PREPARED FOR

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

Generated 5/19/2025 7:00:34 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-224195-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Generated 5/19/2025 7:00:34 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: 240-224195-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	15
QC Sample Results	16
QC Association Summary	20
Lab Chronicle	21
Certification Summary	22
Chain of Custody	23

3

4

6

8

9

1 U

12

13

14

Definitions/Glossary

Client: Arcadis US Inc.

Job ID: 240-224195-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Appreviation	These commonly used appreviations 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 Eco	Dilution Factor

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

Eurofins Cleveland

Page 4 of 26

•

4

7

8

10

40

13

14

Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-224195-1 Eurofins Cleveland

Job Narrative 240-224195-1

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

Method 8260D_SIM: Batch analytical batch 240-656136 is reported without a matrix spike/matrix spike duplicate (MS/MSD). The batch MS/MSD was originally performed on another client's sample, and the MS/MSD has not ran yet. This MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. The associated laboratory control sample (LCS) met acceptance criteria and provides long-term precision and accuracy for this batch.

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

Eurofins Cleveland

Job ID: 240-224195-1

Page 5 of 26 5/19/2025

Method Summary

Client: Arcadis US Inc. Job ID: 240-224195-1 Project/Site: Ford LTP

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-224195-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-224195-1	TRIP BLANK_202	Water	05/08/25 00:00	05/10/25 08:00
240-224195-2	MW-102S_050825	Water	05/08/25 09:35	05/10/25 08:00
240-224195-3	MW-102_050825	Water	05/08/25 10:35	05/10/25 08:00
240-224195-4	MW-142S_050825	Water	05/08/25 14:05	05/10/25 08:00
240-224195-5	MW-108S_050825	Water	05/08/25 15:20	05/10/25 08:00
240-224195-6	DUP-13	Water	05/08/25 00:00	05/10/25 08:00

6

10

11

14

112

Detection Summary

Project/Site: Ford LTP Client Sample ID: TRIP BLANK_202 Lab Sample ID: 240-224195-1 No Detections. Client Sample ID: MW-102S_050825 Lab Sample ID: 240-224195-2 No Detections. Client Sample ID: MW-102_050825 Lab Sample ID: 240-224195-3 Analyte RL MDL Unit Dil Fac D Method Result Qualifier **Prep Type** Vinyl chloride 1.5 1.0 0.45 ug/L 8260D Total/NA Client Sample ID: MW-142S_050825 Lab Sample ID: 240-224195-4 No Detections. Client Sample ID: MW-108S_050825 Lab Sample ID: 240-224195-5 No Detections.

RL

1.0

MDL Unit

0.45 ug/L

Result Qualifier

1.2

Job ID: 240-224195-1

Lab Sample ID: 240-224195-6

Prep Type

Total/NA

Dil Fac D Method

8260D

13

4 /

This Detection Summary does not include radiochemical test results.

Client: Arcadis US Inc.

Client Sample ID: DUP-13

Analyte

Vinyl chloride

Client: Arcadis US Inc. Job ID: 240-224195-1

Project/Site: Ford LTP

Date Received: 05/10/25 08:00

Client Sample ID: TRIP BLANK_202

Lab Sample ID: 240-224195-1 Date Collected: 05/08/25 00:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 05/15/25 15:03 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/15/25 15:03 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 05/15/25 15:03 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 05/15/25 15:03 Trichloroethene 1.0 U 1.0 0.44 ug/L 05/15/25 15:03 Vinyl chloride 0.45 ug/L 1.0 U 1.0 05/15/25 15:03 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 85 62 - 137 05/15/25 15:03 4-Bromofluorobenzene (Surr) 85 05/15/25 15:03 56 - 136 103 78 - 122 05/15/25 15:03 Toluene-d8 (Surr) Dibromofluoromethane (Surr) 92 73 - 120 05/15/25 15:03

Client: Arcadis US Inc. Job ID: 240-224195-1

Project/Site: Ford LTP

Client Sample ID: MW-102S_050825

Date Collected: 05/08/25 09:35 Date Received: 05/10/25 08:00 Lab Sample ID: 240-224195-2

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 12:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		68 - 127			-		05/15/25 12:21	1
- Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	SC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/15/25 16:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/15/25 16:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/15/25 16:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/15/25 16:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/15/25 16:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/15/25 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		62 - 137			-		05/15/25 16:13	1
4-Bromofluorobenzene (Surr)	85		56 ₋ 136					05/15/25 16:13	1
Toluene-d8 (Surr)	104		78 - 122					05/15/25 16:13	1
Dibromofluoromethane (Surr)	92		73 - 120					05/15/25 16:13	1

3

4

5

a

10

12

13

14

Client: Arcadis US Inc. Job ID: 240-224195-1

Project/Site: Ford LTP

Client Sample ID: MW-102_050825

Date Collected: 05/08/25 10:35 Date Received: 05/10/25 08:00 Lab Sample ID: 240-224195-3

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 12:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		68 - 127			_		05/15/25 12:45	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/15/25 16:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/15/25 16:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/15/25 16:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/15/25 16:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/15/25 16:37	1
Vinyl chloride	1.5		1.0	0.45	ug/L			05/15/25 16:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1 2-Dichloroethane-d4 (Surr)	86		62 - 137			_		05/15/25 16:37	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86	62 - 137		05/15/25 16:37	1
4-Bromofluorobenzene (Surr)	84	56 ₋ 136		05/15/25 16:37	1
Toluene-d8 (Surr)	104	78 - 122		05/15/25 16:37	1
Dibromofluoromethane (Surr)	91	73 - 120		05/15/25 16:37	1

3

4

5

8

9

10

12

13

Client: Arcadis US Inc. Job ID: 240-224195-1

Project/Site: Ford LTP

Date Received: 05/10/25 08:00

Dibromofluoromethane (Surr)

Client Sample ID: MW-142S_050825

Lab Sample ID: 240-224195-4 Date Collected: 05/08/25 14:05

Matrix: Water

05/15/25 17:00

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 22:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		68 - 127					05/15/25 22:55	1
_									
Method: SW846 8260D - Vola	tile Organic Comp	ounds by G	C/MS						
Method: SW846 8260D - Vola Analyte	•	ounds by G Qualifier	C/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier			Unit ug/L	<u>D</u> -	Prepared	Analyzed 05/15/25 17:00	Dil Fac

