

**Environment Testing** 

# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 2/21/2025 7:47:08 AM

# JOB DESCRIPTION

Ford LTP

# **JOB NUMBER**

240-218946-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





# **Eurofins Cleveland**

#### Job Notes

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

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

Authorization

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Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396

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

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.	6
₿ ¢	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)	
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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# Job Narrative 240-218946-1

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 2/14/2025 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 2.3°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

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
240-218946-1	TRIP BLANK_54	Water	02/12/25 00:00	02/14/25 08:00
240-218946-2	MW-126S_021225	Water	02/12/25 12:00	02/14/25 08:00

Lab Sample ID: 240-218946-1

Lab Sample ID: 240-218946-2

No Detections.

Client: Arcadis US Inc.

Project/Site: Ford LTP

#### Client Sample ID: MW-126S\_021225

Client Sample ID: TRIP BLANK\_54

No Detections.

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

#### Client Sample ID: TRIP BLANK\_54

Date Collected: 02/12/25 00:00 Date Received: 02/14/25 08:00

	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			02/17/25 16:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/17/25 16:51	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 16:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/17/25 16:51	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 16:51	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/17/25 16:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137			-		02/17/25 16:51	1
4-Bromofluorobenzene (Surr)	92		56 - 136					02/17/25 16:51	1
Toluene-d8 (Surr)	103		78 - 122					02/17/25 16:51	1
Dibromofluoromethane (Surr)	95		73 - 120					02/17/25 16:51	1

2/21/2025

Lab Sample ID: 240-218946-1 Matrix: Water

#### Client Sample ID: MW-126S\_021225

Date Collected: 02/12/25 12:00 Date Received: 02/14/25 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			02/19/25 17:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		68 - 127			-		02/19/25 17:02	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			02/17/25 19:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/17/25 19:00	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 19:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/17/25 19:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 19:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/17/25 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			-		02/17/25 19:00	1
4-Bromofluorobenzene (Surr)	97		56 _ 136					02/17/25 19:00	1
Toluene-d8 (Surr)	99		78 - 122					02/17/25 19:00	1
Dibromofluoromethane (Surr)	98		73 - 120					02/17/25 19:00	1

Matrix: Water

Lab Sample ID: 240-218946-2

Job ID: 240-218946-1

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

#### Percent Surrogate Recovery (Acceptance Limits) DCA BFB TOL DBFM Lab Sample ID Client Sample ID (62-137) (56-136) (78-122) (73-120) 240-218778-B-7 MS Matrix Spike 98 94 100 97 240-218778-B-7 MSD Matrix Spike Duplicate 101 98 100 102 240-218946-1 TRIP BLANK\_54 96 92 103 95 MW-126S\_021225 98 240-218946-2 101 97 99 LCS 240-644989/5 Lab Control Sample 101 99 99 98 MB 240-644989/10 Method Blank 101 95 98 95 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

		DCA	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(68-127)	
240-218946-2	MW-126S 021225	100	
240-218947-G-2 MS	_ Matrix Spike	99	
240-218947-G-2 MSD	Matrix Spike Duplicate	100	
LCS 240-645425/4	Lab Control Sample	99	
MB 240-645425/7	Method Blank	99	

#### Surrogate Legend

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

2/21/2025

Prep Type: Total/NA

Prep Type: Total/NA

13

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

#### Matrix: Water Analysis Batch: 644989

	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			02/17/25 14:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/17/25 14:25	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 14:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/17/25 14:25	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 14:25	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/17/25 14:25	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		02/17/25 14:25	1
4-Bromofluorobenzene (Surr)	95		56 _ 136		02/17/25 14:25	1
Toluene-d8 (Surr)	98		78 - 122		02/17/25 14:25	1
Dibromofluoromethane (Surr)	95		73 - 120		02/17/25 14:25	1

