PREPARED FOR

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

Generated 5/19/2025 6:59:54 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-224193-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 5/19/2025 6:59:54 AM

Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)966-9783 Client: Arcadis US Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-224193-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-224193-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA	
Qualifier	Qualifier Description

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

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) Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML 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) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

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Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-224193-1 Eurofins Cleveland

Job Narrative 240-224193-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
 situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
 specified in the method.
- · Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/10/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6°C and 1.0°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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Job ID: 240-224193-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-224193-1

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: 240-224193-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-224193-1	TRIP BLANK_126	Water	05/08/25 00:00	05/10/25 08:00
240-224193-2	MW-138S_050825	Water	05/08/25 09:55	05/10/25 08:00
240-224193-3	MW-106S_050825	Water	05/08/25 14:15	05/10/25 08:00

Detection Summary

Client: Arcadis US Inc. Job ID: 240-224193-1 Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_126 Lab Sample ID: 240-224193-1

No Detections.

Client Sample ID: MW-138S_050825 Lab Sample ID: 240-224193-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Vinyl chloride	0.83 J	1.0	0.45 ug/L		8260D	Total/NA

Lab Sample ID: 240-224193-3 **Client Sample ID: MW-106S_050825**

No Detections.

Client: Arcadis US Inc. Job ID: 240-224193-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_126

Lab Sample ID: 240-224193-1 Date Collected: 05/08/25 00:00

Matrix: Water

Date Received: 05/10/25 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/16/25 13:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/16/25 13:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/16/25 13:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/16/25 13:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/16/25 13:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/16/25 13:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137			_		05/16/25 13:32	1
4-Bromofluorobenzene (Surr)	79		56 ₋ 136					05/16/25 13:32	1
Toluene-d8 (Surr)	94		78 - 122					05/16/25 13:32	1
Dibromofluoromethane (Surr)	103		73 - 120					05/16/25 13:32	1

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Client: Arcadis US Inc. Job ID: 240-224193-1

Project/Site: Ford LTP

Client Sample ID: MW-138S_050825

Date Collected: 05/08/25 09:55 Date Received: 05/10/25 08:00

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Lab Sample ID: 240-224193-2

05/16/25 19:12

05/16/25 19:12

05/16/25 19:12

05/16/25 19:12

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/15/25 03:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		68 - 127			_		05/15/25 03:58	1
- Method: SW846 8260D - Volatile	e Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/16/25 19:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/16/25 19:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/16/25 19:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/16/25 19:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/16/25 19:12	1
Vinyl chloride	0.83	J	1.0	0.45	ug/L			05/16/25 19:12	1

62 - 137

56 - 136

78 - 122

73 - 120

99

77

90

104

Client: Arcadis US Inc. Job ID: 240-224193-1

Project/Site: Ford LTP

Client Sample ID: MW-106S_050825

Date Collected: 05/08/25 14:15 Date Received: 05/10/25 08:00 Lab Sample ID: 240-224193-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/15/25 04:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		68 - 127			-		05/15/25 04:21	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/16/25 19:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/16/25 19:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/16/25 19:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/16/25 19:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/16/25 19:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/16/25 19:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137			-		05/16/25 19:36	1
4-Bromofluorobenzene (Surr)	79		56 ₋ 136					05/16/25 19:36	1
Toluene-d8 (Surr)	94		78 - 122					05/16/25 19:36	1
Dibromofluoromethane (Surr)	105		73 - 120					05/16/25 19:36	1

Surrogate Summary

Client: Arcadis US Inc. Job ID: 240-224193-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-224193-1	TRIP BLANK_126	99	79	94	103
240-224193-2	MW-138S_050825	99	77	90	104
240-224193-3	MW-106S_050825	103	79	94	105
240-224193-3 MS	MW-106S_050825	94	87	93	96
240-224193-3 MSD	MW-106S_050825	94	86	94	99
LCS 240-656300/4	Lab Control Sample	90	86	92	94
MB 240-656300/8	Method Blank	99	79	95	101

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)

Prep Type: Total/NA **Matrix: Water**

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-224193-2	MW-138S_050825	78	
240-224193-3	MW-106S_050825	80	
240-224193-3 MS	MW-106S_050825	77	
240-224193-3 MSD	MW-106S_050825	70	
LCS 240-656033/3	Lab Control Sample	78	
MB 240-656033/5	Method Blank	76	