Tetrachloroethene	1.0	U	1.0	0.44	ug/L		05/15/25 17:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L		05/15/25 17:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L		05/15/25 17:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L		05/15/25 17:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		62 - 137				05/15/25 17:00	1
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)	85 83		62 - 137 56 - 136				05/15/25 17:00 05/15/25 17:00	1 1

73 - 120

Client: Arcadis US Inc. Job ID: 240-224195-1

Project/Site: Ford LTP

Client Sample ID: MW-108S_050825

Lab Sample ID: 240-224195-5 Date Collected: 05/08/25 15:20

Matrix: Water

Method: SW846 8260D SIM - \	/olatile Organic C	ompounds	(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			05/15/25 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		68 - 127			_		05/15/25 23:18	1

.,. =		_			3				•	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	76	76						05/15/25 23:18	1	
- Method: SW846 8260D - Volat	tile 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			05/15/25 17:24	1	
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/15/25 17:24	1	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/15/25 17:24	1	
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/15/25 17:24	1	
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/15/25 17:24	1	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/15/25 17:24	1	
Surrogate	%Recovery	Qualifier	Limits			_	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	87		62 - 137			-		05/15/25 17:24	1	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87	62 - 137		05/15/25 17:24	1
4-Bromofluorobenzene (Surr)	84	56 ₋ 136		05/15/25 17:24	1
Toluene-d8 (Surr)	104	78 - 122		05/15/25 17:24	1
Dibromofluoromethane (Surr)	92	73 - 120		05/15/25 17:24	1

Client: Arcadis US Inc. Job ID: 240-224195-1

Project/Site: Ford LTP

Trichloroethene

Client Sample ID: DUP-13 Lab Sample ID: 240-224195-6

1.0 U

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
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/15/25 13:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		68 - 127					05/15/25 13:55	
Method: SW846 8260D - Volat		ounds by G						00/10/20 10:00	,
Method: SW846 8260D - Volat Analyte	ile Organic Comp	ounds by G		MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ile Organic Comp	Qualifier	C/MS		Unit ug/L	<u>D</u> .	Prepared		Dil Fac
Analyte	ile Organic Comp	Qualifier U	GC/MS		ug/L	<u>D</u> .	Prepared	Analyzed	Dil Fac
Analyte 1,1-Dichloroethene	ile Organic Comp Result	Qualifier U	RL 1.0	0.49 0.46	ug/L	<u> </u>	Prepared	Analyzed 05/15/25 17:48	Dil Fac 1 1 1

Vinyl chloride	1.2	1.0	0.45 ug/L		05/15/25 17:48	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85	62 - 137			05/15/25 17:48	1
4-Bromofluorobenzene (Surr)	84	56 ₋ 136			05/15/25 17:48	1
Toluene-d8 (Surr)	101	78 - 122			05/15/25 17:48	1
Dibromofluoromethane (Surr)	91	73 - 120			05/15/25 17:48	1

1.0

0.44 ug/L

05/15/25 17:48

Surrogate Summary

Client: Arcadis US Inc. Job ID: 240-224195-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rrogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-224195-1	TRIP BLANK_202	85	85	103	92
240-224195-2	MW-102S_050825	87	85	104	92
240-224195-3	MW-102_050825	86	84	104	91
240-224195-4	MW-142S_050825	85	83	102	90
240-224195-5	MW-108S_050825	87	84	104	92
240-224195-6	DUP-13	85	84	101	91
240-224197-B-7 MS	Matrix Spike	84	88	103	92
240-224197-B-7 MSD	Matrix Spike Duplicate	84	89	105	94
LCS 240-656182/5	Lab Control Sample	81	87	103	90
MB 240-656182/9	Method Blank	86	87	104	91

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-224163-A-18 MS	Matrix Spike	81	
240-224163-A-18 MSD	Matrix Spike Duplicate	80	
240-224195-2	MW-102S_050825	83	
240-224195-3	MW-102_050825	83	
240-224195-4	MW-142S_050825	77	
240-224195-5	MW-108S_050825	76	
240-224195-6	DUP-13	78	
240-224197-C-7 MSD	Matrix Spike Duplicate	79	
240-224197-F-7 MS	Matrix Spike	79	
LCS 240-656136/5	Lab Control Sample	80	
LCS 240-656212/2	Lab Control Sample	78	
MB 240-656136/7	Method Blank	82	
MB 240-656212/4	Method Blank	77	

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

Eurofins Cleveland

Page 15 of 26

Client: Arcadis US Inc. Job ID: 240-224195-1

Project/Site: Ford LTP Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-656182/9

Matrix: Water

Analysis Batch: 656182

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/15/25 14:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/15/25 14:39	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/15/25 14:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/15/25 14:39	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/15/25 14:39	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/15/25 14:39	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 05/15/25 14:39 86 4-Bromofluorobenzene (Surr) 87 56 - 136 05/15/25 14:39 05/15/25 14:39 Toluene-d8 (Surr) 104 78 - 122 Dibromofluoromethane (Surr) 91 73 - 120 05/15/25 14:39

Lab Sample ID: LCS 240-656182/5

Matrix: Water

Analysis Batch: 656182

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	25.0	23.0		ug/L		92	63 - 134	
cis-1,2-Dichloroethene	25.0	23.0		ug/L		92	77 - 123	
Tetrachloroethene	25.0	26.5		ug/L		106	76 - 123	
trans-1,2-Dichloroethene	25.0	23.1		ug/L		93	75 - 124	
Trichloroethene	25.0	25.1		ug/L		100	70 - 122	
Vinyl chloride	25.0	21.9		ug/L		88	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 81 62 - 137 4-Bromofluorobenzene (Surr) 87 56 - 136 Toluene-d8 (Surr) 103 78 - 122 73 - 120 Dibromofluoromethane (Surr) 90

