

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 3/4/2025 6:25:01 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-219426-1

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

RPD

TEF

TEQ

TNTC

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)	
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)	13 14
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)	

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

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-219426-1

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Job Narrative 240-219426-1

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 2/26/2025 8:49 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 2.6°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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Client: Arcadis US Inc. Project/Site: Ford LTP

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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

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219426-1	TRIP BLANK_154	Water	02/24/25 00:00	02/26/25 08:49
240-219426-2	MW-107S_022425	Water	02/24/25 14:50	02/26/25 08:49

Detection Summary

Job ID: 240-219426-1

Lab Sample ID: 240-219426-1

No Detections.

Client: Arcadis US Inc.

Project/Site: Ford LTP

Client Sample ID: MW-107S_022425

Client Sample ID: TRIP BLANK_154

No Detections.

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

Client Sample ID: TRIP BLANK_154

Date Collected: 02/24/25 00:00 Date Received: 02/26/25 08:49

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			02/28/25 17:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/28/25 17:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/28/25 17:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/28/25 17:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/28/25 17:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/28/25 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137			-		02/28/25 17:43	1
4-Bromofluorobenzene (Surr)	93		56 - 136					02/28/25 17:43	1
Toluene-d8 (Surr)	98		78 - 122					02/28/25 17:43	1
Dibromofluoromethane (Surr)	102		73 - 120					02/28/25 17:43	1

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Lab Sample ID: 240-219426-1

Matrix: Water

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Client Sample ID: MW-107S_022425

Date Collected: 02/24/25 14:50 Date Received: 02/26/25 08:49

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/28/25 11:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			-		02/28/25 11:51	1
Method: SW846 8260D - Volat	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			02/28/25 20:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/28/25 20:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/28/25 20:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/28/25 20:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/28/25 20:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/28/25 20:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			-		02/28/25 20:27	1
4-Bromofluorobenzene (Surr)	85		56 ₋ 136					02/28/25 20:27	1
Toluene-d8 (Surr)	94		78 - 122					02/28/25 20:27	1
Dibromofluoromethane (Surr)	101		73 - 120					02/28/25 20:27	1

3/4/2025

Lab Sample ID: 240-219426-2 Matrix: Water

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

Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) DCA BFB TOL DBFM 5 **Client Sample ID** (62-137) (56-136) (78-122) (73-120) Lab Sample ID TRIP BLANK_154 240-219426-1 103 98 102 93 MW-107S_022425 240-219426-2 101 85 94 101 240-219557-A-2 MS Matrix Spike 96 97 97 95 240-219557-B-2 MSD Matrix Spike Duplicate 99 99 101 100 240-219557-F-2 DU Duplicate 98 87 95 98 LCS 240-646428/5 Lab Control Sample 99 104 100 98 MB 240-646428/9 Method Blank 98 88 99 97 9 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		
Client Sample ID	(68-127)		
MW-107S_022425	104		
Matrix Spike	104		
Matrix Spike Duplicate	104		
Lab Control Sample	95		
Method Blank	99		
	MW-107S_022425 Matrix Spike Matrix Spike Duplicate Lab Control Sample	Client Sample ID(68-127)MW-107S_022425104Matrix Spike104Matrix Spike Duplicate104Lab Control Sample95	DCAClient Sample ID(68-127)MW-107S_022425104Matrix Spike104Matrix Spike Duplicate104Lab Control Sample95

Surrogate Legend

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

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

	•	
—		
Laborate ID MD 040 0404	00/0	
Lab Sample ID: MB 240-6464	28/9	
•		

Matrix: Water Analysis Batch: 646428

	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/28/25 13:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/28/25 13:29	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/28/25 13:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/28/25 13:29	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/28/25 13:29	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/28/25 13:29	1

	INID					
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137		02/28/25 13:29	1
4-Bromofluorobenzene (Surr)	88		56 _ 136		02/28/25 13:29	1
Toluene-d8 (Surr)	99		78 _ 122		02/28/25 13:29	1
Dibromofluoromethane (Surr)	97		73 - 120		02/28/25 13:29	1

Lab Sample ID: LCS 240-646428/5 Matrix: Water Analysis Batch: 646428

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	17.5		ug/L		87	63 - 134	
cis-1,2-Dichloroethene	20.0	17.9		ug/L		90	77 - 123	
Tetrachloroethene	20.0	18.2		ug/L		91	76 - 123	
trans-1,2-Dichloroethene	20.0	17.8		ug/L		89	75 - 124	
Trichloroethene	20.0	18.0		ug/L		90	70 - 122	
Vinyl chloride	20.0	18.6		ug/L		93	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	104		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

