

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 2/28/2025 5:21:55 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-219254-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





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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

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Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)966-9783

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TEF

TEQ

TNTC

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Qualifiers		3
GC/MS VOA Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	
Glossary		5
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	0
CNF	Contains No Free Liquid	Ο
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	9
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)	13
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	

Job ID: 240-219254-1

Job ID: 240-219254-1

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Job Narrative 240-219254-1

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 2/21/2025 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 1.3°C.

GC/MS VOA

Method 8260D: No MS/MSD reported with batch due to surrogate failure on the parent sample. Reanalyzing

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

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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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219254-1	TRIP BLANK_16	Water	02/19/25 00:00	02/21/25 08:00
240-219254-2	MW-171S_021925	Water	02/19/25 09:56	02/21/25 08:00

Detection Summary

Lab Sample ID: 240-219254-2

Lab Sample ID: 240-219254-1

No Detections.

Client: Arcadis US Inc.

Project/Site: Ford LTP

Client Sample ID: MW-171S_021925

Client Sample ID: TRIP BLANK_16

No Detections.



Client Sample ID: TRIP BLANK_16

Date Collected: 02/19/25 00:00 Date Received: 02/21/25 08:00

Method: SW846 8260D - Volatil	e Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/23/25 01:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/23/25 01:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/23/25 01:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/23/25 01:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/23/25 01:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/23/25 01:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		62 - 137			-		02/23/25 01:13	1
4-Bromofluorobenzene (Surr)	76		56 - 136					02/23/25 01:13	1
Toluene-d8 (Surr)	91		78 - 122					02/23/25 01:13	1
Dibromofluoromethane (Surr)	113		73 - 120					02/23/25 01:13	1

Job ID: 240-219254-1

Matrix: Water

Lab Sample ID: 240-219254-1

1 2 3 4 5 6 7 8 9

Eurofins Cleveland

Client Sample ID: MW-171S_021925

Date Collected: 02/19/25 09:56 Date Received: 02/21/25 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			02/24/25 22:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 127			-		02/24/25 22:26	1
Method: SW846 8260D - Volati	ile 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			02/23/25 01:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/23/25 01:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/23/25 01:36	1
rans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/23/25 01:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/23/25 01:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/23/25 01:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	128		62 - 137			-		02/23/25 01:36	1
4-Bromofluorobenzene (Surr)	77		56 - 136					02/23/25 01:36	1
Toluene-d8 (Surr)	97		78 - 122					02/23/25 01:36	1
Dibromofluoromethane (Surr)	116		73 - 120					02/23/25 01:36	1

2/28/2025

Job ID: 240-219254-1

Lab Sample ID: 240-219254-2 Matrix: Water

11 12

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

MW-171S_021925

Lab Control Sample

Method Blank

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

							,		
		DCA	BFB	TOL	DBFM				
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)				
240-219254-1	TRIP BLANK_16	124	76	91	113				_
240-219254-2	MW-171S_021925	128	77	97	116				
LCS 240-645749/4	Lab Control Sample	109	91	98	102				
MB 240-645749/10	Method Blank	124	81	94	113				
Surrogate Legend									- 1
DCA = 1,2-Dichloroetha	ane-d4 (Surr)								
BFB = 4-Bromofluorobe	enzene (Surr)								
TOL = Toluene-d8 (Sur	r)								
DBFM = Dibromofluoro	methane (Surr)								
/lethod: 8260D SIM	A - Volatile Organic Com	pounds (GC	/MS)						_ [
Aatrix: Water							Pre	p Type: Total	/NA
-				Percent Su	rrogate Recov	ery (Acceptan	ce Limits)		
		DCA							
Lab Sample ID	Client Sample ID	(68-127)							
240-219215-A-4 MS	Matrix Spike	101							_ [
240-219215-A-4 MSD	Matrix Spike Duplicate	101							

97

106

105

Surrogate Legend

240-219254-2

LCS 240-645906/4

MB 240-645906/5

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

Matrix: Water

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

MB MB

			1
	Job ID: 240-2 ⁻	19254-1	
Client Sa	ample ID: Metho Prep Type: 1		
			5
Prepared	Analyzed	Dil Fac	
	02/23/25 00:26	1	
	02/23/25 00:26	1	
	02/23/25 00:26	1	
	02/23/25 00:26	1	
	02/23/25 00:26	1	Q
	02/23/25 00:26	1	0
			9
Prepared	Analyzed	Dil Fac	
	02/23/25 00:26	1	10
	02/23/25 00:26	1	
	02/23/25 00:26	1	
	02/23/25 00:26	1	

