ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 5/15/2025 7:18:23 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-224110-1

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 5/15/2025 7:18:23 AM

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

Laboratory Job ID: 240-224110-1

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Definitions/Glossary

Client: Arcadis US Inc.

Job ID: 240-224110-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-224110-1 Eurofins Cleveland

Job Narrative 240-224110-1

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 5/9/2025 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 3 coolers at receipt time were 1.5°C, 2.0°C and 2.1°C.

GC/MS VOA

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

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Job ID: 240-224110-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-224110-1

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

Protocol References:

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

Laboratory References:

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

Eurofins Cleveland

Sample Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-224110-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-224110-1	TRIP BLANK_50	Water	05/07/25 00:00	05/09/25 08:00
240-224110-2	MW-137S_050725	Water	05/07/25 09:40	05/09/25 08:00

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Detection Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-224110-1

Client Sample ID: TRIP BLANK_50

Lab Sample ID: 240-224110-1

No Detections.

Client Sample ID: MW-137S_050725 Lab Sample ID: 240-224110-2

No Detections.

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-224110-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_50

Date Received: 05/09/25 08:00

Lab Sample ID: 240-224110-1 Date Collected: 05/07/25 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/14/25 15:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/14/25 15:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/14/25 15:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/14/25 15:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/14/25 15:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/14/25 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		62 - 137					05/14/25 15:27	1
4-Bromofluorobenzene (Surr)	101		56 ₋ 136					05/14/25 15:27	1
Toluene-d8 (Surr)	97		78 - 122					05/14/25 15:27	1
Dibromofluoromethane (Surr)	104		73 - 120					05/14/25 15:27	1

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-224110-1

Project/Site: Ford LTP

Client Sample ID: MW-137S_050725

Date Collected: 05/07/25 09:40 Date Received: 05/09/25 08:00 Lab Sample ID: 240-224110-2

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			05/13/25 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		68 - 127			-		05/13/25 16:59	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			05/14/25 19:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/14/25 19:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/14/25 19:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/14/25 19:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/14/25 19:18	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/14/25 19:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		62 - 137			-		05/14/25 19:18	1
4-Bromofluorobenzene (Surr)	105		56 ₋ 136					05/14/25 19:18	1
Toluene-d8 (Surr)	94		78 - 122					05/14/25 19:18	1
Dibromofluoromethane (Surr)	104		73 - 120					05/14/25 19:18	1

Surrogate Summary

Client: Arcadis US Inc. Job ID: 240-224110-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Su	rrogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-224110-1	TRIP BLANK_50	119	101	97	104
240-224110-2	MW-137S_050725	122	105	94	104
LCS 240-655943/5	Lab Control Sample	114	101	102	102
LCSD 240-655943/13	Lab Control Sample Dup	118	105	104	107
MB 240-655943/10	Method Blank	112	102	96	98

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)	
240-224110-2	MW-137S_050725	79	
240-224118-E-2 MS	Matrix Spike	75	
240-224118-E-2 MSD	Matrix Spike Duplicate	81	
LCS 240-655821/5	Lab Control Sample	83	
MB 240-655821/7	Method Blank	80	
Surrogate Legend			

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

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Client: Arcadis US Inc. Job ID: 240-224110-1

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

Lab Sample ID: MB 240-655943/10

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 655943

Client S	Sample	ID: N	/letho	d Blank	
	Dr	on Ti	mo: T	otal/NIA	

rep 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			05/14/25 12:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/14/25 12:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/14/25 12:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/14/25 12:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/14/25 12:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/14/25 12:52	1

MB MB %Recovery Qualifier Surrogate Prepared Analyzed Dil Fac Limits 1,2-Dichloroethane-d4 (Surr) 62 - 137 05/14/25 12:52 112 102 05/14/25 12:52 4-Bromofluorobenzene (Surr) 56 - 136 Toluene-d8 (Surr) 96 78 - 122 05/14/25 12:52 Dibromofluoromethane (Surr) 98 73 - 120 05/14/25 12:52

Lab Sample ID: LCS 240-655943/5

Matrix: Water

Analysis Batch: 655943

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	16.9	-	ug/L		84	63 - 134	
cis-1,2-Dichloroethene	20.0	18.3		ug/L		91	77 - 123	
Tetrachloroethene	20.0	20.0		ug/L		100	76 - 123	
trans-1,2-Dichloroethene	20.0	17.5		ug/L		87	75 - 124	
Trichloroethene	20.0	19.4		ug/L		97	70 - 122	
Vinyl chloride	20.0	15.9		ug/L		80	60 - 144	

