

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-244347-1

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: 240-244347-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Arcadis US Inc.
Project: Ford LTP

Job ID: 240-244347-1

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Job Narrative 240-244347-1

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 2/28/2026 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.0°C and 1.8°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: 240-244347-1

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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- 10
- 11
- 12
- 13
- 14

Sample Summary

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

Job ID: 240-244347-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-244347-1	TRIP BLANK_111	Water	02/27/26 00:00	02/28/26 08:00	Michigan
240-244347-2	MW-51_022726	Water	02/27/26 10:45	02/28/26 08:00	Michigan
240-244347-3	PW-16-02_022726	Water	02/27/26 11:50	02/28/26 08:00	Michigan

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

Detection Summary

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

Job ID: 240-244347-1

Client Sample ID: TRIP BLANK_111

Lab Sample ID: 240-244347-1

No Detections.

Client Sample ID: MW-51_022726

Lab Sample ID: 240-244347-2

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

Client Sample ID: PW-16-02_022726

Lab Sample ID: 240-244347-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.93	J	2.0	0.86	ug/L	1		8260D SIM	Total/NA
cis-1,2-Dichloroethene	57		1.0	0.46	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	3.1		1.0	0.51	ug/L	1		8260D	Total/NA
Vinyl chloride	630	F1	20	9.0	ug/L	20		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: 240-244347-1

Client Sample ID: TRIP BLANK_111

Lab Sample ID: 240-244347-1

Date Collected: 02/27/26 00:00

Matrix: Water

Date Received: 02/28/26 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			03/05/26 02:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/05/26 02:35	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/05/26 02:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/05/26 02:35	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/05/26 02:35	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/05/26 02:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137		03/05/26 02:35	1
4-Bromofluorobenzene (Surr)	100		56 - 136		03/05/26 02:35	1
Toluene-d8 (Surr)	91		78 - 122		03/05/26 02:35	1
Dibromofluoromethane (Surr)	102		73 - 120		03/05/26 02:35	1

Client Sample Results

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

Job ID: 240-244347-1

Client Sample ID: MW-51_022726

Lab Sample ID: 240-244347-2

Date Collected: 02/27/26 10:45

Matrix: Water

Date Received: 02/28/26 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		2.0	0.86	ug/L			03/05/26 14:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 136					03/05/26 14:01	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			03/05/26 02:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/05/26 02:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/05/26 02:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/05/26 02:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/05/26 02:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/05/26 02:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137					03/05/26 02:58	1
4-Bromofluorobenzene (Surr)	103		56 - 136					03/05/26 02:58	1
Toluene-d8 (Surr)	92		78 - 122					03/05/26 02:58	1
Dibromofluoromethane (Surr)	103		73 - 120					03/05/26 02:58	1

Client Sample Results

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

Job ID: 240-244347-1

Client Sample ID: PW-16-02_022726

Lab Sample ID: 240-244347-3

Date Collected: 02/27/26 11:50

Matrix: Water

Date Received: 02/28/26 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	0.93	J	2.0	0.86	ug/L			03/05/26 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 136					03/05/26 14:24	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			03/05/26 03:21	1
cis-1,2-Dichloroethene	57		1.0	0.46	ug/L			03/05/26 03:21	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/05/26 03:21	1
trans-1,2-Dichloroethene	3.1		1.0	0.51	ug/L			03/05/26 03:21	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/05/26 03:21	1
Vinyl chloride	630	F1	20	9.0	ug/L			03/05/26 12:46	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137					03/05/26 03:21	1
1,2-Dichloroethane-d4 (Surr)	108		62 - 137					03/05/26 12:46	20
4-Bromofluorobenzene (Surr)	101		56 - 136					03/05/26 03:21	1
4-Bromofluorobenzene (Surr)	99		56 - 136					03/05/26 12:46	20
Toluene-d8 (Surr)	93		78 - 122					03/05/26 03:21	1
Toluene-d8 (Surr)	92		78 - 122					03/05/26 12:46	20
Dibromofluoromethane (Surr)	103		73 - 120					03/05/26 03:21	1
Dibromofluoromethane (Surr)	105		73 - 120					03/05/26 12:46	20