Analyte

Analysis Batch: 645749

Lab Sample ID: MB 240-645749/10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/23/25 00:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/23/25 00:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/23/25 00:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/23/25 00:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/23/25 00:26	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/23/25 00:26	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		62 - 137		02/23/25 00:26	1
4-Bromofluorobenzene (Surr)	81		56 _ 136		02/23/25 00:26	1
Toluene-d8 (Surr)	94		78 - 122		02/23/25 00:26	1
Dibromofluoromethane (Surr)	113		73 - 120		02/23/25 00:26	1

Lab Sample ID: LCS 240-645749/4 Matrix: Water Analysis Batch: 645749

	Spike L	CS LCS		%Rec	
Analyte	Added Res	ult Qualifier Ur	nit D %Rec	Limits	
1,1-Dichloroethene	25.0 2	2.4 ug	/L 90	63 - 134	
cis-1,2-Dichloroethene	25.0 2	1.7 ug	/L 99	77 - 123	
Tetrachloroethene	25.0 2	3.5 ug	/L 94	76 - 123	
trans-1,2-Dichloroethene	25.0 2	3.1 ug	/L 92	75 _ 124	
Trichloroethene	25.0 2	1.7 ug	/L 99	70 - 122	
Vinyl chloride	25.0 2	5.5 ug	/L 102	60 - 144	
LC	S LCS				

%Recovery	Qualifier	Limits
109		62 - 137
91		56 - 136
98		78 - 122
102		73 - 120
	109 91 98	109 91 98

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

Lab Sample ID: MB 240-645906/5 Matrix: Water Analysis Batch: 645906							Client Sa	ample ID: Metho Prep Type: 1	
	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/24/25 18:02	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		68 - 127			-		02/24/25 18:02	1

Job ID: 240-219254-1

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

Lab Sample ID: LCS 240-64	5906/4						Client	Sample	D: Lab Co	ontrol S	ample
Matrix: Water									Prep 1	Type: To	tal/NA
Analysis Batch: 645906											
			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane			10.0	9.39		ug/L		94	75 - 121		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	106		68 - 127								
Lab Sample ID: 240-219215	-A-4 MS							Client	Sample ID	: Matrix	Spike
Matrix: Water									Prep 1	Type: To	tal/N/
Analysis Batch: 645906											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	2.0	U	10.0	10.3		ug/L		103	20 - 180		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	101		68 - 127								
Lab Sample ID: 240-219215	-A-4 MSD						Client Sa	ample IC): Matrix Sp	oike Dup	olicate
Matrix: Water									Prep 1	Type: To	tal/N/
Analysis Batch: 645906											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPI
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
1,4-Dioxane	2.0	U	10.0	9.72		ug/L		97	20 - 180	6	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	101		68 - 127								

GC/MS VOA

Analysis Batch: 645749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219254-1	TRIP BLANK_16	Total/NA	Water	8260D	
240-219254-2	MW-171S_021925	Total/NA	Water	8260D	
MB 240-645749/10	Method Blank	Total/NA	Water	8260D	
LCS 240-645749/4	Lab Control Sample	Total/NA	Water	8260D	
nalysis Batch: 64590		Bron Type	Motrix	Method	Bron Botoh
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
Lab Sample ID		Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
nalysis Batch: 64590 Lab Sample ID 240-219254-2 MB 240-645906/5	Client Sample ID				Prep Batch
Lab Sample ID 240-219254-2 MB 240-645906/5	Client Sample ID MW-171S_021925	Total/NA	Water	8260D SIM	Prep Batch
Lab Sample ID 240-219254-2	Client Sample ID MW-171S_021925 Method Blank	Total/NA Total/NA	Water Water	8260D SIM 8260D SIM	Prep Batch

