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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 5/14/2025 7:27:58 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-223924-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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

Authorization

Generated 5/14/2025 7:27:58 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: 240-223924-1

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Definitions/Glossary

Client: Arcadis US Inc.

Job ID: 240-223924-1

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

Ciossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL. RA. RE. IN	Indicates a Dilution. Re-analysis. Re-extraction. or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-223924-1 Eurofins Cleveland

Job Narrative 240-223924-1

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 5/8/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-655702 was outside the method criteria for the following analyte(s): 1,1-Dichloroethene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 240-655702.

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: 240-223924-1

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Method Summary

Client: Arcadis US Inc. Job ID: 240-223924-1 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: 240-223924-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-223924-1	TRIP BLANK_43	Water	05/05/25 00:00	05/08/25 08:00
240-223924-2	MW-117S_050525	Water	05/05/25 13:00	05/08/25 08:00

Detection Summary

Client: Arcadis US Inc. Job ID: 240-223924-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_43 Lab Sample ID: 240-223924-1

No Detections.

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinvl chloride	0.79	J	1.0	0.45	ua/L	1		8260D	Total/NA

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-223924-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_43

Date Received: 05/08/25 08:00

Lab Sample ID: 240-223924-1 Date Collected: 05/05/25 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 05/13/25 09:11 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/13/25 09:11 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 05/13/25 09:11 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 05/13/25 09:11 Trichloroethene 1.0 U 1.0 0.44 ug/L 05/13/25 09:11 Vinyl chloride 1.0 U 1.0 0.45 ug/L 05/13/25 09:11 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 121 62 - 137 05/13/25 09:11 4-Bromofluorobenzene (Surr) 107 05/13/25 09:11 56 - 136 78 - 122 05/13/25 09:11 Toluene-d8 (Surr) 93 Dibromofluoromethane (Surr) 107 73 - 120 05/13/25 09:11

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-223924-1

Project/Site: Ford LTP

Client Sample ID: MW-117S_050525

Date Collected: 05/05/25 13:00

Lab Sample ID: 240-223924-2 Matrix: Water

Date Received: 05/08/25 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			05/09/25 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		68 - 127			-		05/09/25 17:42	1
Method: SW846 8260D - Volat Analyte	•	ounds by G Qualifier	GC/MS	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier			Unit ug/L	D	Prepared	Analyzed 05/13/25 02:30	Dil Fac
Analyte	Result	Qualifier U	RL	0.49		<u>D</u> .	Prepared	- <u> </u>	Dil Fac 1 1
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U	RL	0.49 0.46	ug/L	<u> </u>	Prepared	05/13/25 02:30	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0 1.0	Qualifier U U U	1.0 1.0	0.49 0.46 0.44	ug/L ug/L	<u>D</u> -	Prepared	05/13/25 02:30 05/13/25 02:30	Dil Fac 1 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	Result 1.0 1.0 1.0	Qualifier U U U U	1.0 1.0 1.0 1.0	0.49 0.46 0.44 0.51	ug/L ug/L ug/L	<u>D</u> .	Prepared	05/13/25 02:30 05/13/25 02:30 05/13/25 02:30	Dil Fac 1 1 1 1 1 1

-						
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		62 - 137		05/13/25 02:30	1
4-Bromofluorobenzene (Surr)	101		56 ₋ 136		05/13/25 02:30	1
Toluene-d8 (Surr)	93		78 - 122		05/13/25 02:30	1
Dibromofluoromethane (Surr)	106		73 - 120		05/13/25 02:30	1

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Surrogate Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-223924-1

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

Matrix: Water Prep Type: Total/NA

				Percent Surrogate Rec		
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-223924-1	TRIP BLANK_43	121	107	93	107	
240-223924-2	MW-117S_050525	114	101	93	106	
LCS 240-655702/2	Lab Control Sample	113	104	101	97	
LCSD 240-655702/3	Lab Control Sample Dup	112	107	100	98	
MB 240-655702/6	Method Blank	117	103	94	103	
Surrogato Logand						