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

Client: Arcadis US Inc. Job ID: 240-224193-1 Project/Site: Ford LTP

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

Lab Sample ID: MB 240-656300/8

Matrix: Water

Analysis Batch: 656300

Client Sample ID: Method Blank

Prep Type: Total/NA

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/16/25 12:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/16/25 12:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/16/25 12:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/16/25 12:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/16/25 12:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/16/25 12:43	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137		05/16/25 12:43	1
4-Bromofluorobenzene (Surr)	79		56 - 136		05/16/25 12:43	1
Toluene-d8 (Surr)	95		78 - 122		05/16/25 12:43	1
Dibromofluoromethane (Surr)	101		73 - 120		05/16/25 12:43	1

Lab Sample ID: LCS 240-656300/4

Matrix: Water

Analysis Batch: 656300

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	12.5	11.5		ug/L		92	63 - 134	
cis-1,2-Dichloroethene	12.5	11.6		ug/L		93	77 - 123	
Tetrachloroethene	12.5	12.4		ug/L		99	76 - 123	
trans-1,2-Dichloroethene	12.5	11.6		ug/L		93	75 - 124	
Trichloroethene	12.5	12.0		ug/L		96	70 - 122	
Vinyl chloride	12.5	9.88		ug/L		79	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	86		56 ₋ 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	94		73 - 120

Lab Sample ID: 240-224193-3 MS

Matrix: Water

Analysis Batch: 656300

Client Sample ID: MW-106S_050825 **Prep Type: Total/NA**

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	12.5	10.9		ug/L		87	56 - 135
cis-1,2-Dichloroethene	1.0	U	12.5	10.5		ug/L		84	66 - 128
Tetrachloroethene	1.0	U	12.5	11.1		ug/L		89	62 - 131
trans-1,2-Dichloroethene	1.0	U	12.5	10.2		ug/L		81	56 - 136
Trichloroethene	1.0	U	12.5	10.7		ug/L		85	61 - 124
Vinyl chloride	1.0	U	12.5	10.1		ug/L		81	43 - 157

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	87		56 - 136
Toluene-d8 (Surr)	93		78 - 122

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5/19/2025

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

Job ID: 240-224193-1

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

Lab Sample ID: 240-224193-3 MS Client Sample ID: MW-106S_050825

Matrix: Water

Analysis Batch: 656300

Prep Type: Total/NA

MS MS Surrogate %Recovery Qualifier

Limits Dibromofluoromethane (Surr) 96 73 - 120

Lab Sample ID: 240-224193-3 MSD Client Sample ID: MW-106S 050825

Matrix: Water

Analysis Batch: 656300

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	12.5	11.1		ug/L		89	56 - 135	2	26
cis-1,2-Dichloroethene	1.0	U	12.5	10.9		ug/L		87	66 - 128	4	14
Tetrachloroethene	1.0	U	12.5	10.5		ug/L		84	62 - 131	5	20
trans-1,2-Dichloroethene	1.0	U	12.5	10.7		ug/L		85	56 - 136	5	15
Trichloroethene	1.0	U	12.5	10.5		ug/L		84	61 - 124	2	15
Vinyl chloride	1.0	U	12.5	10.1		ug/L		81	43 - 157	0	24

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 94 62 - 137 4-Bromofluorobenzene (Surr) 86 56 - 136 Toluene-d8 (Surr) 94 78 - 122 Dibromofluoromethane (Surr) 99 73 - 120

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

Matrix: Water

Analysis Batch: 656033

Lab Sample ID: MB 240-656033/5

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

75 - 121

89

Prep Type: Total/NA

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 05/15/25 01:37 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 76 68 - 127 05/15/25 01:37

Lab Sample ID: LCS 240-656033/3

Matrix: Water

Analysis Batch: 656033 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits

1,4-Dioxane 10.0 8.86 ug/L LCS LCS %Recovery Qualifier Surrogate Limits

78

MR MR

Lab Sample ID: 240-224193-3 MS Client Sample ID: MW-106S 050825

68 - 127

Matrix: Water

Analysis Batch: 656033

1,2-Dichloroethane-d4 (Surr)