Matrix: Water

Matrix: Water

Lab Sample ID: 240-219254-1

Lab Sample ID: 240-219254-2

Client Sample ID: TRIP BLANK_16 Date Collected: 02/19/25 00:00

Duto	Concolou.	02/10/20	00.00
Date	Received:	02/21/25	08.00

_	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	645749	MS	EET CLE	02/23/25 01:13

Client Sample ID: MW-171S_021925 Date Collected: 02/19/25 09:56

Date Received: 02/21/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	645749	MS	EET CLE	02/23/25 01:36
Total/NA	Analysis	8260D SIM		1	645906	CS	EET CLE	02/24/25 22:26

Laboratory References:

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

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Accreditation/Certification Summary

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

Laboratory: Eurofins Cleveland

aboratory: Eurofins Cle Il accreditations/certifications held by	y this laboratory are listed. Not all accreditations/ce	artifications are applicable to this repor	t.	
Authority	Program	Identification Number	Expiration Date	
California	State	2927	02-28-25	
Connecticut	State	PH-0806	12-31-26	
Georgia	State	4062	02-27-25	
Illinois	NELAP	200004	08-31-25	
lowa	State	421	06-01-25	
Kansas	NELAP	E-10336	01-31-26	
Kentucky (UST)	State	112225	02-27-25	
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	04-02-25	
Ohio	State	8303	11-04-25	
Ohio VAP	State	ORELAP 4062	02-27-25	
Oregon	NELAP	4062	02-27-25	
Pennsylvania	NELAP	68-00340	08-31-25	
Texas	NELAP	T104704517-22-19	08-31-25	
USDA	US Federal Programs	P330-18-00281	01-05-27	ſ
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



TestAmerica Laboratory location: Farmington Hills - 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

Client Contact	Regulat	tory program:		ſ	DW		∏ NI	PDES	ſ	RC	RA	F	Other	•							TestAmerica Laboratories, Inc		
Company Name: Arcadis	Client Project	Manager: Meg	an Me	ckley		-	Site Co	ntact: S	Samar	tha S	paichle	r		L	ab Co	itact:	Mike	DelMo	nico		1	COC No:	
ddress: 28550 Cabot Drive, Suite 500	Talashaan 248	004 3340					T.11	24		2240					-1 h-		0 407	0704					
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240					l eleph	one: 24	8-994-	-2240					elepho	ne: 33	0-49/-	9390				1 of 1 COCs	
	Email: kristoff	er.hinskey@ar	cadis.c	com			An	alysis T	wnar	ound	l'ime	- 1	-		-			Ana	yses	r	-	For lab use only	
'hone: 248-994-2240	Sampler Name						TATir	lifferent fr	om bele		1		100								-	Walk-in client	
Project Name: Ford LTP	Rebe		nst-	ìca	n					weeks weeks											1	T ab annaling	
Project Number: 30206169.0401.03	Method of Ship			0			10 c	ay		week			0						SIM		1	Lab sampling	
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·O # 053460021848	Shipping/Track	ang No:			_					uay		mple (Y / N)	Composite=C / Grab=G	9	cis-1,2-DCE 8260D	Irans-1,2-DUE 02000		LUE 02000	1,4-Dioxane 8260D			J00/SE/G N0.	
				M	atrix		C	ontainer	s & Pr	eserval	ives	Sam	te=	1,1-DCE 8260D	Ü S	,			ane		1	Contraction of the second s	
							3 2		=		2	Filtered Sa	sode	Ы С	2		PCE 8260D	Visual Chloriv	Noi			Sample Specific Notes /	
Sample Identification	Sample Date	Sample Time	Air	Aqueous Sediment	Solid	Othe	H2SO4	Ē	NaO ZaAd	Vapres Unpres	Othe	File	Con	1.1-	cis-1				1.4-1			Special Instructions:	
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MW-1715_021925	2/10/25	0950		6				Û				N	6	χ	XY	c	v I i	CY	rlν			3 VOAs for 8260D 3 VOAs for 8260D SIM	
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																			240-2	19254 COC			
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RC 2/19/25																							
Possible Hazard Identification					_		- Sam	ple Dir			may be		ad if a	ample		taine	dionge	r than	1 month				
Non-Hazard Clammable Cin Irritan	nt Poisc	on B 🗂	Jnkr	nown			Jain	Retur				Dispos					hive Fo			onths			
pecial Instructions/QC Requirements & Comments: 1210	DI Ropi	oster	Sł	. G	Q																		
submit all results through Cadena at Jtomalia@cadenaco.	.com. Cadena #E	203728	Я	. 6	9																		
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12 13 14	
13 14	
14	13
	14