Surrogate Summary

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

Job ID: 240-244347-1

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)
240-244346-B-2 MS	Matrix Spike	93	105	91	91
240-244346-B-2 MSD	Matrix Spike Duplicate	96	106	94	92
240-244347-1	TRIP BLANK_111	105	100	91	102
240-244347-2	MW-51_022726	106	103	92	103
240-244347-3	PW-16-02_022726	107	101	93	103
240-244347-3	PW-16-02_022726	108	99	92	105
240-244347-3 MS	PW-16-02_022726	95	110	94	94
240-244347-3 MSD	PW-16-02_022726	95	108	93	94
LCS 240-692383/4	Lab Control Sample	96	110	97	93
LCS 240-692453/4	Lab Control Sample	96	110	97	92
MB 240-692383/8	Method Blank	108	100	92	103
MB 240-692453/8	Method Blank	110	101	92	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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (64-136)
240-244346-E-2 MS	Matrix Spike	104
240-244346-E-2 MSD	Matrix Spike Duplicate	107
240-244347-2	MW-51_022726	105
240-244347-3	PW-16-02_022726	108
LCS 240-692435/3	Lab Control Sample	99
MB 240-692435/5	Method Blank	99

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-244347-1

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

Lab Sample ID: MB 240-692383/8

Matrix: Water

Analysis Batch: 692383

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			03/04/26 23:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/26 23:06	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/26 23:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/26 23:06	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/26 23:06	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/26 23:06	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	108		62 - 137		03/04/26 23:06	1
4-Bromofluorobenzene (Surr)	100		56 - 136		03/04/26 23:06	1
Toluene-d8 (Surr)	92		78 - 122		03/04/26 23:06	1
Dibromofluoromethane (Surr)	103		73 - 120		03/04/26 23:06	1

Lab Sample ID: LCS 240-692383/4

Matrix: Water

Analysis Batch: 692383

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	24.9		ug/L		100	77 - 123
Tetrachloroethene	25.0	22.1		ug/L		88	76 - 123
trans-1,2-Dichloroethene	25.0	22.4		ug/L		90	75 - 124
Trichloroethene	25.0	23.4		ug/L		94	70 - 122
Vinyl chloride	12.5	9.89		ug/L		79	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	110		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	93		73 - 120

Lab Sample ID: 240-244346-B-2 MS

Matrix: Water

Analysis Batch: 692383

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
cis-1,2-Dichloroethene	1.0	U	25.0	23.9		ug/L		96	66 - 128
Tetrachloroethene	1.0	U	25.0	19.7		ug/L		79	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	20.8		ug/L		83	56 - 136
Trichloroethene	1.0	U	25.0	21.6		ug/L		86	61 - 124
Vinyl chloride	1.0	U	12.5	9.52		ug/L		76	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	105		56 - 136
Toluene-d8 (Surr)	91		78 - 122

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QC Sample Results

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

Job ID: 240-244347-1

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

Lab Sample ID: 240-244346-B-2 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 692383

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	91		73 - 120

Lab Sample ID: 240-244346-B-2 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 692383

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,1-Dichloroethene	1.0	U	25.0	24.6		ug/L		98	56 - 135	8	26
cis-1,2-Dichloroethene	1.0	U	25.0	24.9		ug/L		100	66 - 128	4	14
Tetrachloroethene	1.0	U	25.0	22.3		ug/L		89	62 - 131	12	20
trans-1,2-Dichloroethene	1.0	U	25.0	22.7		ug/L		91	56 - 136	9	15
Trichloroethene	1.0	U	25.0	23.3		ug/L		93	61 - 124	7	15
Vinyl chloride	1.0	U	12.5	9.76		ug/L		78	43 - 157	2	24

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	106		56 - 136
Toluene-d8 (Surr)	94		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