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 10.0 ug/L 100 20 - 180

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Prep Type: Total/NA

QC Sample Results

Client: Arcadis US Inc. Job ID: 240-224193-1

Project/Site: Ford LTP Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits

Surroyate	78INECOVELY	Qualifici	
1,2-Dichloroethane-d4 (Surr)	77		
_			

Lab Sample ID: 240-224193-3 MSD

Matrix: Water

Client Sample ID: MW-106S_050825

Prep Type: Total/NA

Analysis Batch: 656033 RPD Sample Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Limits RPD Limit Unit D %Rec 2.0 U 1,4-Dioxane 10.0 10.5 105 20 - 180 20 ug/L 4

68 - 127

MSD MSD

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 70 68 - 127

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-224193-1

GC/MS VOA

Analysis Batch: 656033

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224193-2	MW-138S_050825	Total/NA	Water	8260D SIM	
240-224193-3	MW-106S_050825	Total/NA	Water	8260D SIM	
MB 240-656033/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-656033/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-224193-3 MS	MW-106S_050825	Total/NA	Water	8260D SIM	
240-224193-3 MSD	MW-106S_050825	Total/NA	Water	8260D SIM	

Analysis Batch: 656300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224193-1	TRIP BLANK_126	Total/NA	Water	8260D	
240-224193-2	MW-138S_050825	Total/NA	Water	8260D	
240-224193-3	MW-106S_050825	Total/NA	Water	8260D	
MB 240-656300/8	Method Blank	Total/NA	Water	8260D	
LCS 240-656300/4	Lab Control Sample	Total/NA	Water	8260D	
240-224193-3 MS	MW-106S_050825	Total/NA	Water	8260D	
240-224193-3 MSD	MW-106S_050825	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-224193-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_126

Lab Sample ID: 240-224193-1 Date Collected: 05/08/25 00:00 **Matrix: Water**

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 8260D EET CLE 05/16/25 13:32 Total/NA Analysis 656300 R5XG

Client Sample ID: MW-138S_050825 Lab Sample ID: 240-224193-2

Date Collected: 05/08/25 09:55 **Matrix: Water**

Date Received: 05/10/25 08:00

Date Received: 05/10/25 08:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst or Analyzed Lab Total/NA 8260D 656300 R5XG EET CLE 05/16/25 19:12 Analysis Total/NA Analysis 8260D SIM R5XG **EET CLE** 05/15/25 03:58 1 656033

Client Sample ID: MW-106S_050825 Lab Sample ID: 240-224193-3

Date Collected: 05/08/25 14:15 **Matrix: Water**

Date Received: 05/10/25 08:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** or Analyzed Lab 05/16/25 19:36 Total/NA 8260D R5XG EET CLE Analysis 656300 8260D SIM 656033 R5XG 05/15/25 04:21 Total/NA Analysis EET CLE 1

Laboratory References:

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

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Accreditation/Certification Summary

Client: Arcadis US Inc. Job ID: 240-224193-1 Project/Site: Ford LTP

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
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	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-01-26
North Dakota	State	R-244	02-27-26
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25



Chain of Custody Record

5/13

TestAmeric	CO
THE LEADER IN ENVIRONMENTAL TI	STING

TestA	merica Labora	tory location:	Farmingt	on Hills	- 38855 H	ills Te	ch Drive	, Suite	600, F	armingto	on Hil	lls 4833	1					-		TH	HE LEADER IN ENVIRONMENTAL TE
Client Contact	Regulat	ory program:		┌ DW	1	NPD	ES	Г	RCRA	Γ	Oth	er			nig frances ya fasare.	months of these					
Company Name: Arcadis	Client Project	Manager: Mega	n Meckley	,	Sit	te Con	act: Sar	manth	a Szpai	chler		l	.ab C	ntact	Mike I	DelMon	ico				TestAmerica Laboratories. COC No:
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240			Те	lenhor	e: 248-9	994-22	40			-	eleph	one: 3	30-497-	9396					
City/State/Zip: Novi, MI, 48377				-			ysis Tur			- 1		ًا لِــــ				Anaiy	1000				1 of 1 COCs For lab use only
Phone: 248-994-2240	Email: megan.												Т	T	Т		1	П	\neg	\top	
Project Name: Ford LTP	Sampler Name	Nowh	Do	han	e M	Tirdin 10 da		below 3 we 2 we													Walk-in client Lab sampling
Project Number: 30251157.401.04	Method of Ship	ment/Carrier:					Γ*	l we	ck	2	٧			۱			¥.				
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				Matrix	<u>.</u> 2		tainers &			s	Composite=C / Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE	PCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				Sample Specific Notes /
Sample Identification	Sample Date	Sample Time	Air	Sediment	Other:	HNO3	HCI NaOH	ZaAci	Unpres Other:	FILE	S	=	cis-	Tra	2 5	. į	4.			\perp	Special Instructions:
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Possible Hazard Identification Non-Hazard lammable sin Irritant	Poiso	ın B	Jnknown	-			e Dispor Return t			be asses					d longe			h) lonths	T		
Special Instructions/QC Requirements & Comments:	Beaco		Row		8- 9	_	U11					,									
Submit all results through Cadena at jtomalia@cadenaco.c Level IV Reporting requested.	_		3/9/2			<u>٠</u> ٦	<i>0</i> -1	<i>د</i> ۱۰	ν,												
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11/			-	-				7		7		1									