#### Lab Sample ID: LCS 240-644989/5 Matrix: Water Analysis Batch: 644989

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	17.6		ug/L		88	63 - 134	
cis-1,2-Dichloroethene	20.0	18.6		ug/L		93	77 - 123	
Tetrachloroethene	20.0	19.8		ug/L		99	76 - 123	
trans-1,2-Dichloroethene	20.0	18.0		ug/L		90	75 - 124	
Trichloroethene	20.0	20.4		ug/L		102	70 - 122	
Vinyl chloride	20.0	16.2		ug/L		81	60 - 144	

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

94

97

#### Lab Sample ID: 240-218778-B-7 MS Matrix: Water Analysis Batch: 644989

4-Bromofluorobenzene (Surr)

Toluene-d8 (Surr)

-	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	4.0	U	80.0	67.6		ug/L		85	56 - 135
cis-1,2-Dichloroethene	67		80.0	143		ug/L		96	66 - 128
Tetrachloroethene	91		80.0	164		ug/L		92	62 - 131
trans-1,2-Dichloroethene	4.0	U	80.0	70.2		ug/L		88	56 - 136
Trichloroethene	12		80.0	91.4		ug/L		99	61 - 124
Vinyl chloride	15		80.0	77.7		ug/L		79	43 - 157
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	98		62 - 137						

Job ID: 240-218946-1

Prep Type: Total/NA

**Client Sample ID: Method Blank** 

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

**Client Sample ID: Matrix Spike** 

Prep Type: Total/NA

56 - 136

78 - 122

Matrix: Water

Prep Type: Total/NA

10

#### **Client Sample ID: Matrix Spike** Prep Type: Total/NA

**Client Sample ID: Matrix Spike Duplicate** 

Analysis Batch: 644989			
	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	100		73 - 120

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

#### Lab Sample ID: 240-218778-B-7 MSD Matrix: Water

Lab Sample ID: 240-218778-B-7 MS

#### Analysis Batch: 644989

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	4.0	U	80.0	69.8		ug/L		87	56 - 135	3	26
cis-1,2-Dichloroethene	67		80.0	145		ug/L		98	66 - 128	1	14
Tetrachloroethene	91		80.0	176		ug/L		106	62 - 131	7	20
trans-1,2-Dichloroethene	4.0	U	80.0	70.0		ug/L		87	56 - 136	0	15
Trichloroethene	12		80.0	96.3		ug/L		105	61 - 124	5	15
Vinyl chloride	15		80.0	79.4		ug/L		81	43 - 157	2	24
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	101		62 - 137								
4-Bromofluorobenzene (Surr)	98		56 - 136								
Toluene-d8 (Surr)	100		78 - 122								
Dibromofluoromethane (Surr)	102		73 - 120								

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

Lab Sample ID: MB 240-645425 Matrix: Water	5/7										Client S	Sample ID: Metho Prep Type: 1	
Analysis Batch: 645425													
		ΜВ	мв										
Analyte	R	esult	Qualifier	F	L	MDL	Unit		D	P	repared	Analyzed	Dil Fa
1,4-Dioxane		2.0	U	2	.0	0.86	ug/L					02/19/25 14:41	
		MB	МВ										
Surrogate	%Reco	very	Qualifier	Limits						P	repared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)		99		68 - 127	_				_			02/19/25 14:41	
Lab Sample ID: LCS 240-64542	5/4								Cli	ient	Sample	ID: Lab Control	Sample
Matrix: Water												Prep Type:	
Analysis Batch: 645425													
				Spike	LCS	LCS						%Rec	
Analyte				Added	Result	Qual	ifier	Unit		D	%Rec	Limits	
1,4-Dioxane				10.0	9.96			ug/L		_	100	75 - 121	
	LCS	LCS											
Surrogate	%Recovery	Qual	ifier	Limits									
	99			68 - 127									
1,2-Dichloroethane-d4 (Surr) _													
											Client	Sample ID: Matr	x Spike
1,2-Dichloroethane-d4 (Surr) - Lab Sample ID: 240-218947-G-2 Matrix: Water											Client	Sample ID: Matr Prep Type: 1	
 Lab Sample ID: 240-218947-G-2											Client	Sample ID: Matr Prep Type: 1	
Lab Sample ID: 240-218947-G-2 Matrix: Water		Samı	ble	Spike	MS	MS					Client		
Lab Sample ID: 240-218947-G-2 Matrix: Water	2 MS			Spike Added	MS Result		ifier	Unit		D	Client %Rec	Prep Type: 1	