Lab Sample ID: MB 240-692453/8

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 692453

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			03/05/26 12:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/05/26 12:00	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/05/26 12:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/05/26 12:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/05/26 12:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/05/26 12:00	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	110		62 - 137		03/05/26 12:00	1
4-Bromofluorobenzene (Surr)	101		56 - 136		03/05/26 12:00	1
Toluene-d8 (Surr)	92		78 - 122		03/05/26 12:00	1
Dibromofluoromethane (Surr)	106		73 - 120		03/05/26 12:00	1

Lab Sample ID: LCS 240-692453/4

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 692453

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
1,1-Dichloroethene	25.0	26.0		ug/L		104	63 - 134
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	77 - 123
Tetrachloroethene	25.0	24.4		ug/L		98	76 - 123
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	75 - 124
Trichloroethene	25.0	24.2		ug/L		97	70 - 122

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QC Sample Results

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

Job ID: 240-244347-1

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

Lab Sample ID: LCS 240-692453/4

Matrix: Water

Analysis Batch: 692453

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	12.5	10.3		ug/L		82	60 - 144
Surrogate							
	%Recovery	Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	96		62 - 137				
4-Bromofluorobenzene (Surr)	110		56 - 136				
Toluene-d8 (Surr)	97		78 - 122				
Dibromofluoromethane (Surr)	92		73 - 120				

Lab Sample ID: 240-244347-3 MS

Matrix: Water

Analysis Batch: 692453

Client Sample ID: PW-16-02_022726

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	630	F1	250	641	F1	ug/L		4	43 - 157
Surrogate									
	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	95		62 - 137						
4-Bromofluorobenzene (Surr)	110		56 - 136						
Toluene-d8 (Surr)	94		78 - 122						
Dibromofluoromethane (Surr)	94		73 - 120						

Lab Sample ID: 240-244347-3 MSD

Matrix: Water

Analysis Batch: 692453

Client Sample ID: PW-16-02_022726

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl chloride	630	F1	250	684	F1	ug/L		21	43 - 157	6	24
Surrogate											
	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	95		62 - 137								
4-Bromofluorobenzene (Surr)	108		56 - 136								
Toluene-d8 (Surr)	93		78 - 122								
Dibromofluoromethane (Surr)	94		73 - 120								

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

Lab Sample ID: MB 240-692435/5

Matrix: Water

Analysis Batch: 692435

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			03/05/26 11:40	1
Surrogate									
	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	99		64 - 136						

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-244347-1

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

Lab Sample ID: LCS 240-692435/3

Matrix: Water

Analysis Batch: 692435

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	8.20		ug/L		82	68 - 120
Surrogate		%Recovery	Qualifier				Limits
1,2-Dichloroethane-d4 (Surr)		99					64 - 136

Lab Sample ID: 240-244346-E-2 MS

Matrix: Water

Analysis Batch: 692435

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	9.50		ug/L		95	45 - 145
Surrogate		%Recovery			Qualifier				Limits
1,2-Dichloroethane-d4 (Surr)		104							64 - 136

Lab Sample ID: 240-244346-E-2 MSD

Matrix: Water

Analysis Batch: 692435

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
1,4-Dioxane	2.0	U	10.0	9.79		ug/L		98	45 - 145	3	19
Surrogate		%Recovery			Qualifier						
1,2-Dichloroethane-d4 (Surr)		107									

QC Association Summary

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

Job ID: 240-244347-1

GC/MS VOA

Analysis Batch: 692383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-244347-1	TRIP BLANK_111	Total/NA	Water	8260D	
240-244347-2	MW-51_022726	Total/NA	Water	8260D	
240-244347-3	PW-16-02_022726	Total/NA	Water	8260D	
MB 240-692383/8	Method Blank	Total/NA	Water	8260D	
LCS 240-692383/4	Lab Control Sample	Total/NA	Water	8260D	
240-244346-B-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-244346-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 692435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-244347-2	MW-51_022726	Total/NA	Water	8260D SIM	
240-244347-3	PW-16-02_022726	Total/NA	Water	8260D SIM	
MB 240-692435/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-692435/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-244346-E-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-244346-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 692453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-244347-3	PW-16-02_022726	Total/NA	Water	8260D	
MB 240-692453/8	Method Blank	Total/NA	Water	8260D	
LCS 240-692453/4	Lab Control Sample	Total/NA	Water	8260D	
240-244347-3 MS	PW-16-02_022726	Total/NA	Water	8260D	
240-244347-3 MSD	PW-16-02_022726	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-244347-1