LCS LCS Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 114 62 - 137 4-Bromofluorobenzene (Surr) 101 56 - 136 Toluene-d8 (Surr) 102 78 - 122 Dibromofluoromethane (Surr) 73 - 120 102

Lab Sample ID: LCSD 240-655943/13

Matrix: Water

Trichloroethene

Vinyl chloride

Analyte

Analysis Batch: 655943

Client S	Sample	ID:	Lab (Contro	l San	ıple I	Oup
				Prep 1	vpe:	Total	/NA

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limits RPD Limit Unit %Rec 1,1-Dichloroethene 20.0 15.5 ug/L 77 63 - 134 35 cis-1,2-Dichloroethene 20.0 17.3 ug/L 87 77 - 123 5 35 Tetrachloroethene 20.0 18.9 ug/L 95 76 - 123 6 35 trans-1,2-Dichloroethene 20.0 17.4 ug/L 87 75 - 124 35 20.0 18.2 91 70 - 122 35 ug/L 20.0 14.9 60 - 144 35 ug/L

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	118		62 _ 137
4-Bromofluorobenzene (Surr)	105		56 ₋ 136
Toluene-d8 (Surr)	104		78 - 122

Eurofins Cleveland

5/15/2025

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Client: Arcadis US Inc. Job ID: 240-224110-1

Project/Site: Ford LTP

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

Lab Sample ID: LCSD 240-655943/13

Matrix: Water

Analysis Batch: 655943

LCSD LCSD

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 107 73 - 120

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

Client Sample ID: Method Blank

Prep Type: Total/NA

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

Lab Sample ID: MB 240-655821/7 Matrix: Water

Analysis Batch: 655821

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 05/13/25 13:28

MB MB

Surrogate %Recovery Qualifier Limits Analyzed Dil Fac Prepared 80 68 - 127 05/13/25 13:28 1,2-Dichloroethane-d4 (Surr)

Lab Sample ID: LCS 240-655821/5 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 655821

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 10.0 93 1,4-Dioxane 9.30 75 - 121 ug/L

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 83

Lab Sample ID: 240-224118-E-2 MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Water

Analysis Batch: 655821

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Unit Limits Result Qualifier %Rec 1.4-Dioxane 2.0 U 10.0 9.68 20 - 180 ug/L

MS MS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 75 68 - 127

Lab Sample ID: 240-224118-E-2 MSD

Matrix: Water

Analysis Batch: 655821

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 8.81 ug/L 88 20 - 180 20

MSD MSD

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

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

Eurofins Cleveland

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-224110-1

GC/MS VOA

Analysis Batch: 655821

Lab Sample ID 240-224110-2	Client Sample ID MW-137S_050725	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-655821/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-655821/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-224118-E-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-224118-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 655943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224110-1	TRIP BLANK_50	Total/NA	Water	8260D	
240-224110-2	MW-137S_050725	Total/NA	Water	8260D	
MB 240-655943/10	Method Blank	Total/NA	Water	8260D	
LCS 240-655943/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 240-655943/13	Lab Control Sample Dup	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-224110-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_50

Date Collected: 05/07/25 00:00 Matrix: Water Date Received: 05/09/25 08:00

Dilution Batch Batch Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 655943 AJS EET CLE 05/14/25 15:27 Analysis

Date Collected: 05/07/25 09:40 Matrix: Water

Date Received: 05/09/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	655943	AJS	EET CLE	05/14/25 19:18
Total/NA	Analysis	8260D SIM		1	655821	R5XG	EET CLE	05/13/25 16:59

Laboratory References:

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

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Lab Sample ID: 240-224110-1

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Accreditation/Certification Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-224110-1