Exp Waypou Eurofins Courier

Drop-off Date, Į, Storage Location

Eurofins Cooler# Receipt After-hours Packing material used COOLANT ed Bubble Wrap
Wet Ice Blue I Foam Box roan. Client Cooler) Plastic Bag Вoх None Other Other

Blue Ice Dry Ice Water See Multiple Cooler Form None

Cooler temperature upon receipt R GUN# ß °C) Observed Cooler Temp.

Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Corrected Cooler Temp ď

Ŋ

-Were the seals on the outside of the cooler(s) signed & dated?
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Ϋ́es

Shippers packing slip attached to the cooler(s)? -Were tamper/custody seals intact and uncompromised?

0, 0, 4 0 Did custody papers accompany the sample(s)?

Were the custody papers relinquished & signed in the appropriate place?

Was/were the person(s) who collected the samples clearly identified on the COC?

Did all bottles arrive in good condition (Unbroken)?

Could all bottle labels (ID/Date/Time) be reconciled with the COC?

For each sample, does the COC specify preservatives (YN), # of containers (YN), ar

sample type of grab/comp(Y/N);

Z

z

Z

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Oil and Grease TOC

VOAs

Receiving: checked for pH by Tests that are not

Sufficient quantity received to perform indicated analyses? Were correct bottle(s) used for the test(s) indicated?

Are these work share samples and all listed on the COC?

If yes, Questions 13-17 have been checked at the originating laboratory

3 Were all preserved sample(s) at the correct pH upon receipt?

NO NO NO

pH Strap Lot# HC457151

Page 20 of 22

Ν×

Were air bubbles >6 mm in any VOA vials?

15 14 Were VOAs on the COC?

Was a LL Hg or Me Hg trip blank present?

Contacted PM

Was a VOA trip blank present in the cooler(s)? Larger than this.
Trip Blank Lot #

Date ğ via Verbal Voice Mail Other

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Labeled by Labels Venfied by

Sample(s) 19 SAMPLE CONDITION

Sample(s) Sample(s) were received after the recommended holding time had expired were received with bubble >6 mm in diameter (Notify PM) were received in a broken container

Sample(s)

20. SAMPLE PRESERVATION

Time preserved Preservative(s) added/Lot number(s) were further preserved in the laboratory

VOA Sample Preservation - Date/Time VOAs Frozen.

See Temperature Evoursion Form	T 202					
Wet Ice Blue Ice Dry Ice Water None			IR GUN #*	Box Other	Client B	5
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Box Ofher	Client P	33
Wellce Bluelce Drylce Water None			IR GUN #*	Box Other	Client I	۳.
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Wet Ice Blue Ice Dry Ice Water None	9.0	01	IR GUN #: 10	Box Other	Client	
Coolant (Circle)	Corrected Temp °C	Observed Temp °C	IR Gun # (Circle)	cription e)	Cooler Description (Circle)	၇
1,000	ulubie Gooler Form	ruioiliis - cievelaliu saliibie receipt multiple coolei Follii	- Lai Olliba - Olevelai I			