Client Sample ID: TRIP BLANK_111

Lab Sample ID: 240-244347-1

Date Collected: 02/27/26 00:00

Matrix: Water

Date Received: 02/28/26 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	692383	LEE	EET CLE	03/05/26 02:35

Client Sample ID: MW-51_022726

Lab Sample ID: 240-244347-2

Date Collected: 02/27/26 10:45

Matrix: Water

Date Received: 02/28/26 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	692383	LEE	EET CLE	03/05/26 02:58
Total/NA	Analysis	8260D SIM		1	692435	SAM	EET CLE	03/05/26 14:01

Client Sample ID: PW-16-02_022726

Lab Sample ID: 240-244347-3

Date Collected: 02/27/26 11:50

Matrix: Water

Date Received: 02/28/26 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	692383	LEE	EET CLE	03/05/26 03:21
Total/NA	Analysis	8260D		20	692453	LEE	EET CLE	03/05/26 12:46
Total/NA	Analysis	8260D SIM		1	692435	SAM	EET CLE	03/05/26 14:24

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: 240-244347-1

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
Illinois	NELAP	200004	08-31-26
Iowa	State	421	06-01-27
Kansas	NELAP	E-10336	01-31-26 *
Kentucky (WW)	State	KY98016	12-31-26
Michigan	State	9135	01-10-27
Minnesota	NELAP	039-999-348	12-31-26
New Hampshire	NELAP	2250	09-30-26
New Jersey	NELAP	OH001	06-30-26
New York	NELAP	10975	04-01-26
Oregon	NELAP	4062	02-27-26 *
Pennsylvania	NELAP	68-00340	08-31-26
Texas	NELAP	T104704517	08-31-26
USDA	US Federal Programs	525-24-5-34740	01-05-27
Virginia	NELAP	460175	09-30-26
West Virginia DEP	State	210	03-31-26
Wisconsin	State	399167560	08-31-26


* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Chain of Custody Record

14/17

TestAmerica Laboratory location: Farmington Hills — 3885 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: Kaylee DeRoos			TAT if different from below			Filtered Sample (V/N) Composite-C/Grab-G 1,1-DCE 8260D cis-1,2-DCE 8260D Trans-1,2-DCE 8260D PCE 8260D TCE 8260D Vinyl Chloride 8260D 1,4-Dioxane 8260D SIM			Walk-in client						
Project Name: Ford LTP		Method of Shipment/Carrier:			<input type="checkbox"/> 3 weeks <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day						Lab sampling						
Project Number: 30309849.401.04		Shipping/Tracking No:									Job/SDG No:						
PO # US3460029524											Sample Specific Notes / Special Instructions:						
Sample Identification		Sample Date	Sample Time	Matrix					Containers & Preservatives								
				Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH	Unpres	Other:	
TRIP BLANK_111	---	---		1													1 Trip Blank
MW-51_022726	2/27/26	1045		6													3 VOAs for 8260D 3 VOAs for 8260D SIM
PW-16-02_022726	↓	1150		6													
ICD 2/26/26																	
 240-244347 COC																	
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: On site																	
Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728 Level IV Reporting requested.																	
Relinquished by: <i>Megan Meckley</i>	Company: Arcadis	Date/Time: 2/27/26/1300	Received by: <i>Novi (old storage)</i>	Company: Arcadis	Date/Time: 2/27/26/1300												
Relinquished by: <i>Lottreyer</i>	Company: ARCADIS	Date/Time: 2/27/26 1509	Received by: <i>Lottreyer</i>	Company: <i>EBDA</i>	Date/Time: 2/27/26 1500												
Relinquished by: <i>Lottreyer</i>	Company: <i>EBDA</i>	Date/Time: 2/27/26 1500	Received in Laboratory by: <i>JLH</i>	Company: <i>EL</i>	Date/Time: 2/28/26 0800												