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Job ID: 240-218946-1

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	99		68 - 127								
Lab Sample ID: 240-218947-	G-2 MSD					(	Client Sa	ample IC	): Matrix Sp	oike Dup	olicate
Matrix: Water									Prep T	ype: To	tal/NA
Analysis Batch: 645425											
	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	9.32		ug/L		93	20 - 180	2	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)			68 - 127								

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#### GC/MS VOA

#### Analysis Batch: 644989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218946-1	TRIP BLANK_54	Total/NA	Water	8260D	
240-218946-2	MW-126S_021225	Total/NA	Water	8260D	
MB 240-644989/10	Method Blank	Total/NA	Water	8260D	
CS 240-644989/5	Lab Control Sample	Total/NA	Water	8260D	
240-218778-B-7 MS	Matrix Spike	Total/NA	Water	8260D	
		<b>T</b> ( 1010	Matar	8260D	
240-218778-B-7 MSD nalysis Batch: 645425	Matrix Spike Duplicate	Total/NA	Water	82000	
nalysis Batch: 645425	5				Prep Batch
nalysis Batch: 645425 _ab Sample ID		Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
nalysis Batch: 645425 Lab Sample ID 240-218946-2	5 Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
nalysis Batch: 645425 Lab Sample ID 240-218946-2 MB 240-645425/7	5 Client Sample ID MW-126S_021225	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
	5 Client Sample ID MW-126S_021225 Method Blank	Prep Type Total/NA Total/NA	Matrix Water Water	Method 8260D SIM 8260D SIM	Prep Batch

#### Client Sample ID: TRIP BLANK\_54 Lab Sample ID: 240-218946-1 Date Collected: 02/12/25 00:00 Matrix: Water Date Received: 02/14/25 08:00 Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor Number Analyst Lab or Analyzed Total/NA 8260D 644989 AJS EET CLE 02/17/25 16:51 Analysis 1 Client Sample ID: MW-126S\_021225 Lab Sample ID: 240-218946-2 Date Collected: 02/12/25 12:00 Matrix: Water Date Received: 02/14/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	644989	AJS	EET CLE	02/17/25 19:00
Total/NA	Analysis	8260D SIM		1	645425	R5XG	EET CLE	02/19/25 17:02

#### Laboratory References:

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

**12** 13

#### Accreditation/Certification Summary

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

#### Laboratory: Eurofins Cleveland

aboratory: Eurofins Cle I accreditations/certifications held by	y this laboratory are listed. Not all accreditations/cer	ertifications 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	I
Virginia	NELAP	460175	09-14-25	
West Virginia DEP	State	210	12-31-25	
Wisconsin	State	399167560	08-31-25	

**Eurofins Cleveland** 

MICHIGAN	Chain of Custody Record
TestAmerica Laboratory location:	Farmington Hills — 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331