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

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MICHIGAN 190

Chain of Custody Record

<u>TestAmerica</u>

Test	America Labor:	tory location	Farmi	ngton H	lills —	38855	Hills T	ech D	rive,	Suite 6	00, Far	mingto	n Hill	s 483	31									THE L	EADER IN ENVIRONMENTAL TE
Client Contact	Regula	tory program	:		DW	-	- NP	DES		┌ R	CRA	_	Othe	er				***							
Company Name: Arcadis														'											stAmerica Laboratories
Address: 28550 Cabot Drive, Suite 500	Client Project	Manager: Meg	an Mec	kley		Is	ite Co	ntact:	Sam	antha :	Szpaich	ler			Lab	Contac	ct: Mil	ce Del	Monio	:0				C	OC No:
radicist. 2000 Cabbi Dirici Baite 500	Telephone: 248	-994-2240				Т	elepho	one: 2	48-99	94-2240)				Telep	hone:	330-4	97-93	96						
City/State/Zip: Novi, MI, 48377						_			T	around	la kommu		_	لـــــ					naly						1 of 1 COCs
Phone: 248-994-2240	Email: megan.	meckley@arca	dis.com			-	All	213313	I WI	arvunu	Littue	-			T		_		mary:	i es				Fo	r lab use only
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Sample Identification	Sample Date	Sample Time	 	Aqueous	Solid Other:		HN03	Ξ	Oa'	ZaAd	Other:	lä	اقا	Ξ.	is:	l e	SCE	凒	Ę	4					Special Instructions:
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Possible Hazard Identification Non-Hazard 'ammable sin Irritan			Jnkno		-		_	Retu	arn to	Client	e may b	e asses Dispo					ned lo		han 1		onths				
Special Instructions/QC Requirements & Comments: 17.0	58 R	enister	77				- 1		2	~ 4															
Submit all results through Cadena at jtomalia@cadenaco. Level IV Reporting requested.	com, Cadena #I	ewster 203728	دن	ا ال	Bre	اللك ا	540	<u>"ب</u>	(<	<i>∞</i>															
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82 5

Cooler temperature upon receipt IR GUN# $\frac{1}{C}$ (CF (CF -0 <u>ر</u> 0 Observed Cooler Temp See Multiple Cooler Form °C Corrected Cooler Temp

IR GUN#

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Ņ Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -Were the seals on the outside of the cooler(s) signed & dated? Z X checked for pH by Tests that are not

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

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?

6

X

Receiving:

\$ **\B** \$ **\B**

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VOAs
Oil and Grease
TOC

Ÿ

Did custody papers accompany the sample(s)?

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

9 8 7 6 5 4 3 Was/were the person(s) who collected the samples clearly identified on the COC?

Did all bottles arrive in good condition (Unbroken)?

For each sample, does the COC specify preservatives (XIN), # of containers (XIN), Could all bottle labels (ID/Date/Time) be reconciled with the COC? and sample type of grab/comp(YDN)? **ETGSS** FOR S Z, ĸ

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

12 Sufficient quantity received to perform indicated analyses? Are these work share samples and all listed on the COC?

(2) Z

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(2)

pH Strip Lot# HC457151

Were all preserved sample(s) at the correct pH upon receipt? If yes, Questions 13-17 have been checked at the originating laboratory

14 15 16 17 Were air bubbles >6 mm in any VOA vials? Were VOAs on the COC?

Was a LL Hg or Me Hg trip blank present?

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

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X

Concerning Contacted PM Date হ via Verbal Voice Mail Other

18, CHAIN OF CUSTODY & SAMPLE DISCREPANCIES addithonal next page Labeled by Labels Venfied by

79 SAMPLE CONDITION

Sample(s) Sample(s) were received after the recommended holding time had expired were received in a broken container

20

Sample(s)
Time preserved. Sample(s) SAMPLE PRESERVATION Preservative(s) added/Lot number(s) were received with bubble >6 mm in diameter (Notify PM) were further preserved in the laboratory

VOA Sample Preservation -

Date/Time VOAs Frozen

WI NC-099-042925 Cooler Receipt Form.doc

27	1R GUN #: 18 2.8		Eurofins - Cleveland Sample Receipt	
15	1.5	Temp °C	t Multiple Cooler Form	Log
Well De Blue Ice Dry Ice Water None Well Ce Blue Ice Dry Ice Water None	Wellice Blue Ice Dry Ice Water None	(Circle)	Coolant	Login #

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Login Container Summary Report

Temperature readings			5
Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number
TRIP BLANK_50	240-224110-A-1	Voa Vial 40ml - Hydrochloric Acid	Application of the state of the
MW-137S_050725	240-224110-A-2	Voa Vial 40ml - Hydrochloric Acid	
MW-1378_050725	240-224110-B-2	Voa Vial 40ml - Hydrochloric Acid	
MW-137S_050725	240-224110-C-2	Voa Vial 40ml - Hydrochloric Acid	
MW-1378_050725	240-224110-D-2	Voa Vial 40ml - Hydrochloric Acid	
MW-137S_050725	240-224110-E-2	Voa Vial 40ml - Hydrochloric Acid	
MW-137S_050725	240-224110-F-2	Voa Vial 40ml - Hydrochloric Acid	

Page 20 of 20 5/15/2025

Page 1 of 1

DATA VERIFICATION REPORT



May 15, 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: 224110-1 Sample date: 2025-05-07

Report received by CADENA: 2025-05-15

Initial Data Verification completed by CADENA: 2025-05-15

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.