VOA Sample Preservation - Date/Time VOAs Frozen.	Sample(s) Were further preserved in the laboratory Time preserved Preservative(s) added/Lot number(s) Preserved Preservative(s) added/Lot number(s) Preserved Preservative(s) added/Lot number(s) Preserved Preserved Preservative(s) added/Lot number(s) Preserved Preserved. Preserved Preserved Preserved. Preserved. Preserved. Preserved Preserved. Preserved. Preserved Preserved. Preser	20. SAMPLE PRESERVATION	Sample(s) were received after the recommended holding time had expired. Sample(s) were received in a broken container Sample(s) were received with bubble >6 mm in diameter (Notify PM)	PLE CONDITION	18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by	Concerning	Contacted PM Date by via Verbal Voice Mail Other	 13 Were all preserved sample(s) at the correct pH upon receipt? 14 Were VOAs on the COC? 15 Were air bubbles >6 mm in any VOA vials? 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 0125001 Yes No 17 Was a LL Hg or Me Hg trip blank present? 	10 were correct contle(s) used for the test(s) indicated and uses? Test No 11 Sufficient quantity received to perform indicated analyses? Test No 12. Are these work share samples and all listed on the COC? Yes (No 15 yes (Directions 13-17 have been checked at the originating laboratory) Yes (No	-	 3 Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? 5 Were the custody papers relinquished & signed in the appropriate place? 6. Was/were the person(s) who collected the samples clearly identified on the COC? 7 Eq. No 	Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Ics No -Were the seals on the outside of the cooler(s) signed & dated? Ics No NA -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/McHg)? Yes Ics No -Were tamper/custody seals intact and uncompromised? Ics No NA	COOLANT: We De Blue Ice Dry Ice Water None Cooler temperature upon receipt \Box See Multiple Coole IR GUN # 13 (CF 100 °C) Observed Cooler Temp 13 °C	Packing material used. Bubble Wrap Foam Plastic Bag None Other	Upened on <u>21 C</u>	Site Name Coo	Barberton Facility
--	--	-------------------------	---	---------------	---	------------	--	---	---	---	--	---	---	--	-----------------------	---------------	--------------------

WI-NC-099-123124 Cooler Receipt Form.doc



Temperature readings

	Voa Vial 40ml - Hydrochloric Acid	240-219254-F-2	MW-171S_021925
	Voa Vial 40ml - Hydrochloric Acid	240-219254-E-2	MW-171S_021925
	Voa Vial 40ml - Hydrochlorıc Acıd	240-219254-D-2	MW-171S_021925
	Voa Vial 40ml - Hydrochloric Acid	240-219254-C-2	MW-1718_021925
	Voa Vial 40ml - Hydrochloric Acid	240-219254-B-2	MW-171S_021925
	Voa Vial 40ml - Hydrochloric Acid	240-219254-A-2	MW-1718_021925
	Voa Vial 40ml - Hydrochloric Acid	240-219254-A-1	TRIP BLANK_16
Container Preservation Preservation pH Temp Added Lot Number	Container Type	Lab ID	<u>Client Sample ID</u>

DATA VERIFICATION REPORT



February 28, 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) 30206169.0401.04 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 219254-1 Sample date: 2025-02-19 Report received by CADENA: 2025-02-28 Initial Data Verification completed by CADENA: 2025-02-28 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, 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 <u>http://clms.cadenaco.com/index.cfm</u>.