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Lab Sample ID: 240-219557-A-2 MS Matrix: Water

Analysis Batch: 646428

Toluene-d8 (Surr)

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	20.0	17.9		ug/L		89	56 - 135	
cis-1,2-Dichloroethene	1.0	U	20.0	17.9		ug/L		89	66 _ 128	
Tetrachloroethene	1.0	U	20.0	18.7		ug/L		94	62 _ 131	
trans-1,2-Dichloroethene	1.0	U	20.0	17.4		ug/L		87	56 - 136	
Trichloroethene	1.0	U	20.0	17.4		ug/L		87	61 _ 124	
Vinyl chloride	1.0	U	20.0	19.3		ug/L		97	43 - 157	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	96		62 - 137							
4-Bromofluorobenzene (Surr)	97		56 - 136							

Job ID: 240-219426-1

Client Sample ID: Method Blank Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

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78 - 122

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

Lab Sample ID: 240-219557- Matrix: Water Analysis Batch: 646428	A-2 MS							Client	Sample ID Prep 1	: Matrix Type: To	
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
Dibromofluoromethane (Surr)	95		73 - 120								
Lab Sample ID: 240-219557-	B-2 MSD						Client Sa	mple ID	: Matrix Sp	oike Dur	olicate
Matrix: Water										· ype: To	
Analysis Batch: 646428											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	20.0	18.7		ug/L		93	56 - 135	4	26
cis-1,2-Dichloroethene	1.0	U	20.0	18.3		ug/L		92	66 - 128	3	14
Tetrachloroethene	1.0	U	20.0	18.6		ug/L		93	62 - 131	0	20
trans-1,2-Dichloroethene	1.0	U	20.0	18.4		ug/L		92	56 - 136	5	15
Trichloroethene	1.0	U	20.0	17.8		ug/L		89	61 - 124	2	15
Vinyl chloride	1.0	U	20.0	18.9		ug/L		95	43 - 157	2	24
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	99		62 - 137								
4-Bromofluorobenzene (Surr)	99		56 - 136								
Toluene-d8 (Surr)	101		78 - 122								
Dibromofluoromethane (Surr)	100		73 - 120								
Lab Sample ID: 240-219557-	F-2 DU							Clie	ent Sample	ID: Dup	olicate
Matrix: Water									Prep 1	ype: To	tal/NA
Analysis Batch: 646428											
	Sample	Sample		DU	DU						RPD
Analyte	Result	Qualifier		Result	Qualifier	Unit	D			RPD	Limi
1,1-Dichloroethene	1.0	U		1.0	U	ug/L	-	-	_	NC	_
cis-1,2-Dichloroethene	1.0	U		1.0	U	ug/L				NC	
Tetrachloroethene	1.0	U		1.0	U	ug/L				NC	
trans-1,2-Dichloroethene	1.0	U		1.0	U	ug/L				NC	
Trichloroethene	1.0	U		1.0	U	ug/L				NC	
Vinyl chloride	1.0	U		1.0	U	ug/L				NC	
	DU	DU									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	98		62 - 137								
4-Bromofluorobenzene (Surr)	87		56 - 136								
Toluene-d8 (Surr)	95		78 - 122								
Dibromofluoromethane (Surr)	98		73 - 120								

Lab Sample ID: MB 240-646369/5 Matrix: Water						Client Sa	ample ID: Metho Prep Type: ⁻	
Analysis Batch: 646369								
МВ	МВ							
Analyte Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane 2.0	U	2.0	0.86	ug/L			02/28/25 07:30	1