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)	
240-223510-B-2 MS	Matrix Spike	85	
240-223510-E-2 MSD	Matrix Spike Duplicate	84	
240-223924-2	MW-117S_050525	88	
LCS 240-655458/4	Lab Control Sample	86	
MB 240-655458/6	Method Blank	88	
•			
Surrogate Legend			

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

Eurofins Cleveland

Client: Arcadis US Inc. Job ID: 240-223924-1

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

Lab Sample ID: MB 240-655702/6

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 655702

Client Sampl	e ID: Metho	d Blank
	ron Tuno: I	Total/NIA

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			05/12/25 23:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/12/25 23:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/12/25 23:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/12/25 23:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/12/25 23:55	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/12/25 23:55	1

MB MB Qualifier Dil Fac Surrogate %Recovery Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 05/12/25 23:55 117 4-Bromofluorobenzene (Surr) 103 56 - 136 05/12/25 23:55 Toluene-d8 (Surr) 94 78 - 122 05/12/25 23:55 Dibromofluoromethane (Surr) 103 73 - 120 05/12/25 23:55

Lab Sample ID: LCS 240-655702/2

Matrix: Water

Analysis Batch: 655702

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	20.0	16.5		ug/L		82	63 - 134	
cis-1,2-Dichloroethene	20.0	16.6		ug/L		83	77 - 123	
Tetrachloroethene	20.0	19.3		ug/L		96	76 - 123	
trans-1,2-Dichloroethene	20.0	17.4		ug/L		87	75 - 124	
Trichloroethene	20.0	19.4		ug/L		97	70 - 122	
Vinyl chloride	20.0	14.8		ug/L		74	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		62 - 137
4-Bromofluorobenzene (Surr)	104		56 ₋ 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	97		73 _ 120

Lab Sample ID: LCSD 240-655702/3

Matrix: Water

Analysis Batch: 655702

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

RPD
Limit
35
35
35
35
35
35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		62 - 137
4-Bromofluorobenzene (Surr)	107		56 - 136
Toluene-d8 (Surr)	100		78 - 122

Eurofins Cleveland

5/14/2025

Client: Arcadis US Inc. Job ID: 240-223924-1

Project/Site: Ford LTP

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

Lab Sample ID: LCSD 240-655702/3

Matrix: Water

Analysis Batch: 655702

LCSD LCSD

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 98 73 - 120

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

Lab Sample ID: MB 240-655458/6

Matrix: Water

Analysis Batch: 655458

MB MB

Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed 2.0 1,4-Dioxane 2.0 U 0.86 ug/L 05/09/25 14:11

MB MB

Surrogate %Recovery Qualifier Limits Dil Fac Prepared Analyzed 88 68 - 127 05/09/25 14:11 1,2-Dichloroethane-d4 (Surr)

Lab Sample ID: LCS 240-655458/4 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 655458

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 10.0 87 1,4-Dioxane 8 70 75 - 121 ug/L

LCS LCS

%Recovery Surrogate Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 86

Lab Sample ID: 240-223510-B-2 MS

Matrix: Water

Analysis Batch: 655458 Sample Sample Spike MS MS %Rec Limits

Analyte Result Qualifier Added Unit %Rec Result Qualifier 1.4-Dioxane 2.0 U 10.0 9.37 20 - 180 ug/L

> MS MS

Surrogate %Recovery Qualifier Limits

1,2-Dichloroethane-d4 (Surr) 85 68 - 127

Lab Sample ID: 240-223510-E-2 MSD

Analysis Batch: 655458

Matrix: Water

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 1,4-Dioxane 2.0 U 10.0 9.27 ug/L 93 20 - 180 20