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: 219254-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BL/ 240219 2/19/20	2541		Valid	MW-171 240219 2/19/20	2542	25	Valid
	Analyte	Cas No.	Result	Limit		Qualifier	Result	-	Units	Qualifier
GC/MS VOC										
<u>OSW-826</u>	<u>0D</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		ND	1.0	ug/l	
<u>OSW-826</u>	<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 # 240-219254-1 CADENA Verification Report: 2025-02-28

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 58429R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-219254-1 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		
		Watrix	Collection Date		voc	VOC SIM	
TRIP BLANK_16	240-219254-1	Water	02/19/2025		Х		
MW-171S_021925	240-219254-2	Water	02/19/2025		Х	Х	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

DATA REVIEW

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 REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (C	SC/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation	1	1			1
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:

Pails

DATE: March 20, 2025

PEER REVIEW: Andrew Korycinski

DATE: March 26, 2025

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS





Chain of Custody Record



TestAmerica Laboratory location: Farmington Hills - 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

Client Contact	Regulat	ory program:		ľ.,	DW		□ NF	DES	٢	RC	RA	F	Other									
Company Name: Arcadis	Client Project	Manager: Mega	n Mee	kley		-	Site Co	ntact: S	Saman	tha Sz	paichle	r		La	b Cont:	nct: M	ike Del	Monic	:0		TestAmerica Laboratories, I COC No:	
ddress: 28550 Cabot Drive, Suite 500	Telephone: 248	004 3340					Talashasa 248 004 2240					- T-1	Telephone: 330-497-9396									
City/State/Zip: Novi, MI, 48377	l elephone: 248	-994-2240					Telephone: 248-994-2240 T				Te	1 of 1 COCs										
	Email: kristoff	Email: kristoffer.hinskey@arcadis.com			An	alysis T	urnar	ound	ime	T	-		Analyses					For lab use only				
hone: 248-994-2240	Sampler Name					_	TATire	lifferent fr	om belo		1	11									Walk-in client	
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				aus Inc			3 3		=	- 5	5	Filtered Sa	sodu	2 2	s - s	PCE 8260D	TCE 8260D	5	Dio		Sample Specific Notes /	
Sample Identification	Sample Date	Sample Time	Air	Aqueous Sediment	Solid	Othe	H2SO4 HNO3	ΗC	NaO ZaAc	Vapres Unpres	Othe	File	C C	- i	Trar	PCE	1CE	Viny	1.4		Special Instructions:	
TRIP BLANK_				1	Π			1			Ī	N	G)	< X	x x	X	X	x			1 Trip Blank	
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MW-1715_021925	2/19/25	0950		ß				Û				\mathbb{N}	63	4 3	$q \times$	X	X	X	Y I		3 VOAs for 8260D SIM	
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Submit all results through Cadena at jtomalia@cadenaco. .evel IV Reporting requested.	.com. Cadena #E	203728		-																		
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PRES

QC RER

RL

RPD

TEF

TEQ

TNTC

Presumptive Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Qualifiers		3
GC/MS VOA Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	
Glossary		5
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	8
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	0
Dil Fac	Dilution Factor	3
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)	13
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	

Client Sample ID: TRIP BLANK_16

Date Collected: 02/19/25 00:00 Date Received: 02/21/25 08:00

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			02/23/25 01:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/23/25 01:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/23/25 01:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/23/25 01:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/23/25 01:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/23/25 01:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		62 - 137			-		02/23/25 01:13	1
4-Bromofluorobenzene (Surr)	76		56 - 136					02/23/25 01:13	1
Toluene-d8 (Surr)	91		78 - 122					02/23/25 01:13	1
Dibromofluoromethane (Surr)	113		73 - 120					02/23/25 01:13	1

Job ID: 240-219254-1

Lab Sample ID: 240-219254-1

Matrix: Water

Eurofins Cleveland

> **8** 9

Client Sample ID: MW-171S_021925

Date Collected: 02/19/25 09:56 Date Received: 02/21/25 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			02/24/25 22:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 127			-		02/24/25 22:26	1
Method: SW846 8260D - Volati	ile Organic Comp	ounds by G	C/MS						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/23/25 01:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/23/25 01:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/23/25 01:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/23/25 01:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/23/25 01:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/23/25 01:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	128		62 - 137			-		02/23/25 01:36	1
4-Bromofluorobenzene (Surr)	77		56 - 136					02/23/25 01:36	1
Toluene-d8 (Surr)	97		78 - 122					02/23/25 01:36	1
Dibromofluoromethane (Surr)	116		73 - 120					02/23/25 01:36	1

2/28/2025

Job ID: 240-219254-1

Lab Sample ID: 240-219254-2 Matrix: Water

11 12