Lab Sample ID: 240-224197-B-7 MS

Matrix: Water

Analysis Batch: 656182

Client Sample ID: Matrix Spike 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	25.0	21.7		ug/L		87	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	22.5		ug/L		90	66 - 128	
Tetrachloroethene	1.0	U	25.0	22.0		ug/L		88	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	21.6		ug/L		86	56 - 136	
Trichloroethene	1.0	U	25.0	22.1		ug/L		88	61 - 124	
Vinyl chloride	1.0	U	25.0	22.1		ug/L		88	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		62 - 137
4-Bromofluorobenzene (Surr)	88		56 - 136
Toluene-d8 (Surr)	103		78 - 122

Eurofins Cleveland

Job ID: 240-224195-1

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

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

Lab Sample ID: 240-224197-B-7 MS **Matrix: Water**

Analysis Batch: 656182

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 92 73 - 120

Lab Sample ID: 240-224197-B-7 MSD

Matrix: Water

Analysis Batch: 656182

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

%Rec RPD D %Rec Limits RPD Limit

MSD MSD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit 1,1-Dichloroethene 1.0 U 25.0 22.2 ug/L 89 56 - 135 26 cis-1,2-Dichloroethene 10 U 25.0 23 1 92 66 - 128 ug/L 3 14 Tetrachloroethene 1.0 U 25.0 23.3 ug/L 93 62 - 131 20 trans-1.2-Dichloroethene 1.0 U 25.0 22.6 ug/L 90 56 - 136 15 Trichloroethene 1.0 U 25.0 23.4 ug/L 94 61 - 124 6 15 Vinyl chloride 1.0 U 25.0 22.5 ug/L 43 - 157 2 24

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		62 - 137
4-Bromofluorobenzene (Surr)	89		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	94		73 - 120

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

Lab Sample ID: MB 240-656136/7

Matrix: Water

Analysis Batch: 656136

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

75 - 121

Client Sample ID: Matrix Spike Duplicate

95

Prep Type: Total/NA

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 05/15/25 11:34 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 82 68 - 127 05/15/25 11:34

Lab Sample ID: LCS 240-656136/5

Matrix: Water

1,4-Dioxane

Analysis Batch: 656136

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits

9.48

ug/L

10.0

LCS LCS %Recovery Qualifier Surrogate Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 80

Lab Sample ID: 240-224197-C-7 MSD

Matrix: Water				Prep Type: T	otal/NA
Analysis Batch: 656136					
	Sample Sample	Snike	MSD MSD	%Rec	RPD

Result Qualifier Added RPD Analyte Result Qualifier Unit %Rec Limits Limit 1,4-Dioxane 2.0 U 10.0 9.00 ug/L 90 20 - 180 20

Eurofins Cleveland

Client: Arcadis US Inc. Job ID: 240-224195-1

Project/Site: Ford LTP

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

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	79		68 - 127

Lab Sample ID: 240-224197-F-7 MS

Matrix: Water

Analysis Batch: 656136

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 10.0 1,4-Dioxane 2.0 U 9.29 ug/L 93 20 - 180

MS MS Surrogate %Recovery Qualifier Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 79

Lab Sample ID: MB 240-656212/4

Matrix: Water

Analysis Batch: 656212

мв мв MDL Dil Fac Analyte Result Qualifier RL Unit Prepared Analyzed 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 05/15/25 22:08 MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 77 68 - 127 05/15/25 22:08

Lab Sample ID: LCS 240-656212/2

Matrix: Water

Analysis Batch: 656212

LCS LCS Spike %Rec Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 9.82 ug/L 75 - 121

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 78 68 - 127

Lab Sample ID: 240-224163-A-18 MS

Matrix: Water

1,4-Dioxane

Analysis Batch: 656212

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits

10.2

ug/L

10.0

MS MS Surrogate %Recovery Qualifier Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 81

2.0 U

Lab Sample ID: 240-224163-A-18 MSD

Matrix: Water

Analysis Batch: 656212											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1.4-Dioxane	2.0	U	10.0	10.8		ua/L		108	20 - 180	5	20

Eurofins Cleveland

Client Sample ID: Matrix Spike

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

102

Prep Type: Total/NA

Prep Type: Total/NA

10

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

QC Sample Results

Client: Arcadis US Inc. Job ID: 240-224195-1

Project/Site: Ford LTP

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

Lab Sample ID: 240-224163-A-18 MSD

Matrix: Water

Analysis Batch: 656212

MSD MSD

Surrogate	%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	80		68 - 127			

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-224195-1

GC/MS VOA

Analysis Batch: 656136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224195-2	MW-102S_050825	Total/NA	Water	8260D SIM	
240-224195-3	MW-102_050825	Total/NA	Water	8260D SIM	
240-224195-6	DUP-13	Total/NA	Water	8260D SIM	
MB 240-656136/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-656136/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-224197-C-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
240-224197-F-7 MS	Matrix Spike	Total/NA	Water	8260D SIM	

Analysis Batch: 656182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224195-1	TRIP BLANK_202	Total/NA	Water	8260D	
240-224195-2	MW-102S_050825	Total/NA	Water	8260D	
240-224195-3	MW-102_050825	Total/NA	Water	8260D	
240-224195-4	MW-142S_050825	Total/NA	Water	8260D	
240-224195-5	MW-108S_050825	Total/NA	Water	8260D	
240-224195-6	DUP-13	Total/NA	Water	8260D	
MB 240-656182/9	Method Blank	Total/NA	Water	8260D	
LCS 240-656182/5	Lab Control Sample	Total/NA	Water	8260D	
240-224197-B-7 MS	Matrix Spike	Total/NA	Water	8260D	
240-224197-B-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 656212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224195-4	MW-142S_050825	Total/NA	Water	8260D SIM	-
240-224195-5	MW-108S_050825	Total/NA	Water	8260D SIM	
MB 240-656212/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-656212/2	Lab Control Sample	Total/NA	Water	8260D SIM	
240-224163-A-18 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-224163-A-18 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Eurofins Cleveland

Job ID: 240-224195-1

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

Client Sample ID: TRIP BLANK_202

Lab Sample ID: 240-224195-1 Date Collected: 05/08/25 00:00

Matrix: Water

Batch Batch Dilution Batch Prepared Prep Type Method Run Factor Number Analyst or Analyzed Type Lab 05/15/25 15:03 Total/NA Analysis 8260D 656182 MS EET CLE