Login#

5/10/2025

Login Container Summary Report

1193

5/19/2025

240-224193

Temperature readings

	Voa Viai 40mi - Hydrochioric Acid	240-224193-F-3 MS Voa Viai 40mi - Hydrochioric Acid	C780C0_S901-MW
	Voa Vial 40ml - Hydrochloric Acid	240-224193-F-3	MW-106S_050825
Annual Control of the	Voa Vial 40ml - Hydrochloric Acid	240-224193-E-3 MSD	MW-106S_050825
	Voa Vial 40ml - Hydrochloric Acid	240-224193-E-3 MS	MW-106S_050825
de constitue de co	Voa Vial 40ml - Hydrochloric Acid	240-224193-E-3	MW-106S_050825
	Voa Vial 40ml - Hydrochloric Acid	240-224193-D-3 MSD	MW-106S_050825
***************************************	Voa Vial 40ml - Hydrochloric Acid	240-224193-D-3 MS	MW-106S_050825
	Voa Vial 40ml - Hydrochloric Acid	240-224193-D-3	MW-106S_050825
	Voa Vial 40ml - Hydrochloric Acid	240-224193-C-3 MSD	MW-106S_050825
	Voa Vial 40ml - Hydrochloric Acid	240-224193-C-3 MS	MW-106S_050825
	Voa Vial 40ml - Hydrochloric Acid	240-224193-C-3	MW-106S_050825
	Voa Vial 40ml - Hydrochloric Acid	240-224193-B-3 MSD	MW-106S_050825
And the second s	Voa Vial 40ml - Hydrochloric Acid	240-224193-B-3 MS	MW-106S_050825
Annual management of the control of	Voa Vial 40ml - Hydrochloric Acid	240-224193-B-3	MW-106S_050825
	Voa Vial 40ml - Hydrochloric Acid	240-224193-A-3 MSD	MW-106S_050825
	Voa Vial 40ml - Hydrochloric Acid	240-224193-A-3 MS	MW-106S_050825
The state of the s	Voa Vial 40ml - Hydrochloric Acid	240-224193-A-3	MW-106S_050825
	Voa Vial 40ml - Hydrochloric Acid	240-224193-F-2	MW-138S_050825
	Voa Vial 40ml - Hydrochloric Acıd	240-224193-E-2	MW-138S_050825
	Voa Vial 40ml - Hydrochloric Acid	240-224193-D-2	MW-138S_050825
	Voa Vial 40ml - Hydrochloric Acid	240-224193-C-2	MW-138S_050825
	Voa Vial 40ml - Hydrochloric Acid	240-224193-B-2	MW-138S_050825
***************************************	Voa Vial 40ml - Hydrochloric Acıd	240-224193-A-2	MW-138S_050825
	Voa Vial 40ml - Hydrochloric Acid	240-224193-A-1	TRIP BLANK_126
pH Temp Added Lot Number	Container Type	<u>Lab ID</u>	Client Sample ID

DATA VERIFICATION REPORT



May 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 (vapor 301.04) Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 224193-1 Sample date: 2025-05-08

Report received by CADENA: 2025-05-19

Initial Data Verification completed by CADENA: 2025-05-19

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, 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 $48108\ 517\text{-}819\text{-}0356$

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 224193-1

Sa	ample Name:	TRIP BLA	NK_126	6		MW-138	3S_0508	25		MW-106	25		
La	ab Sample ID:	2402241	1931			240224	1932			240224	1933		
Sa	ample Date:	5/8/202	5			5/8/202	25			5/8/202	5		
			Report		Valid		Report		Valid		Report		Valid
Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC													
OSW-8260D													
1,1-Dichloroethene 7	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
cis-1,2-Dichloroethene 1	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
Tetrachloroethene 1	l27-18-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
trans-1,2-Dichloroethene 1	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
Trichloroethene 7	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
Vinyl chloride 7	75-01-4	ND	1.0	ug/l		0.83	1.0	ug/l	J	ND	1.0	ug/l	
OSW-8260DSIM													
1,4-Dioxane 1	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-224193-1

CADENA Verification Report: 2025-05-19

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 59683R Review Level: Tier III Project: 30251157.401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-224193-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Ana	lysis
Sample ID	Lab ID	Wallix	Collection Date	raieiii Saiiipie	voc	VOC SIM
TRIP BLANK_126	240-224193-1	Water	05/08/2025		Х	
MW-138S_050825	240-224193-2	Water	05/08/2025		X	X
MW-106S_050825	240-224193-3	Water	05/08/2025		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Rep	orted	Perfori Accep		Not
	No	Yes	No	Yes	Required
Sample receipt condition		X		X	
2. Requested analyses and sample results		X		Х	
Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
9. Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable, and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation			'	'	
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Febin J S

SIGNATURE:

DATE: June 17, 2025

PEER REVIEW: Andrew Korycinski

DATE: June 22, 2025

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

5/13

TestAmeric	CO
THE LEADER IN ENVIRONMENTAL TI	STING

TestA	merica Labora	tory location:	Farmingt	on Hills	- 38855 H	ills Te	ch Drive	, Suite	600, F	armingto	on Hil	lls 4833	1					-		TH	HE LEADER IN ENVIRONMENTAL TE
Client Contact	Regulat	ory program:		┌ DW	1	NPD	ES	Г	RCRA	Γ	Oth	er			nig frances ya fasare.	months of these					
Company Name: Arcadis	Client Project	Manager: Mega	n Meckley	,	Sit	te Con	act: Sar	manth	a Szpai	chler		l	.ab C	ntact	Mike I	DelMon	ico				TestAmerica Laboratories. COC No:
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240			Те	lenhor	e: 248-9	994-22	40			-	eleph	one: 3	30-497-	9396					
City/State/Zip: Novi, MI, 48377				-			ysis Tur			- 1		ًا لِــــ				Anaiy	1000				1 of 1 COCs For lab use only
Phone: 248-994-2240	Email: megan.												Т	T	Т		1	П	\neg	\top	
Project Name: Ford LTP	Sampler Name	Nowh	Do	han	e M	Tirdin 10 da		below 3 we 2 we													Walk-in client Lab sampling
Project Number: 30251157.401.04	Method of Ship	ment/Carrier:					Γ*	l we	ck	2	٧			۱			¥.				
PO # US3460023914	Shipping/Track	ting No:						2 day		ple (Y /	/Grab	g	3260D	E 8260D		3 8260E	8260D				Job/SDG No:
				Matrix	<u>.</u> 2		tainers &			s	Composite=C / Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE	PCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				Sample Specific Notes /
Sample Identification	Sample Date	Sample Time	Air	Sediment	Other:	HNO3	HCI NaOH	ZaAci	Unpres Other:	FILE	S	=	cis-	Tra	2 5	. į	4.			\perp	Special Instructions:
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MW-1065-050825	05/08/25	14:15	6				6			N	G	×	X	×	× >	< >	X				Runnel MSD
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Special Instructions/QC Requirements & Comments:	Beaco		Row		8- 9	_	U11					,									
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11/			-	-				7		7		1									

Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-224193-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA	
Qualifier	Qualifier Description

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

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) Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML 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) Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Eurofins Cleveland

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5/19/2025

Client: Arcadis US Inc. Job ID: 240-224193-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_126

Lab Sample ID: 240-224193-1 Date Collected: 05/08/25 00:00

Matrix: Water

Date Received: 05/10/25 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/16/25 13:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/16/25 13:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/16/25 13:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/16/25 13:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/16/25 13:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/16/25 13:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137			_		05/16/25 13:32	1
4-Bromofluorobenzene (Surr)	79		56 ₋ 136					05/16/25 13:32	1
Toluene-d8 (Surr)	94		78 - 122					05/16/25 13:32	1
Dibromofluoromethane (Surr)	103		73 - 120					05/16/25 13:32	1

Eurofins Cleveland

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Client: Arcadis US Inc. Job ID: 240-224193-1

Project/Site: Ford LTP

Client Sample ID: MW-138S_050825

Date Collected: 05/08/25 09:55 Date Received: 05/10/25 08:00

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Lab Sample ID: 240-224193-2

05/16/25 19:12

05/16/25 19:12

05/16/25 19:12

05/16/25 19:12

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/15/25 03:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		68 - 127					05/15/25 03:58	1
- Method: SW846 8260D - Volatile	e Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/16/25 19:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/16/25 19:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/16/25 19:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/16/25 19:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/16/25 19:12	1
Vinyl chloride	0.83	J	1.0	0.45	ug/L			05/16/25 19:12	1

62 - 137

56 - 136

78 - 122

73 - 120

99

77

90

104

Client: Arcadis US Inc. Job ID: 240-224193-1

Project/Site: Ford LTP

Client Sample ID: MW-106S_050825

Date Collected: 05/08/25 14:15 Date Received: 05/10/25 08:00 Lab Sample ID: 240-224193-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/15/25 04:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		68 - 127					05/15/25 04:21	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/16/25 19:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/16/25 19:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/16/25 19:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/16/25 19:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/16/25 19:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/16/25 19:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137			-		05/16/25 19:36	1
4-Bromofluorobenzene (Surr)	79		56 - 136					05/16/25 19:36	1
Toluene-d8 (Surr)	94		78 - 122					05/16/25 19:36	1
Dibromofluoromethane (Surr)	105		73 - 120					05/16/25 19:36	1