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Job ID: 240-219426-1

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

Lab Sample ID: MB 240-646 Matrix: Water Analysis Batch: 646369	369/5							Client S	ample ID: I Prep T	Method Type: To	
Analysis Datch. 040000											
Surrogate	%Reco	MB MB very Qualifier	Limits				-	repared	Analyz	ad	Dil Fac
1,2-Dichloroethane-d4 (Surr)	////////////////////////////////	99 guanner	<u>68 - 127</u>					repareu			1 Dii Fac
Lab Sample ID: LCS 240-646 Matrix: Water	6369/4						Client	Sample	ID: Lab Co Prep T	ontrol Sa ype: To	
Analysis Batch: 646369											
			Spike	LCS	LCS				%Rec		
Analyte		. <u></u>	Added		Qualifier	Unit	<u>D</u>	%Rec	Limits		
1,4-Dioxane			10.0	9.32		ug/L		93	75 - 121		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	95		68 - 127								
_ Lab Sample ID: 240-219434-	B-5 MS							Client	Sample ID:	: Matrix	Spike
Matrix: Water									Prep T	ype: To	tal/NA
Analysis Batch: 646369											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	2.0	U	10.0	10.2		ug/L		102	20 - 180		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	104		68 - 127								
- Lab Sample ID: 240-219434-	B-5 MSD						Client Sa	ample IC): Matrix Sp	oike Dur	olicate
Matrix: Water										· ype: To	
Analysis Batch: 646369											
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	11.1		ug/L		111	20 - 180	9	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)			68 - 127								

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GC/MS VOA

Analysis Batch: 646369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219426-2	MW-107S_022425	Total/NA	Water	8260D SIM	
MB 240-646369/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-646369/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-219434-B-5 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-219434-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
240-219426-1	TRIP BLANK 154	Total/NA	Water	8260D	
Lab Sample ID 240-219426-1	Client Sample ID	Prep Type Total/NA	Matrix Water	Method 8260D	Prep Batch
	MW-107S_022425	Total/NA	Water	8260D	
240-219426-2	-		Water Water		
240-219426-2 MB 240-646428/9 _CS 240-646428/5	 MW-107S_022425	Total/NA		8260D	
240-219426-2 MB 240-646428/9 LCS 240-646428/5	MW-107S_022425 Method Blank	Total/NA Total/NA	Water	8260D 8260D	
240-219426-2 MB 240-646428/9	MW-107S_022425 Method Blank Lab Control Sample	Total/NA Total/NA Total/NA	Water Water	8260D 8260D 8260D	

12 13

Client Sample ID: TRIP BLANK_154 Lab Sample ID: 240-219426-1 Date Collected: 02/24/25 00:00 Matrix: Water Date Received: 02/26/25 08:49 Dilution Batch Batch Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed Total/NA 8260D 646428 AJS EET CLE 02/28/25 17:43 Analysis 1 Client Sample ID: MW-107S_022425 Lab Sample ID: 240-219426-2 Date Collected: 02/24/25 14:50 Matrix: Water Date Received: 02/26/25 08:49 Batch Batch Dilution Batch Prepared

Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	646428	AJS	EET CLE	02/28/25 20:27
Total/NA	Analysis	8260D SIM		1	646369	CS	EET CLE	02/28/25 11:51

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

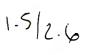
Laboratory: Eurofins Cleveland

aboratory: Eurofins Cle	eveland y this laboratory are listed. Not all accreditations/ce	ertifications are applicable to this repor	t.	
Authority	Program	Identification Number	Expiration Date	1
California	State	2927	02-28-25	,
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 (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	04-01-25	
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	
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	

Eurofins Cleveland



Chain of Custody Record





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

Client Contact	Regulat	ory program:	:	1	DW		E N	PDES		∏ R	CRA	ſ	Oth	er										
Company Name: Arcadis	Client Project 1	Manager: Meg	an Me	ckley		_	Site C	ontact:	Same	antha	Sznaic	hler	_		LahC	ontac	t: Mike	Dell	Monico					TestAmerica Laboratori COC No:
ddress: 28550 Cabot Drive, Suite 500			an wie	LKICY								mer												
14. 104. 4. 771 - No. 1 843 40222	Telephone: 248	-994-2240					Telep	hone: 2	48-99	4-2240	l .				Telep	hone:	330-49	7-939	6					1 of 1 COC
City/State/Zip: Novi, MI, 48377	Email: kristoff	er.hinskey@ar	cadis.c	om		-	A	nalysis	Tarn	around	Time	-			Analyses						For lab use only			
'hone: 248-994-2240						_				-	-											Walk-in client		
Project Name: Ford LTP	Sampler Name		~ ~	,			TATE	different		elow 3 wcel	s L	-												Walk-In Cocht
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				Aqueous Sediment	Solid	her:	H2S04	HICI HICI	NAOH	ZnAd NaDH	Other:	Filtered Semule (V / N)	Composite=C / Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				Sample Specific Notes Special Instructions
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19 SAMPLE CONDITION Sample(s)