MSD MSD

%Recovery Qualifier Limits Surrogate 68 - 127 1,2-Dichloroethane-d4 (Surr) 84

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

Eurofins Cleveland

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-223924-1

GC/MS VOA

Analysis Batch: 655458

Lab Sample ID 240-223924-2	Client Sample ID MW-117S 050525	Prep Type Total/NA	Matrix Water	Method Prep Batch 8260D SIM
MB 240-655458/6	Method Blank	Total/NA	Water	8260D SIM
LCS 240-655458/4	Lab Control Sample	Total/NA	Water	8260D SIM
240-223510-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM
240-223510-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM

Analysis Batch: 655702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223924-1	TRIP BLANK_43	Total/NA	Water	8260D	
240-223924-2	MW-117S_050525	Total/NA	Water	8260D	
MB 240-655702/6	Method Blank	Total/NA	Water	8260D	
LCS 240-655702/2	Lab Control Sample	Total/NA	Water	8260D	
LCSD 240-655702/3	Lab Control Sample Dup	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-223924-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_43

Lab Sample ID: 240-223924-1 Date Collected: 05/05/25 00:00

Matrix: Water

Date Received: 05/08/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	655702	AJS	EET CLE	05/13/25 09:11

Client Sample ID: MW-117S_050525 Lab Sample ID: 240-223924-2

Date Collected: 05/05/25 13:00 Matrix: Water

Date Received: 05/08/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	655702	AJS	EET CLE	05/13/25 02:30
Total/NA	Analysis	8260D SIM		1	655458	R5XG	EET CLE	05/09/25 17:42

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-223924-1

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		
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		

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Chain of Custody Record

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	<u>TestAmerica</u>

Client Contact Company Name: Arcadis	Regular	tory program:		Г	DW	٢	NPI	DES	ſ	RCI	и	┌ Otl	her										
	Client Project Manager: Megan Meckley						Site Contact: Samantha Szpaichler					Lab Contact: Mike DelMonico						+	TestAmerica Laboratories, Inc COC No:				
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	L994_2240				Tel	enho	ne: 24	48-994-	2240			Telephone: 330-497-9396							4			
City/State/7ip: Novi, MI, 48377	Email: megan.meckley@arcadis.com									send I				Treat	mone.	330-4		alys	es			1 of 1 COC	š
Phone: 248-994-2240						TA	Taran	(form)	from belo				Г									Walk-in client	
Project Name: Ford LTP							10 da			weeks										Ш		Lab sampling	
Project Number: 30251157.401.04						•	☐ 1 ☐ 2		- 1	2 Y			8			۵	<u>≅</u>						
PO # US3460023914	Shipping/Track	cing No:							F 1	day		ple (Y/	8	8260D	SE 8260D			e 8260	8260D			Job/SDG No:	
Sample Identification	Sample Date	Sample Time	Air	Mat	Solid Solid Other:	112504	T			Capres Unpres	Yher	Filtered Sample (Y/N) Composite-C/Grab-G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D			Sample Specific Notes Special Instructions:	
TRIP BLANK_ 13			1		<i>y.</i> 10	<u> </u>	Ť	1	~ ~			NG			X	X	Х	X		+		1 Trip Blank	
	05/000-	171	4		+	+	-			+			+-	1./	~				V		╫	3 VOAs for 8260D	
770 (11)2000) 23	05/05/25	(3:00	V					6				NG	X	(X	×	X				3 VOAs for 8260D S	SIM
			\sqcup	\sqcup		_						\perp											
								Ш										_/					
8																			113				
																				4			
																			240-223	924 CC	oc		
																			240		1		
																		- 1					-
Possible Hazard Identification Non-Hazard Tammable Sin Irritant	□ Poiso	n B	Jnknov	70		- 5			posal (nay be as				retair			an I r	nonth) Months		Ή.		
Special Instructions/QC Requirements & Comments: 1208 Submit all results through Cadena at jtomalia@cadenaco.cc evel IV Reporting requested.	SA Bost	on Post			-								,, 0_0										
telinquished by: Myeß	Company:	13	Da	te Time	5/25	- 15	13	0	Receiv	red by:	: C	ald	St	ZVq i	1		Comp	A.	endig			Date/Time: 05/65/25 15	31
telinquished by:	Company: Company: APCA	POIS	Da	te/Time		5 11	2	7	Receiv		Me	4/L		-	_		Comp	ny.	TA			Date/Time: 5/7/25 1/2	12
delinquished by:	Company:		Da	Ic Time	- -	16			Receiv	ed in L	aborator	v bv:	211	7			Comp		7/1	-	+-	Date/Time:	> 7

