566/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-682566/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-238715-A-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-238715-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 682715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238716-1	TRIP BLANK_89	Total/NA	Water	8260D	
240-238716-2	MW-45_112125	Total/NA	Water	8260D	
240-238716-3	DUP-02	Total/NA	Water	8260D	
MB 240-682715/9	Method Blank	Total/NA	Water	8260D	
LCS 240-682715/5	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 682917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238716-3	DUP-02	Total/NA	Water	8260D	
MB 240-682917/9	Method Blank	Total/NA	Water	8260D	
LCS 240-682917/5	Lab Control Sample	Total/NA	Water	8260D	
240-238788-B-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-238788-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-238716-1

Client Sample ID: TRIP BLANK_89

Lab Sample ID: 240-238716-1

Date Collected: 11/21/25 00:00

Matrix: Water

Date Received: 11/25/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682715	MS	EET CLE	12/03/25 14:30

Client Sample ID: MW-45_112125

Lab Sample ID: 240-238716-2

Date Collected: 11/21/25 12:30

Matrix: Water

Date Received: 11/25/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682715	MS	EET CLE	12/03/25 17:39
Total/NA	Analysis	8260D SIM		1	682566	R5XG	EET CLE	12/02/25 15:13

Client Sample ID: DUP-02

Lab Sample ID: 240-238716-3

Date Collected: 11/21/25 00:00

Matrix: Water

Date Received: 11/25/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682715	MS	EET CLE	12/03/25 18:03
Total/NA	Analysis	8260D		2.5	682917	R5XG	EET CLE	12/04/25 13:42
Total/NA	Analysis	8260D SIM		1	682566	R5XG	EET CLE	12/02/25 15:36

Laboratory References:

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

Accreditation/Certification Summary

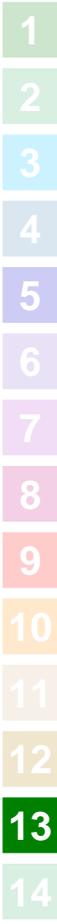
Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-238716-1

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

Client Contact		Regulatory program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other										TestAmerica Laboratories, Inc.										
Company Name: Arcadis		Client Project Manager: Megan Meckley				Site Contact: Samantha Szaichler				Lab Contact: Mike DelMonico		COC No:										
Address: 28550 Cabot Drive, Suite 500		Telephone: 248-994-2240				Telephone: 248-994-2240				Telephone: 330-497-9396		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>Maryam Hanani</i>				TAT if different from below						Walk-in client										
Project Name: Ford LTP		Method of Shipment/Carrier:				10 day <input checked="" type="checkbox"/> 3 weeks						Lab sampling										
Project Number: 30251157.401.04		Shipping/Tracking No:				<input type="checkbox"/> 2 weeks						Job/SDG No:										
PO # 185440032893 <i>(S) 11/24/25 053460027714</i>						<input type="checkbox"/> 1 week																
						<input type="checkbox"/> 2 days																
						<input type="checkbox"/> 1 day																
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	Uppres	Other:				
TRIP BLANK_89	---	---	1					1						NG	X	X	X	X	X	X		1 Trip Blank
MW-45-11/21/25	11/21/25	1230	6					6						NG	X	X	X	X	X	X		3 VOAs for 8260D 3 VOAs for 8260D SIM
DUP-02	11/21/25	---	6					6						NG	X	X	X	X	X	X		↓
Possible Hazard Identification										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)												
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months												
Special Instructions/QC Requirements & Comments: <i>onsite</i>																						
Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728																						
Level IV Reporting requested.																						
Relinquished by: <i>Maryam Hanani</i>		Company: <i>Arcadis</i>		Date/Time: <i>11/21/25 1335</i>		Received by: <i>Novi Cold Storage</i>		Company: <i>Arcadis</i>		Date/Time: <i>11/24/25 1335</i>												
Relinquished by: <i>Lotter Jay</i>		Company: <i>ARCADIS</i>		Date/Time: <i>11/24/25 1424</i>		Received by: <i>Martin</i>		Company: <i>EETA</i>		Date/Time: <i>11/24/25 1425</i>												
Relinquished by: <i>Martin</i>		Company: <i>EETA</i>		Date/Time: <i>11/24/25 1426</i>		Received in Laboratory by: <i>Martin</i>		Company: <i>EUR</i>		Date/Time: <i>11/25/25 1015</i>												



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Eurofins - Cleveland Sample Receipt Form/Narrative Login # _____
 Barberton Facility

Client Arccadis Site Name _____ Cooler unpacked by: Warhin

Cooler Received on 11/25/25 Opened on 11/25/25

FedEx: 1st Grd UPS 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. Bottle Wrap Foam Plastic Bag None Other _____

COOLANT Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt See Multiple Cooler Form

IR GUN # 17 (CF 40.7 °C) Observed Cooler Temp. 28 °C Corrected Cooler Temp 3.5 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 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 (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?

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# HCS67196

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 # N/A 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

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservation Temp</u>	<u>Preservation Added</u>	<u>Preservation Lot Number</u>
TRIP BLANK_89	240-238716-A-1	Voa Vial 40ml - Hydrochloric Acid				
MW-45_112125	240-238716-A-2	Voa Vial 40ml - Hydrochloric Acid				
MW-45_112125	240-238716-B-2	Voa Vial 40ml - Hydrochloric Acid				
MW-45_112125	240-238716-C-2	Voa Vial 40ml - Hydrochloric Acid				
MW-45_112125	240-238716-D-2	Voa Vial 40ml - Hydrochloric Acid				
MW-45_112125	240-238716-E-2	Voa Vial 40ml - Hydrochloric Acid				
MW-45_112125	240-238716-F-2	Voa Vial 40ml - Hydrochloric Acid				
DUP-02	240-238716-A-3	Voa Vial 40ml - Hydrochloric Acid				
DUP-02	240-238716-B-3	Voa Vial 40ml - Hydrochloric Acid				
DUP-02	240-238716-C-3	Voa Vial 40ml - Hydrochloric Acid				
DUP-02	240-238716-D-3	Voa Vial 40ml - Hydrochloric Acid				
DUP-02	240-238716-E-3	Voa Vial 40ml - Hydrochloric Acid				
DUP-02	240-238716-F-3	Voa Vial 40ml - Hydrochloric Acid				

DATA VERIFICATION REPORT



December 06, 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: 238716-1
Sample date: 2025-11-21
Report received by CADENA: 2025-12-06
Initial Data Verification completed by CADENA: 2025-12-06
Number of Samples:3
Sample Matrices:Water
Test Categories:GCMS VOC
Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

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.

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: 238716-1

Sample Name: TRIP BLANK_89	MW-45_112125	DUP-02
Lab Sample ID: 2402387161	2402387162	2402387163
Sample Date: 11/21/2025	11/21/2025	11/21/2025

Analyte	Cas No.	TRIP BLANK_89				MW-45_112125				DUP-02			
		Result	Limit	Units	Valid Qualifier	Result	Limit	Units	Valid Qualifier	Result	Limit	Units	Valid Qualifier

GC/MS VOC

OSW-8260D

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	---	11	1.0	ug/l	---	11	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	---	96	1.0	ug/l	---	92	2.5	ug/l	---

OSW-8260DSIM

1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	ND	2.0	ug/l	---
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