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Eurofins - Cleveland Sample Receipt Form/Narrative Login # _____

Client Acad's Site Name _____ Cooler unpacked by: JC
 Barberton Facility

Cooler Received on 2-24-26 Opened on 3-2-26
 FedEx 1st Grd Exp UPS PAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours, Drop-off Date/Time _____ Storage Location _____
 Eurofins Cooler # _____ Foam Box Client Cooler Box Other _____
 Packing material used Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Water Blue Ice Dry Ice Water None
 1 Cooler temperature upon receipt _____ See Multiple Cooler Form

IR GUN # _____ (CF) _____ °C Observed Cooler Temp _____ °C Corrected Cooler Temp _____ °C

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

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes No No
 -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 (LEHg/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)? 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# 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 # _____ 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
					Lot Number
TRIP BLANK_111	240-244347-A-1	Voa Vial 40ml - Hydrochloric Acid			
MW-51_022726	240-244347-A-2	Voa Vial 40ml - Hydrochloric Acid			
MW-51_022726	240-244347-B-2	Voa Vial 40ml - Hydrochloric Acid			
MW-51_022726	240-244347-C-2	Voa Vial 40ml - Hydrochloric Acid			
MW-51_022726	240-244347-D-2	Voa Vial 40ml - Hydrochloric Acid			
MW-51_022726	240-244347-E-2	Voa Vial 40ml - Hydrochloric Acid			
MW-51_022726	240-244347-F-2	Voa Vial 40ml - Hydrochloric Acid			
PW-16-02_022726	240-244347-A-3	Voa Vial 40ml - Hydrochloric Acid			
PW-16-02_022726	240-244347-B-3	Voa Vial 40ml - Hydrochloric Acid			
PW-16-02_022726	240-244347-C-3	Voa Vial 40ml - Hydrochloric Acid			
PW-16-02_022726	240-244347-D-3	Voa Vial 40ml - Hydrochloric Acid			
PW-16-02_022726	240-244347-E-3	Voa Vial 40ml - Hydrochloric Acid			
PW-16-02_022726	240-244347-F-3	Voa Vial 40ml - Hydrochloric Acid			

DATA VERIFICATION REPORT



March 09, 2026

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: 30309849.401.04
Event Specific Scope of Work References: Sample COC
Laboratory: Eurofins Environment Testing LLC - Cleveland
Laboratory submittal: 244347-1
Sample date: 2026-02-27
Report received by CADENA: 2026-03-09
Initial Data Verification completed by CADENA: 2026-03-09
Number of Samples:3
Sample Matrices:Water
Test Categories:GCMS VOC

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

The following minor QC exceptions or missing information were noted:

MSD - GCMS VOC sample -003 MS and MSD recovery outliers were outliers with the recovery biased low for the following analyte: VINYL CHLORIDE. Client sample results for this analyte should be considered to be estimated and qualified with a J flag if detected.

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

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

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.

Qualified Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 244347-1

Sample Name: PW-16-02_022726

Lab Sample ID: 2402443473

Sample Date: 2/27/2026

Analyte	Cas No.	Report		Units	Valid Qualifier
		Result	Limit		
GC/MS VOC					
<u>OSW-8260D</u>					
Vinyl chloride	75-01-4	630	20	ug/l	J

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 244347-1

Sample Name: TRIP BLANK_111	MW-51_022726	PW-16-02_022726
Lab Sample ID: 2402443471	2402443472	2402443473
Sample Date: 2/27/2026	2/27/2026	2/27/2026

Analyte	Cas No.	TRIP BLANK_111				MW-51_022726				PW-16-02_022726			
		Report	Valid	Report	Valid	Report	Valid	Report	Valid				
		Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	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	---	ND	1.0	ug/l	---	57	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	---	3.1	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	---	630	20	ug/l	J

OSW-8260DSIM

1,4-Dioxane	123-91-1					2.0	2.0	ug/l	---	0.93	2.0	ug/l	J
-------------	----------	--	--	--	--	-----	-----	------	-----	------	-----	------	---