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VOA Sample Preservation - Date/Time VOAs Frozen
Sample(s)
20 SAMPLE PRESERVATION
Sample(s)were received after the recommended holding time had expired. Sample(s)were received with bubble >6 mm in diameter (Notify PM)
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Daddithonal next page Labeled by MSC
Concerning
Contacted PM Date by via Verbal Voice Mail Other
Were air bubbles >6 mm in any VOA vials? Larger than this Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Was a LL Hg or Me Hg trip blank present?
11 yes, Questions 13-17 have been checked at the originating laboratory 13 Were all preserved sample(s) at the correct pH upon receipt? 14 Were VOAs on the COC?
alyses?
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? 9 For each sample, does the COC specify preservatives (WN), # of containers (V/N), and sample type of grab/comp(N)? 10 Were correct bottle(s) used for the test(s) indicated?
Was/were the person(s) who collected the samples clearly identified on the COC? (Cest) Did all bottles arrive in good condition (Unbroken)?
3 Shippers' packing slip attached to the cooler(s)? 4 Did custody papers accompany the sample(s)? 5 Were the custody papers relinquished & somed in the appropriate place? 5 Were the custody papers relinquished & somed in the appropriate place? 6 Were the custody papers relinquished & somed in the appropriate place? 7 OC TOC
-Were tamper/custody seals intact and uncompromised?
s Quantity Yes No
IR GUN # "THE CF CF CC) Observed Cooler Temp. C Corrected Cooler Temp. C
rnal used. Bubble Wrap Foam Plastic Bag None. NT Wet Ice Blue Ice Dry Ice Water None
Receipt After-hours Drop-off Date/Time Storage Location Eurofins Cooler # Foam Box Client Cooler Box Other
Cooler Received on O O O O O O O O O O O O O O O O O O
Client ACA'S Site Name Cooler unpacked by
Eurofins - Cleveland Sample Receipt Form/Narrative Logn#;

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Login Container Summary Report

240-223924

5/8/2025	Logi	Login Container Summary Report	rt 240-223924	/2025
Temperature readings				5/14
Chent Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number	
TRIP BLANK_43	240-223924-A-1	Voa Vıal 40ml - Hydrochloric Acid		1
MW-1178_050525	240-223924 A-2	Voa Vial 40ml - Hydrochloric Acıd		l
.MW-117S_050525	240-223924-B-2	Voa Vial 40ml - Hydrochloric Acid	wowwenterman and the state of t	
MW-117S_050525	240-223924-C-2	Voa Vial 40ml - Hydrochloric Acid		
MW-1178_050525	240-223924-D-2	Voa Vial 40ml - Hydrochloric Acıd		
MW-117S_050525	240-223924-E-2	Voa Vial 40ml - Hydrochloric Acid		
MW-117S_050525	240-223924-F-2	Voa Vial 40ml - Hydrochloric Acid		1

DATA VERIFICATION REPORT



May 14, 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: 223924-1 Sample date: 2025-05-05

Report received by CADENA: 2025-05-14

Initial Data Verification completed by CADENA: 2025-05-14

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

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

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch did not include MS/MSD recovery data due to insufficient sample volume available for spiking according to the laboratory submittal case narrative.