Client Sample ID: MW-102S 050825 Lab Sample ID: 240-224195-2

Date Collected: 05/08/25 09:35 **Matrix: Water**

Date Received: 05/10/25 08:00

Date Received: 05/10/25 08:00

Batch Batch Dilution Batch Prepared Prep Type Method Factor Number Analyst or Analyzed Туре Run Lab 8260D MS EET CLE 05/15/25 16:13 Total/NA 656182 Analysis 8260D SIM EET CLE Total/NA Analysis 1 656136 R5XG 05/15/25 12:21

Client Sample ID: MW-102 050825 Lab Sample ID: 240-224195-3

Date Collected: 05/08/25 10:35 **Matrix: Water**

Date Received: 05/10/25 08:00

Batch Batch Dilution Batch Prepared Prep Type Type Method Run Factor Number Analyst or Analyzed Lab 05/15/25 16:37 8260D Total/NA Analysis 656182 MS **EET CLE** 05/15/25 12:45 Total/NA Analysis 8260D SIM 656136 R5XG EET CLE 1

Client Sample ID: MW-142S 050825 Lab Sample ID: 240-224195-4

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

Date Received: 05/10/25 08:00

Batch Batch Dilution Batch Prepared Method Factor or Analyzed **Prep Type** Type Run Number Analyst Lab 05/15/25 17:00 Total/NA 8260D 656182 MS Analysis EET CLE Total/NA 8260D SIM 656212 R5XG EET CLE 05/15/25 22:55 Analysis 1

Client Sample ID: MW-108S 050825 Lab Sample ID: 240-224195-5

Date Collected: 05/08/25 15:20 **Matrix: Water**

Date Received: 05/10/25 08:00

Batch Batch Dilution Batch Prepared Method Factor or Analyzed Prep Type Туре Run Number Analyst Lab 05/15/25 17:24 8260D Total/NA 656182 MS EET CLE Analysis 05/15/25 23:18 Total/NA Analysis 8260D SIM 656212 R5XG EET CLE 1

Client Sample ID: DUP-13 Lab Sample ID: 240-224195-6

Date Collected: 05/08/25 00:00 **Matrix: Water**

Date Received: 05/10/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	656182	MS	EET CLE	05/15/25 17:48
Total/NA	Analysis	8260D SIM		1	656136	R5XG	EET CLE	05/15/25 13:55

Laboratory References:

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

Eurofins Cleveland

5/19/2025

Page 21 of 26

Accreditation/Certification Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-224195-1

Laboratory: Eurofins Cleveland

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

Authority Program		Identification Number	Expiration Date
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-25
lowa	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

6

0

9

10

12

13

12



Chain of Custody Record

8/13

Test _A	YTY	ner	ica
THE LEADER IN	ENVIR	DAMENTA	TESTING

Test/	America Labora	tory location:	Farm	nington	Hills -	3885	Hills	Tech	Drive	, Suite	600, Fa	rmingt	on Hi	lls 483	31					_			THE	LEADER	IN ENVIRO	ONMENTAL	TESTI
Client Contact	Regulat	ory program:			DW			PDES	S	<u></u>	RCRA	T	Oth	er		41.											
ompany Name: Arcadis	Client Project Manager: Megan Meckley Site Contact: Samantha Szpaichler Lab Contact: Mike DelMonico								TestAm		boratori	es, In															
Address: 28550 Cabot Drive, Suite 500											· ·													50C M	,. 		
Tity/State/Zip: Novi, M1, 48377	Telephone: 248-994-2240							hone:	248-9	994-224	0				Telep	hone:	330-4	97-93	6				-		of 1	COC	
ny/State/2/p: Novi, Wii, 483//	Email: megan.meckley@arcadis.com							nalysi	s Tur	narou	d Time		Т		_			A	nalys	es			F	For lab u		COC	
hone: 248-994-2240								10	, ,																		
Project Name: Ford LTP	Sampler Name		_				TAT	differe		below 3 wea	.ks	\dashv											ľ	Walk-in	client		
	Kay		<u>Ro</u>	C			10	day		2 wee	ks												I	Lab samp	oling		
Project Number: 30251157.401.04	Method of Ship	ment/Carrier:								1 wee		2	P	l		2			۵	SIM							
O # US3460023914	Shipping/Track	ing No:		-						1 day		Filtered Sample (Y / N)	Composite-C/Grab-G		00	Trans-1,2-DCE 8260D	'		Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM			3	Job/SDG	No:		
			_	N/-	itrix			Comtail		k Preser	M	_ i	15	1,1-DCE 8260D	cis-1,2-DCE 8260D	SE			Je 8	826							
				IVI	ILFIX			Contail	ners a	Preser	VALUVES	San	1 4	82	SCE	2-D	09	909	loric	ane			l F				_
			Į I	Aqueeus Sediment	_	:	3	2	Ξ	¬ =	2 2	1 5	100	ä	1,2-1	l-s	PCE 8260D	TCE 8260D	ΰ	Dio						cific Note	
Sample Identification	Sample Date	Sample Time	후	Aqueeus	Solid	O.	112504	SON I	NaOH	NaCH NaCH	Unpres Other:	Ĭ	Co	Ξ.	cis-	Trai	PCE	100	Viny	1,4.				3	pecial in	structions	:
TRIP BLANK_ 202 H7 202			П	1	T			1	T				G	V	V	V	V	~	~			$\overline{}$	\Box				
TRIP BLAIN _ LOC HT ZUZ			Ш					1				N	٦	X	X	X	X	X	X				Ш		ip Blaı		
MW-1025_050825	518/25	0935		E				-6	5	225	.		Π							χ					As for		CIA
W-10[3] 0308 ED	1 107		Н	, Si			+	1	(fr)	79127			+	\vdash	-		-	+	+	1	-	+	├─┼	1300	AS IOF	8260D S	SIIVI
MW-102_050825		1035		0				(ρ			-11	Π														
Mic 11126 Kraus F		11100	П	6				1	1				11									\top					
MW-1425_050825		1405	Ш	<u> </u>	_			_ \ \	2				$\downarrow \downarrow$	\perp	Ц.	1				\perp		\perp	\vdash				
MW-1085_050825		1520		6				(0				\mathbb{H}		П			1	}								
		1,720	\vdash	-			-		+	+	_	+	+	-	\vdash	\vdash	+	-	+	+		+	\vdash	+-			
DUP-13	1 🖳			م					٥			11	1	1	1	L	1	J	1	\downarrow				\downarrow			
			П																			$\neg \neg$			_	Page	
			Ц		ļ.			_		1		\perp		_									ш		_		3
	 				1	0	t	1/5	16	-																	
	 		H			<u> </u>		110	#			-	-	-	-	-							\vdash		- 1		7
			Ш									+	+-	-	_										240	20	
			\vdash					+	+			\top	t							_		+				224195	CO
Possible Hazard Identification Non-Hazard lammable cin Irritant	Poise	- D	Jnkr				Sai			al (A)	ee may	be asse: Dispo				retai A			an I) onths						
		1110	ли	iown			-	- KC	tuin t	o Chen		Dispo	ם וגאנ	y Lao			TCHIVE	roi i		IVIC	nitiis						
K034.																											
ubmit all results through Cadena at jtomalia@cadenaco.c evel IV Reporting requested.	com, Cadena #b	203728																									
aliaquichad bur a /	Company:			Date/Tir				-	D.	ceived I							_	C.,,,,,			-		- IT	Date/Tim			
clinquished by: Waylle Volco-	Arca à	īΛ		5/2	(/2	ζ	16	30	Ke	Na	vi (المار	J	ora	م ب			Comp	Tr.	ad.	; .			5/8	/25	16	23 (
elinquished by:	Company:	1		Date/Tip	me:		·		Re	ceived		In	,/	0/2		_	-	Comp			**		r	Date/Tim			-
Louis	Company:	to15		5/9				06		40	10	41	H.	CV						E	M			5/9	15		
elinquished by:	Company:	~^		Date/Ti			16	26	Re	cejecd	Labor	at ry l	y:	,				Comp	any:				r	Date/Tir	قاك	_ ^	1
10041/4/		114		5	191	175	10	- 7		/	cu	5	1	1						_				5/1	210	ζ · C	X (