There were no significant QC anomalies or exceptions to report.

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.

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: 224110-1

		Sample Name: Lab Sample ID: Sample Date:	5/7/202	1101 5			MW-137 240224 5/7/202	1102 5		
	Analyte	Cas No.	Result	Report Limit		Valid Qualifier	Result	Report Limit		Valid Qualifier
GC/MS VOC	·	242412				•				C
	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		ND	1.0	ug/l	
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 # 240-224110-1

CADENA Verification Report: 2025-05-15

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 59563R Review Level: Tier III Project: 30251157.401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-224110-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Ana	lysis
Sample ID	Labib	Watrix	Collection Date	raieiii Saiiipie	voc	VOC SIM
TRIP BLANK_50	240-224110-1	Water	05/07/2025		Х	
MW-137S_050725	240-224110-2	Water	05/07/2025		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		Х		Х	
2. Requested analyses and sample results		Х		X	
Master tracking list		Х		Х	
4. Methods of analysis		Χ		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
9. Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

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	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		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 12, 2025

PEER REVIEW: Andrew Korycinski

DATE: June 16, 2025

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

Chain of Custody Record

<u>TestAmerica</u>

Test	America Labor:	atory location	: Farmi	ington H	ills — 3	8855 H	ills Te	ch Dr	rive, S	Suite 6	00, Far	mingto	on Hill	ls 483	31								1	THE LEADER IN	ENVIRONMENTA	& TESTIN
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Address: 28550 Cabot Drive, Suite 500	Client Project	Project Manager: Megan Meckley Site Contact: Samantha Szpaichler Lab Contact: Mike DelMonico				ect Manager: Megan Meckley Site Contact: Samantha Szpaichler Lab Contact: Mike DelMonico				COC No:																
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City/State/Zip: Novi, MI, 48377						_													1 of 1 COCs							
Phone: 248-994-2240	Email: megan.meckley@arcadis.com					Analysis Turnaround Time Analyses										For lab use	only									
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Project Number: 30251157.401.04	Method of Shir	mont/Courier	00,0	1171	μ.	Н.	10 da	ay		2 week 1 week		1								5				Lab sampli	ng	
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TRIP BLANK_ 50			1	1				1				N	G	Х	X	X	Х	Х	Х					1 Trip	Blank	
MW-1375-050725	05/07/2	9:40						Q				Λ	C	X	X	X	X	Χ.	χ,	X					As for 8260D As for 8260D	
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Received in Laboratory by:

ARCADIS

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519/25 800

Definitions/Glossary

Client: Arcadis US Inc.

Job ID: 240-224110-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Eurofins Cleveland

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-224110-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_50

Date Received: 05/09/25 08:00

Lab Sample ID: 240-224110-1 Date Collected: 05/07/25 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/14/25 15:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/14/25 15:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/14/25 15:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/14/25 15:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/14/25 15:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/14/25 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		62 - 137			-		05/14/25 15:27	1
4-Bromofluorobenzene (Surr)	101		56 ₋ 136					05/14/25 15:27	1
Toluene-d8 (Surr)	97		78 - 122					05/14/25 15:27	1
Dibromofluoromethane (Surr)	104		73 - 120					05/14/25 15:27	1

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-224110-1

Project/Site: Ford LTP

Client Sample ID: MW-137S_050725

Date Collected: 05/07/25 09:40 Date Received: 05/09/25 08:00 Lab Sample ID: 240-224110-2

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			05/13/25 16:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		68 - 127			-		05/13/25 16:59	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			05/14/25 19:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/14/25 19:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/14/25 19:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/14/25 19:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/14/25 19:18	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/14/25 19:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		62 - 137			-		05/14/25 19:18	1
4-Bromofluorobenzene (Surr)	105		56 ₋ 136					05/14/25 19:18	1
Toluene-d8 (Surr)	94		78 - 122					05/14/25 19:18	1
Dibromofluoromethane (Surr)	104		73 - 120					05/14/25 19:18	1