GCMS VOC QC batch CCV response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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

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

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
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: 223924-1

		Sample Name: Lab Sample ID: Sample Date:		9241 5			MW-117 240223 5/5/202			
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC	<u>od</u>									
	1,1-Dichloroethene	75-35-4	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	
	Tetrachloroethene	127-18-4	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	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		0.79	1.0	ug/l	J
OSW-8260	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-223924-1

CADENA Verification Report: 2025-05-14

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 59494R Review Level: Tier III Project: 30251157.401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-223924-1 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	Analysis			
Sample ID	Labib	Watita	Collection Date	Farent Sample	voc			
TRIP BLANK_43	240-223924-1	Water	05/05/2025		Х			
MW-117S_050525	240-223924-2	Water	05/05/2025		X	X		

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		Not
	No	Performance Acceptable Yes No Yes X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X X	Required	
Sample receipt condition		X	X	
2. Requested analyses and sample results		Х	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	
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 calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial /Continuing	Compound	CCV (%D)
TRIP BLANK_43 MW-117S 050525	Continuing Calibration Verification %D	1,1-Dichloroethene	-20.7%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
	DDE <0.05	Non-detect	R
$ \begin{array}{c} \text{RRF} < 0.05 \\ \\ \text{Initial and Continuing} \\ \text{Calibration} \end{array} \begin{array}{c} \text{Non-detect} & \text{R} \\ \\ \text{Detect} & \text{J} \\ \\ \text{Non-detect} & \text{R} \\ \\ \text{Detect} & \text{J} \\ \\ \text{Non-detect} \end{array} $	J		
Initial and Continuing	RRF < 0.05 $ \begin{array}{c} $		
Initial and Continuing Calibration RRF <0.01 ¹	KKF <0.01	Detect	J
	DDE >0.05 or DDE >0.011	Non-detect	No Action
	KKF >0.03 01 KKF >0.01	Detect	NO ACTION

Initial/Continuing	Criteria	Sample Result	Qualification
	%RSD > 20% or a correlation coefficient <0.99	Non-detect	UJ
Initial Calibration	%RSD > 20% of a correlation coefficient <0.99	Detect	J
Initial Calibration	0/ DCD > 000/	Non-detect	R
	%RSD > 90%	Detect	J
	0/ D > 000/ (in an analyticity)	Non-detect	UJ
	%D >20% (increase in sensitivity)	Detect	J
	0/D - 000/ / 1	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	0/D - 000/ // // // // // // // // // // // /	Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

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	Perfor Acce	Not Required	
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		X		Х	
Tier III Validation			·		
System performance and column resolution		X		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х	Х		
Instrument tune and performance check		Х		Х	
lon abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	X				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 5, 2025