WI-NC 099-123124 Cooler Receipt Form.doc



Temperature readings

MW-107S_022425	MW-1078_022425	MW-107S_022425	MW-1078_022425	MW-107S_022425	MW-1078_022425	TRIP BLANK_154	Client Sample ID
240-219426-F-2	240-219426-E-2	240-219426-D-2	240-219426-C-2	240-219426-B-2	240-219426-A-2	240-219426-A-1	<u>Lab ID</u>
Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochlorıc Acıd	Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochloric Acid	Container Type
							Container Preservation Preservation pH Temp Added Lot Number

DATA VERIFICATION REPORT



March 04, 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: 219426-1 Sample date: 2025-02-24 Report received by CADENA: 2025-03-04 Initial Data Verification completed by CADENA: 2025-03-04 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: 219426-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BL/ 240219 2/24/20	4261 25		Valid	MW-107 240219 2/24/20	4262 25	25	Valid
	Analyte	Cas No.	Result	Report Limit		Qualifier	Result	Report Limit	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 # 240-219426-1 CADENA Verification Report: 2025-03-04

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 58458R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-219426-1 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
		Maurix	Collection Date		VOC SIM	
TRIP BLANK_154	240-219426-1	Water	02/24/2025		Х	
MW-107S_022425	240-219426-2	Water	02/24/2025		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfor Accep		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	Nequireu	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)					
Tier II Validation						
Holding times/Preservation		Х		X		
Tier III Validation		1		-		
System performance and column resolution		Х		X		
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		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

SIGNATURE:

Parts	
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DATE: March 21, 2025

PEER REVIEW: Andrew Korycinski

DATE: March 26, 2025

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

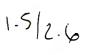


CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS





Chain of Custody Record





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

Client Contact	Regulat	ory program:		1	DW		E N	PDES		∏ R	CRA	ſ	Oth	er										
Company Name: Arcadis	Client Project 1	Manager: Meg	an Me	ckley		_	Site C	ontact:	Same	antha	Sznaic	hler	_		LahC	ontac	t: Mike	Dell	Monico					TestAmerica Laboratori COC No:
ddress: 28550 Cabot Drive, Suite 500			an wie	LKICY								mer												
14. 104. 4. 771 - No. 1 843 40222	Telephone: 248	-994-2240					Telep	hone: 2	48-99	4-2240	l .				Telephone: 330-497-9396					1 of 1 COC				
City/State/Zip: Novi, MI, 48377	Email: kristoff	er.hinskey@ar	cadis.c	om		-	Analysis Turnaround Time				Analyses					For lab use only								
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				Aqueous Sediment	Solid	her:	H2S04	HICI HICI	NAOH	ZnAd NaDH	Other:	Filtered Semule (V / N)	Composite=C / Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				Sample Specific Notes Special Instructions
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Client: Arcadis US Inc. Project/Site: Ford LTP

RPD

TEF

TEQ

TNTC

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)	
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)	13 14
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)	

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

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

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

Client Sample ID: TRIP BLANK_154

Date Collected: 02/24/25 00:00 Date Received: 02/26/25 08:49

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			02/28/25 17:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/28/25 17:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/28/25 17:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/28/25 17:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/28/25 17:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/28/25 17:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137			-		02/28/25 17:43	1
4-Bromofluorobenzene (Surr)	93		56 - 136					02/28/25 17:43	1
Toluene-d8 (Surr)	98		78 - 122					02/28/25 17:43	1
Dibromofluoromethane (Surr)	102		73 - 120					02/28/25 17:43	1

Eurofins Cleveland

Lab Sample ID: 240-219426-1

Matrix: Water

5

8 9

Client Sample ID: MW-107S_022425

Date Collected: 02/24/25 14:50 Date Received: 02/26/25 08:49

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/28/25 11:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			-		02/28/25 11:51	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/28/25 20:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/28/25 20:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/28/25 20:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/28/25 20:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/28/25 20:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/28/25 20:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			-		02/28/25 20:27	1
4-Bromofluorobenzene (Surr)	85		56 - 136					02/28/25 20:27	1
Toluene-d8 (Surr)	94		78 - 122					02/28/25 20:27	1
Dibromofluoromethane (Surr)	101		73 - 120					02/28/25 20:27	1

3/4/2025

Lab Sample ID: 240-219426-2 Matrix: Water

 $\frac{1}{Fac} = \frac{5}{6}$