	3

1	
	3

Euroffus - Cleveland Sample Receipt Form/Narrative Login#
Site Name Coole
Cooler Received on 5 W 25
FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Counter Other
Receipt After-hours Drop-off Date/Time Storage Location
Eurofins Cooler # 2 Foam Box Client Cooler Box Other
Packing material used Bubble Wrap Foam Plastic Bag None Other
COOLANT Wet Ice Blue Ice Dry Ice Water None

Cooler temperature upon receipt

Gee Multiple Cooler Form

Ņ Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity IR GUN# Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Were the seals on the outside of the cooler(s) signed & dated? **Q** <u>ٰ</u> Observed Cooler Temp °C Corrected Cooler Temp

Tests that are not checked for pH by

Receiving

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

0420 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)?

9 For each sample, does the COC specify preservatives (YNN), # of containers (XNN) Could all bottle labels (ID/Date/Time) be reconciled with the COC?

ample type of grab/comp(Y/

No

ö

ž

Š 꿁

Oil and Grease TOC

VOAs

Were correct bottle(s) used for the test(s) indicated?

Sufficient quantity received to perform indicated analyses?

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

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

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

13 14 15 Were air bubbles >6 mm in any VOA vials? Were VOAs on the COC?

Larger than this

NO (NE)

pH Strap Lot# HC457151

Page 24 of 26

Ä

DE

ĸ

Trip Blank Lot#

16 17 Was a VOA trip blank present in the cooler(s)?
Was a LL Hg or Me Hg trip blank present?

Concerning Contacted PM Date ঠ via Verbal Voice Mail Other

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Labeled by Labels Venfied by

19

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

SAMPLE PRESERVATION

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

Wetice Blueice Dryice			IR GUN #:	Box Other	Client	5
Wetter Blue Ice Dry Ice			IR GUN #:	Box Other	Client	EC.
Wet Ice Bive Ice Dry Ice Water None			IR GUN #:	Box Other	Client	5
Wet Ice Blue Ice Diy Ice Water None			IR GUN #:	Box Other	Client	ا
Wet Ice Blue Ice Dry Ice Water None	100000000000000000000000000000000000000		IR GUN #-	Box Other	Client	٦ ت
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Box Other	Client	గొ
Ω			# GUN #:	Box Other	Client	E.
Wet ice Blue ice Dry ice Water None			IR GUN #:	Box Other	Client	70
Wet Ice Blue Ice Dry Ice Water Name			IR GUN #:	Box Other	Client	r
19		Total Control	IR GUN #:	Box Other	Client	ا
0			IR GUN #:	Box Olher	Client	ا
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Box Other	Client	n
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Box Other	Client	n
Wet ice Blue Ice Dry Ice Water None			IR GUN #:	Box Olher	Client	ñ
Wet ice Stue ice Dry ice Water None			IR GUN #:	Box Other	Client	ا ت
Wet ice Blue ice Dry ice Water Nane			IR GUN #:	Box Other	Client	ا
Wetice Blueice Dryice Water None			IR GUN #:	Box Other	Client	ñ
Wellice Bluelce Drylce Water Nane			IR GUN #:	Box Other	Client	ر ة
Wetice Slueice Dryice Water None			IR GUN #:	Box Other	Client	د
Wet ice Bive ice Dry ice Water None			IR GUN #:	Box Other	Client	ñ
Wetice Blueice Dryice Water None			IR GUN #:	Box Other	Client	<u>ت</u>
Wellce Bluelce Drylce Water None			IR GUN #:	Box Ofher	Client	ñ
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Box Other	Client	۳ ö
Wet Ice Blue ice Dry ice Water Name			IR GUN #:	Box Other	Client	
Wetice Blueice Dryice Water None			IR GUN #:	Box Other	Client	۳ ۲
Wetice Blueice Dryice Water None			IR GUN #:	Box Other	Client	۳ ۳
Wet Ice Blue tce Dry Ice Water None			IR GUN #:	Box Other	Client	గొ
Wetice Blueice Dryice Water None	and the state of t		IR GUN #:	Box Other	Client	EC
Wetice Biveice Dryice Water Name			IR GUN #:	Box Other	Client	ic.
Wettice Bluetce Drytice Water None			IR GUN #:	Box Other	Client	<u>ال</u>
Wet Ice Blue Ice Dry Ice Water Nane			IR GUN #:	Box Other	Client	ñ
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Box Other	Client	۳.
Wet Ice Blue Ice Dry Ice	10	0.5	IR GUN #: 13	Box Other	Client	(5
Wet Ice Slue Ice Dry Ice	0,6	0.1	IR GUN # 13	Box Other	Client	(<u>%</u>
Coolant (Circle)	Corrected Temp °C	Observed Temp °C	IR Gun # (Circle)	scription :le)	Cooler Description (Circle)	0