PEER REVIEW: Andrew Korycinski

DATE: June 12, 2025

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

8	/12
	<u>TestAmerica</u>

Client Contact Company Name: Arcadis	Regular	tory program:		Г	DW	٢	NPI	DES	ſ	RCI	и	┌ Otl	her										
	Client Project	Manager: Meg	an Meck	lcy	-	Site	: Con	tact:	Saman	tha Sz	paichler			Lab	Contac	t: Mil	ce Dell	Monic	3		+	TestAmerica Laboratorio COC No:	es, Inc
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	L994_2240				Tel	enho	ne: 24	48-994-	2240				Talar	hone:	330-4	97-939	6			4		
City/State/7ip: Novi, MI, 48377		meckley@arca	dis.com							send I				Treat	mone.	330-4		alys	es			1 of 1 COC	š
Phone: 248-994-2240	Complex Non-		44			TA	Taran	(form)	from belo				Г									Walk-in client	
Project Name: Ford LTP	Sampler Name	Jeveny	11	4/5			10 da			weeks										Ш		Lab sampling	
Project Number: 30251157.401.04	Method of Ship	ment/Carrier:						•	☐ 1 ☐ 2		- 1	2 Y			8			۵	<u>≅</u>				
PO # US3460023914	Shipping/Track	cing No:							F 1	day		ple (Y/	8	8260D	SE 8260D			e 8260	8260D			Job/SDG No:	
Sample Identification	Sample Date	Sample Time	Air	Mat	Solid Solid Other:	112504	T			Capres Unpres	Yher	Filtered Sample (Y/N) Composite-C/Grab-G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D			Sample Specific Notes Special Instructions:	
TRIP BLANK_ 13			1		<i>y.</i> 10	<u> </u>	Ť	1	~ ~			NG			X	X	Х	X		+		1 Trip Blank	
	05/000-	171	4		+	+	-			+			+-	1./	~				V		╫	3 VOAs for 8260D	
770 (11)2000) 23	05/05/25	(3:00	V					6				NG	X	(X	×	X				3 VOAs for 8260D S	SIM
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8																			113				
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Possible Hazard Identification Non-Hazard Tammable Sin Irritant	□ Poiso	n B	Jnknov	70		- 5			posal (nay be as				retair			an I r	nonth) Months		Ή.		
Special Instructions/QC Requirements & Comments: 1208 Submit all results through Cadena at jtomalia@cadenaco.cc evel IV Reporting requested.	SA Bost	on Post			-								,, 0_0										
telinquished by: Myeß	Company:	13	Da	te Time	5/25	- 15	13	0	Receiv	red by:	: C	ald	St	ZVq i	1		Comp	A.	endig			Date/Time: 05/65/25 15	31
telinquished by:	Company: Company: APCA	POIS	Da	te/Time		5 11	2	7	Receiv		Me	4/L		-	_		Comp	ny.	TA			Date/Time: 5/7/25 1/2	12
delinquished by:	Company:		Da	Ic Time	- -	16			Receiv	ed in L	aborator	v bv:	211	7			Comp		7/1	-	+-	Date/Time:	> 7

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5/14/2025

Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-223924-1 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

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**

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCI 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

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-223924-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_43

Date Received: 05/08/25 08:00

Lab Sample ID: 240-223924-1 Date Collected: 05/05/25 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	₩ UJ	1.0	0.49	ug/L			05/13/25 09:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/13/25 09:11	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 09:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/25 09:11	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 09:11	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/13/25 09:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		62 - 137			-		05/13/25 09:11	1
4-Bromofluorobenzene (Surr)	107		56 ₋ 136					05/13/25 09:11	1
Toluene-d8 (Surr)	93		78 - 122					05/13/25 09:11	1
Dibromofluoromethane (Surr)	107		73 - 120					05/13/25 09:11	1

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-223924-1

Project/Site: Ford LTP

Surrogate

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-117S_050525

Date Collected: 05/05/25 13:00 Date Received: 05/08/25 08:00 Lab Sample ID: 240-223924-2

Prepared

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			05/09/25 17:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		68 - 127			_		05/09/25 17:42	1
Method: SW846 8260D - Volat		_		MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8260D - Volat Analyte		ounds by G Qualifier	C/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	_		MDL 0.49		<u>D</u> .	Prepared	Analyzed 05/13/25 02:30	Dil Fac
Analyte	Result	Qualifier UJ	RL	0.49		<u>D</u> _	Prepared	.	Dil Fac
Analyte 1,1-Dichloroethene		Qualifier U U		0.49	ug/L ug/L	<u> </u>	Prepared	05/13/25 02:30	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0 1.0	Qualifier U U U	1.0 1.0	0.49 0.46	ug/L ug/L ug/L	D -	Prepared	05/13/25 02:30 05/13/25 02:30	Dil Fac 1 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	Result 1.0 1.0 1.0	Qualifier U U U U	1.0 1.0 1.0	0.49 0.46 0.44	ug/L ug/L ug/L ug/L	<u>D</u> -	Prepared	05/13/25 02:30 05/13/25 02:30 05/13/25 02:30	Dil Fac 1 1 1 1 1 1 1

Limits

62 - 137

56 - 136

78 - 122

73 - 120

%Recovery Qualifier

114

101

93

106

13

Dil Fac

Analyzed

05/13/25 02:30

05/13/25 02:30

05/13/25 02:30

05/13/25 02:30