HE LEADER

Client Contact Company Name: Arcadis		ory program:		П			NP			RCF		<b>C</b>	1								tAmerica Laboratories, l
ddress: 28550 Cabot Drive, Suite 500	Client Project	Manager: Mcg	an Meckl	cÿ		Site	e Cor	atact: S	Saman	tha Szp	aichler			Lab (	Contact	: Mike	DelMo	onico		CO	C No:
	Telephone: 248	-994-2240				Tel	cpho	nc: 24	8-994-:	2240				Telep	hone: 3	30-49	7-9396	-			
City/State/Zip: Novi, M1, 48377	Email: kristoff	er.hinskey@ar	cadie con				An	Ivers I		and T	anc .		_				Ana	lyse		For	1 of 1 COCs lab use only
Phone: 248-994-2240	Email: Kriston	cr.minskey@ar	cauis.con																		
Project Name: Ford LTP	Sampler Name	i la cono i	N	1.	~	TA	T if di	fferent fr		w weeks										Wal	k-in client
		Derimy	- {1	hw	<u>)</u>		10 di	ay	🖻 2 v	weeks										Lab	sampling
roject Number: 30206169.0401.03	Method of Ship	ment/Carrier:										2			8				N S		
O # US3460021848	Shipping/Track	ting No:							F 10			N		60D	8260D			200	8	Job/	SDG No:
				Mati	rix		C.	atainer	s & Pre	servatio	-	1dm	2601	E 82	DCE			epi	le 83	100	Contraction of the local division of the loc
Sample Identification	Sample Date	Sample Time	Air Aqueous	Sediment	Solid Other:	12504	HN03	HCI	NaOH ZaAd	NeOH Unpres	Other:	Filtered Sample (Y / N)	Composite-C/ Grab-G 1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE 8260D		1.4-Dioxane 8260D SIM		Sample Specific Notes / Special Instructions:
TRIP BLANK_ 54			1			T		1				NC	зx	-				x			Trip Blank
MW-1265_021225	02/12/25	12:00	6	$\square$			$\uparrow$	G				N	5 7	8	X	X	XX		X		VOAs for 8260D
	00/10	12.00			+	+	-		+			1.		-1		-1		<u> </u>			3 VOAs for 8260D SIM
				$\left  \right $			+	$\square$	_					-		_	-	4			
																		2.0.0			
				$\square$												-	1	F	<i>н</i> Т		
	-			+		_	+-	+					-	-		-		A			
																	-				
								$\square$								_	240-2	189	46 COC		
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14

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

# 13

14

240-218946

# Temperature readings

2/14/2025

MW-126S_021225	MW-126S_021225	MW-126S_021225	MW-1265_021225	MW-1265_021225	MW-126S_021225	TRIP BLANK_54	<u>Client Sample ID</u>
240-218946-G-2	240-218946-E-2	240-218946-D-2	240-218946-C-2	240-218946-B-2	240-218946-A-2	240-218946-A-1	Lab ID
Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochlorsc Acid	Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochlorıc Acid	Voa Vial 40ml - Hydrochlorıc Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Container Type
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							<u>Container</u> <u>Preservation</u> pH <u>Temp Added</u> Lot Number

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# **DATA VERIFICATION REPORT**



February 21, 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: 218946-1 Sample date: 2025-02-12 Report received by CADENA: 2025-02-21 Initial Data Verification completed by CADENA: 2025-02-21 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: 218946-1

		Sample Name:TRIP BLANK_54Lab Sample ID:2402189461Sample Date:2/12/2025				MW-126S_021225 2402189462 2/12/2025						
	Analyte	Cas No.	Result	Report Limit		Valid Qualifier	Result	Report Limit	Units	Valid Qualifier		
GC/MS VOC OSW-826	0D											
	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 # 240-218946-1 CADENA Verification Report: 2025-02-21

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 58363R Review Level: Tier III Project: 30206169.0401.02

### **SUMMARY**

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-218946-1 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
		Watrix	Collection Date		voc	VOC SIM
TRIP BLANK_54	240-218946-1	Water	02/12/2025		Х	
MW-126S_021225	240-218946-2	Water	02/12/2025		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	Perfo Acce	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		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		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	
Notes:					

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Febin J S

SIGNATURE:

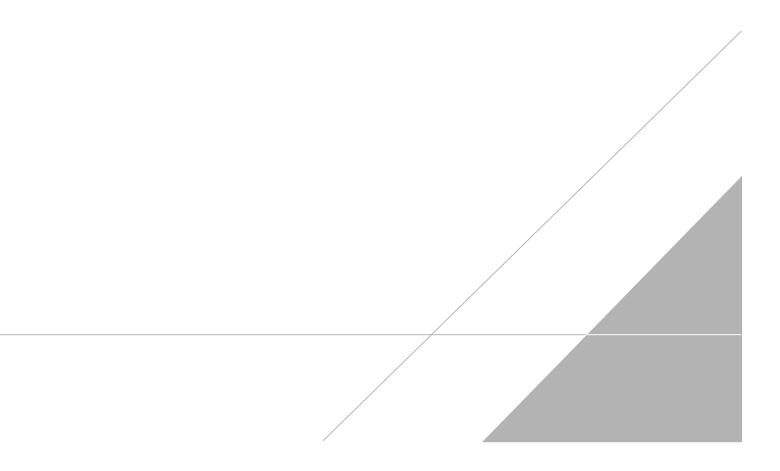
Parts

DATE: March 17, 2025

PEER REVIEW: Andrew Korycinski

DATE: March 19, 2025

# NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



MICHIGAN	Chain of Custody Record
TestAmerica Laboratory location:	Farmington Hills — 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331



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Client Contact Company Name: Arcadis		ory program:		П			NP			RCF		<b>C</b>	1								tAmerica Laboratories, l	
ddress: 28550 Cabot Drive, Suite 500	Client Project	Manager: Mcg	an Meckl	cÿ		Site	e Cor	atact: S	Saman	tha Szp	aichler			Lab Contact: Mike DelMonico						COC No:		
	Telephone: 248	-994-2240				Tel	cpho	nc: 24	8-994-:	2240				Telephone: 330-497-9396				-				
City/State/Zip: Novi, M1, 48377	Email: kristoff	er.hinskey@ar	cadie con				An	Ivers I		and T	anc .		_				Ana	lyse		1 of 1 COCs For lab use only		
Phone: 248-994-2240	Email: Kriston	cr.minskey@ar	cauis.con																			
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Sample Identification	Sample Date	Sample Time	Air Aqueous	Sediment	Solid Other:	12504	HN03	HCI	NaOH ZaAd	NeOH Unpres	Other:	Filtered Sample (Y / N)	Composite-C/ Grab-G 1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE 8260D		1.4-Dioxane 8260D SIM		Sample Specific Notes / Special Instructions:	
TRIP BLANK_ 54			1			T		1				NC	зx	-				x			Trip Blank	
MW-1265_021225	02/12/25	12:00	6	$\square$			$\uparrow$	G				N	5 7	8	X	X	XX		X		VOAs for 8260D	
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Client: Arcadis US Inc. Project/Site: Ford LTP

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.	6
₿ ¢	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)	
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

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

#### Client Sample ID: TRIP BLANK\_54

Date Collected: 02/12/25 00:00 Date Received: 02/14/25 08:00

	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			02/17/25 16:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/17/25 16:51	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 16:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/17/25 16:51	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 16:51	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/17/25 16:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137			-		02/17/25 16:51	1
4-Bromofluorobenzene (Surr)	92		56 - 136					02/17/25 16:51	1
Toluene-d8 (Surr)	103		78 - 122					02/17/25 16:51	1
Dibromofluoromethane (Surr)	95		73 - 120					02/17/25 16:51	1

2/21/2025

Lab Sample ID: 240-218946-1 Matrix: Water

#### Client Sample ID: MW-126S\_021225

Date Collected: 02/12/25 12:00 Date Received: 02/14/25 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			02/19/25 17:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		68 - 127			-		02/19/25 17:02	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			02/17/25 19:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/17/25 19:00	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 19:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/17/25 19:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 19:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/17/25 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			-		02/17/25 19:00	1
4-Bromofluorobenzene (Surr)	97		56 _ 136					02/17/25 19:00	1
Toluene-d8 (Surr)	99		78 - 122					02/17/25 19:00	1
Dibromofluoromethane (Surr)	98		73 - 120					02/17/25 19:00	1

Matrix: Water

Lab Sample ID: 240-218946-2

Job ID: 240-218946-1