WI-NC-099 Cooler Receipt Form Page 2 Multiple Coolers

Page 25 of 26

5/19/2025

Login Container Summary Report

5/10/2025	Logi	Login Container Summary Report	ort	240-224195	5/19/2025	3/13/2023
Client Sample ID	Lab ID	Container Type	Container pH Temp	Preservation Preservation Added Lot Number	Preservation Lot Number	
TRIP BLANK_202	240-224195-A-1	Voa Vial 40ml - Hydrochloric Acıd			WHITE CONTRACTOR OF THE PARTY O	
MW-102S_050825	240-224195-A-2	Voa Vial 40ml - Hydrochloric Acid	- Andrewson of the Control of the Co			
MW-102S_050825	240-224195-B-2	Voa Vial 40ml - Hydrochloric Acid		***************************************		
MW-102S_050825	240-224195-C-2	Voa Vial 40ml - Hydrochloric Acid	The state of the s			
MW-102S_050825	240-224195-D-2	Voa Vial 40ml - Hydrochloric Acid	The state of the s	**************************************	And a fair of the state of the	
MW-102S_050825	240-224195-E-2	Voa Vial 40ml - Hydrochloric Acıd			THE REAL PROPERTY AND PERSONS ASSESSED.	
MW-102S_050825	240-224195-F-2	Voa Vial 40ml - Hydrochloric Acid				
MW-102_050825	240-224195-A-3	Voa Vial 40ml - Hydrochloric Acid				
MW-102_050825	240-224195-B-3	Voa Vial 40ml - Hydrochloric Acid		derme - Advisor de production de la companya de la		
MW-102_050825	240-224195-C-3	Voa Vial 40ml - Hydrochloric Acid				
MW-102_050825	240-224195-D-3	Voa Vial 40ml - Hydrochloric Acid				
MW-102_050825	240-224195-E-3	Voa Vial 40ml - Hydrochloric Acıd	The second secon			
MW-102_050825	240-224195-F-3	Voa Vial 40ml - Hydrochloric Acid			And the state of t	
MW-142S_050825	240-224195-A-4	Voa Vial 40ml - Hydrochloric Acid			26	_0
MW-142S_050825	240-224195-B-4	Voa Vial 40ml - Hydrochloric Acid				, 01 ,
MW-142S_050825	240-224195-C-4	Voa Vial 40ml - Hydrochloric Acid			26	U 20
MW-142S_050825	240-224195-D-4	Voa Vial 40ml - Hydrochloric Acid		Titting & Landaus and Landaus	 Pag	. ay
MW-142S_050825	240-224195-E-4	Voa Vıal 40ml - Hydrochlorıc Acid	***************************************			
MW-142S_050825	240-224195-F-4	Voa Vial 40ml - Hydrochloric Acıd		THE PROPERTY OF THE PROPERTY O		

DUP-13 DUP-13

240-224195-B-6 240-224195-A-6 MW-108S_050825 MW-108S_050825 MW-108S_050825 MW-108S_050825 MW-108S_050825

240-224195-F-5 240-224195-E-5 240-224195-D-5 240-224195-C-5 MW-108S_050825

240-224195-B-5 240-224195-A-5

DUP-13 DUP-13 DUP-13

240-224195-E-6

240-224195-D-6 240-224195-C-6

> Voa Vial 40ml - Hydrochloric Acid Voa Vial 40ml - Hydrochloric Acıd Voa Vial 40ml - Hydrochloric Acid Voa Vial 40ml - Hydrochloric Acid Voa Vial 40ml - Hydrochloric Acid Voa Vial 40ml - Hydrochloric Acid

Voa Vial 40ml - Hydrochloric Acid

240-224195-F-6

Voa Vial 40ml - Hydrochloric Acid Voa Vial 40ml - Hydrochloric Acid

DUP-13

DATA VERIFICATION REPORT



May 20, 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: 224195-1 Sample date: 2025-05-08

Report received by CADENA: 2025-05-20

Initial Data Verification completed by CADENA: 2025-05-20

Number of Samples:6 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.
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: 224195-1

		Sample Name:	TRIP BL	ANK_20	2		MW-10	2S_0508	25		MW-10	2_05082	5		MW-142	2S_0508	25		MW-108	S_0508	25		DUP-13			
		Lab Sample ID:	240224	1951			240224	1952			240224	1953			240224	1954			240224	1955			240224	1956		
		Sample Date:	5/8/202	25			5/8/202	25			5/8/202	.5			5/8/202	:5			5/8/202	5			5/8/202	.5		
				Report		Valid		Report		Valid		Report		Valid		Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC																										
OSW-826	<u>0D</u>																									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l		1.5	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		1.2	1.0	ug/l	
OSW-826	<u>ODSIM</u>																									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l		ND	2.0	ug/l		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 # 240-224195-1

CADENA Verification Report: 2025-05-20

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 59684R Review Level: Tier III Project: 30251157.401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-224195-1 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:

Samula ID	Lab ID	Matrix	Sample	Doront Comple	Ana	lysis
Sample ID	Labib	Watrix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_202	240-224195-1	Water	05/08/2025		Х	
MW-102S_050825	240-224195-2	Water	05/08/2025		Х	Х
MW-102_050825	240-224195-3	Water	05/08/2025		Х	Х
MW-142S_050825	240-224195-4	Water	05/08/2025		Х	Х
MW-108S_050825	240-224195-5	Water	05/08/2025		Х	Х
DUP-13	240-224195-6	Water	05/08/2025	MW-102_050825	Х	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfori Accep		Not Required
	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		X		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	
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 identified compounds met the specified criteria.

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.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-102_050825 / DUP-13	Vinyl chloride	1.5	1.2	AC

Note:

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

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		Х		Х	
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

8/13

Test _A	YTY	ner	ica
THE LEADER IN	ENVIR	DAMENTA	TESTING

Test/	America Labora	tory location:	Farm	nington	Hills -	3885	Hills	Tech	Drive	, Suite	600, Fa	rmingt	on Hi	lls 483	31					_			THE	LEADER	IN ENVIRO	ONMENTAL	TESTI
Client Contact	Regulat	ory program:			DW			PDES	S	<u></u>	RCRA	T	Oth	er		41.											
ompany Name: Arcadis	Client Project	Manager: Meg	n Me	ckley			Site C	ontac	4. Sai	mantha	Szpaic	ler			Lab	Contac	r Mil	c Del	Monic	n				TestAm		boratori	es, In
Address: 28550 Cabot Drive, Suite 500			in wie	CKICY							· ·													50C M	,. 		
Tity/State/Zip: Novi, M1, 48377	Telephone: 248	-994-2240					Telep	hone:	248-9	994-224	0				Telephone: 330-497-9396				-		of 1	COC					
ny/State/2/p: Novi, Wii, 483//	Email: megan.	meckley@arca	lis.cor	n			A	nalysi	s Tur	narou	d Time		Т		_			A	nalys	es			F	For lab u		COC	
hone: 248-994-2240								15	, ,																		T.
Project Name: Ford LTP	Sampler Name		_				TAT	differe		below 3 wea	.ks	\dashv											ľ	Walk-in	client		
	Kay		<u>Ro</u>	C			10	day		2 wee	ks												I	Lab samp	oling		
Project Number: 30251157.401.04	Method of Ship	ment/Carrier:								1 wee		2	P	l		2			۵	SIM							
O # US3460023914	Shipping/Track	ing No:		-						1 day		Filtered Sample (Y / N)	Composite-C/Grab-G		00	Trans-1,2-DCE 8260D	'		Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM			3	Job/SDG	No:		
			_	N/-	itrix			Comtail		k Preser	M	_ i	15	1,1-DCE 8260D	cis-1,2-DCE 8260D	SE			Je 8	826							
				IVI	ILFIX			Contail	ners a	Preser	VALUVES	San	1 4	82	SCE	2-D	09	909	loric	ane			l F				_
			Į I	Aqueeus Sediment	_	:	3	2	Ξ	¬ =	2 2	1 5	100	ä	1,2-1	l-s	PCE 8260D	TCE 8260D	ΰ	Dio						cific Note	
Sample Identification	Sample Date	Sample Time	후	Aqueeus	Solid	O.	112504	SON I	NaOH	NaCH NaCH	Unpres Other:	Ĭ	Co	Ξ.	cis-	Trai	PCE	1CE	Viny	1,4.				3	pecial in	structions	:
TRIP BLANK_ 202 H7 202			П	1	T			1	T				G	V	V	V	V	~	~			$\overline{}$	\Box				
TRIP BLAIN _ LOC HT ZUZ			Ш					1				N	٦	X	X	X	X	X	X			\perp	Ш		ip Blaı		
MW-1025_050825	518/25	0935		E				-6	5	225	.		Π							χ					As for		CIA
W-10[3] 0308 ED	1 107		Н	, Si			+	1	(fr)	79127			+	\vdash	-		-	+	+	1	-	+	\vdash	1300	AS IOF	8260D S	SIIVI
MW-102_050825		1035		0				(ρ			-11	Π														
Mic 11126 Kraus F		11100	П	6				1	1				11									\top					
MW-1425_050825		1405	Ш	<u> </u>	_			_ \ \	2				$\downarrow \downarrow$	\perp	Ц.	1				\perp		\perp	\vdash				
MW-1085_050825		1520		6				(0				\mathbb{H}		П			-	}								
		1 7 2 4	\vdash	-			-		+	+	_	+	+	-	\vdash	\vdash	+	-	+	+		+	\vdash	+-			
DUP-13	1 🖳			م					٥			1	1	1	1	L	1	J	1	\downarrow				\downarrow			
			П																			$\neg \neg$			_	Page	
			Ц		ļ.			_		1		\perp		_									ш		_		3
	 				1	0	t	1/5	16	-																	
	 		H			<u> </u>		110	#			-	-	-	-	-							\vdash		- 1		7
			Ш									+	+-	-	_										240	20	
			\vdash					+	+			\top	t									+				224195	CO
Possible Hazard Identification Non-Hazard lammable cin Irritant	Poise	- D	Jnkr				Sai			al (A)	ee may	be asse: Dispo				retai A			an I) onths						
		1110	ли	iown			-	- KC	tuin t	o Chen		Dispo	ם וגאנ	y Lao			TCHIVE	roi i		IVIC	nitiis						
K034.																											
ubmit all results through Cadena at jtomalia@cadenaco.c evel IV Reporting requested.	com, Cadena #b	203728																									
aliaquichad bur a /	Company:			Date/Tir				-	D.	ceived I							_	C.,,,,,,			-		- IT	Date/Tim			
clinquished by: Waylle Volco-	Arca à	īΛ		5/2	(/2	ζ	16	30	Ke	Na	vi (المار	J	ora	م ب			Comp	Tr.	ad.	; .			5/8	/25	16	23 (
elinquished by:	Company:	1		Date/Tip	me:		·		Re	ceived		In	,/	0/2		_	-	Comp			**		r	Date/Tim			-
Louis	Company:	to15		5/9				06		40	10	41	H.	CV						E	M			5/9	15		
elinquished by:	Company:	~^		Date/Ti			16	26	Re	cejecd	Labor	at ry l	y:	,				Comp	any:				r	Date/Tir	قاك	_ ^	1
10041/4/		114		5	191	175	10	- 7		/	cu	5	1	1						_				5/1	210	ζ · C	X (

Definitions/Glossary

Client: Arcadis US Inc.

Job ID: 240-224195-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Appreviation	These commonly used appreviations 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 Eco	Dilution Factor

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

Eurofins Cleveland

Page 4 of 26

•

4

E

1

10

12

13

14

Client: Arcadis US Inc. Job ID: 240-224195-1

Project/Site: Ford LTP

Date Received: 05/10/25 08:00

Client Sample ID: TRIP BLANK_202

Lab Sample ID: 240-224195-1 Date Collected: 05/08/25 00:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 05/15/25 15:03 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/15/25 15:03 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 05/15/25 15:03 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 05/15/25 15:03 Trichloroethene 1.0 U 1.0 0.44 ug/L 05/15/25 15:03 Vinyl chloride 0.45 ug/L 1.0 U 1.0 05/15/25 15:03 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 85 62 - 137 05/15/25 15:03 4-Bromofluorobenzene (Surr) 85 05/15/25 15:03 56 - 136 103 78 - 122 05/15/25 15:03 Toluene-d8 (Surr) Dibromofluoromethane (Surr) 92 73 - 120 05/15/25 15:03

Client: Arcadis US Inc. Job ID: 240-224195-1

Project/Site: Ford LTP

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-102S_050825

Lab Sample ID: 240-224195-2 Date Collected: 05/08/25 09:35

104

92

Matrix: Water

05/15/25 16:13

05/15/25 16:13

Date Received: 05/10/25 08:00

Method: SW846 8260D SIM - V	olatile Organic C	ompounds	(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			05/15/25 12:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		68 - 127			-		05/15/25 12:21	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			05/15/25 16:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/15/25 16:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/15/25 16:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/15/25 16:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/15/25 16:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/15/25 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		62 - 137			-		05/15/25 16:13	1
4-Bromofluorobenzene (Surr)	85		56 ₋ 136					05/15/25 16:13	1

78 - 122

73 - 120

Client: Arcadis US Inc. Job ID: 240-224195-1

Project/Site: Ford LTP

Client Sample ID: MW-102_050825

Date Collected: 05/08/25 10:35 Date Received: 05/10/25 08:00 Lab Sample ID: 240-224195-3

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 12:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		68 - 127			_		05/15/25 12:45	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/15/25 16:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/15/25 16:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/15/25 16:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/15/25 16:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/15/25 16:37	1
Vinyl chloride	1.5		1.0	0.45	ug/L			05/15/25 16:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1 2-Dichloroethane-d4 (Surr)	86		62 - 137			_		05/15/25 16:37	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86	62 - 137		05/15/25 16:37	1
4-Bromofluorobenzene (Surr)	84	56 ₋ 136		05/15/25 16:37	1
Toluene-d8 (Surr)	104	78 - 122		05/15/25 16:37	1
Dibromofluoromethane (Surr)	91	73 - 120		05/15/25 16:37	1

3

4

5

8

9

10

12

13

Client: Arcadis US Inc. Job ID: 240-224195-1

Project/Site: Ford LTP

Date Received: 05/10/25 08:00

Dibromofluoromethane (Surr)

Client Sample ID: MW-142S_050825

Lab Sample ID: 240-224195-4 Date Collected: 05/08/25 14:05

Matrix: Water

05/15/25 17:00

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 22:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		68 - 127					05/15/25 22:55	1
_									
Method: SW846 8260D - Vola	tile Organic Comp	ounds by G	C/MS						
Method: SW846 8260D - Vola Analyte	•	ounds by G Qualifier	C/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier			Unit ug/L	<u>D</u> -	Prepared	Analyzed 05/15/25 17:00	Dil Fac

Tetrachloroethene	1.0	U	1.0	0.44	ug/L		05/15/25 17:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L		05/15/25 17:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L		05/15/25 17:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L		05/15/25 17:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		62 - 137				05/15/25 17:00	1
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)	85 83		62 - 137 56 - 136				05/15/25 17:00 05/15/25 17:00	1 1

73 - 120

Client: Arcadis US Inc. Job ID: 240-224195-1

Project/Site: Ford LTP

Client Sample ID: MW-108S_050825

Lab Sample ID: 240-224195-5 Date Collected: 05/08/25 15:20

Matrix: Water

Method: SW846 8260D SIM - \	/olatile Organic C	ompounds	(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			05/15/25 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		68 - 127			_		05/15/25 23:18	1

.,. =		_			3				•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		68 - 127					05/15/25 23:18	1
- Method: SW846 8260D - Volat	tile 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			05/15/25 17:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/15/25 17:24	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/15/25 17:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/15/25 17:24	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/15/25 17:24	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/15/25 17:24	1
Surrogate	%Recovery	Qualifier	Limits			_	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		62 - 137			-		05/15/25 17:24	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87	62 - 137		05/15/25 17:24	1
4-Bromofluorobenzene (Surr)	84	56 ₋ 136		05/15/25 17:24	1
Toluene-d8 (Surr)	104	78 - 122		05/15/25 17:24	1
Dibromofluoromethane (Surr)	92	73 - 120		05/15/25 17:24	1

Client: Arcadis US Inc. Job ID: 240-224195-1

Project/Site: Ford LTP

Trichloroethene

Client Sample ID: DUP-13 Lab Sample ID: 240-224195-6

1.0 U

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
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/15/25 13:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		68 - 127					05/15/25 13:55	
Method: SW846 8260D - Volat	ile Organic Comp	ounds by G						00,70,20,70.00	•
Method: SW846 8260D - Volat Analyte		ounds by G		MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	C/MS		Unit ug/L	<u>D</u> .	Prepared		Dil Fac
Analyte	Result	Qualifier U	GC/MS		ug/L	<u>D</u> .	Prepared	Analyzed	Dil Fac
Analyte 1,1-Dichloroethene		Qualifier U	RL 1.0	0.49 0.46	ug/L	<u> </u>	Prepared	Analyzed 05/15/25 17:48	Dil Fac 1 1 1

Vinyl chloride	1.2	1.0	0.45 ug/L		05/15/25 17:48	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85	62 - 137			05/15/25 17:48	1
4-Bromofluorobenzene (Surr)	84	56 ₋ 136			05/15/25 17:48	1
Toluene-d8 (Surr)	101	78 - 122			05/15/25 17:48	1
Dibromofluoromethane (Surr)	91	73 - 120			05/15/25 17:48	1

1.0

0.44 ug/L

05/15/25 17:48