

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 12/5/2024 6:59:22 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-215664-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Cleveland

Job Notes

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

Authorization

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

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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	0
DER	Duplicate Error Ratio (normalized absolute difference)	0
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	

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Job ID: 240-215664-1

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Job Narrative 240-215664-1

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 11/26/2024 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 2.4°C.

GC/MS VOA

Method 8260D: An MS/MSD was analyzed with analytical batch 240-637119 but is not reported because the parent sample has no analytes in common.

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

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
240-215664-1	TRIP BLANK_75	Water	11/22/24 00:00	11/26/24 08:00
240-215664-2	MW-167S_112224	Water	11/22/24 09:08	11/26/24 08:00

Detection	Summary
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Client Sample ID: TRIP BLANK_75

No Detections.

Client Sample ID: MW-167S_112224

No Detections.

Lab Sample ID: 240-215664-1

Lab Sample ID: 240-215664-2

This Detection Summary does not include radiochemical test results.

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Client Sample ID: TRIP BLANK_75

Date Collected: 11/22/24 00:00 Date Received: 11/26/24 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			12/01/24 21:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/01/24 21:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/01/24 21:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/01/24 21:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/01/24 21:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/01/24 21:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		62 - 137			-		12/01/24 21:22	1
4-Bromofluorobenzene (Surr)	102		56 - 136					12/01/24 21:22	1
Toluene-d8 (Surr)	99		78 - 122					12/01/24 21:22	1
Dibromofluoromethane (Surr)	99		73 - 120					12/01/24 21:22	1

Job ID: 240-215664-1

Lab Sample ID: 240-215664-1 Matrix: Water

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Client Sample ID: MW-167S_112224

Date Collected: 11/22/24 09:08 Date Received: 11/26/24 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			12/04/24 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		68 - 127			-		12/04/24 05:01	1
Method: SW846 8260D - Volat	ile Organic Comr	ounds by (SC/MS						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			12/01/24 23:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/01/24 23:41	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/01/24 23:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/01/24 23:41	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/01/24 23:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/01/24 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		12/01/24 23:41	1
4-Bromofluorobenzene (Surr)	104		56 - 136					12/01/24 23:41	1
Toluene-d8 (Surr)	100		78 - 122					12/01/24 23:41	1
Dibromofluoromethane (Surr)	100		73 - 120					12/01/24 23:41	1

12/5/2024

Job ID: 240-215664-1

Lab Sample ID: 240-215664-2

40-215664-2 Matrix: Water

BFB

(56-136)

TOL

(78-122)

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

Client Sample ID

Lab Sample ID

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

DBFM

(73-120)

240-215664-1	TRIP BLANK_75	111	102	99	99	
240-215664-2	MW-167S_112224	115	104	100	100	
LCS 240-637119/5	Lab Control Sample	103	106	102	94	
MB 240-637119/9	Method Blank	111	102	99	99	
Surrogate Legend						
DCA = 1,2-Dichloroeth	nane-d4 (Surr)					
BFB = 4-Bromofluorob	penzene (Surr)					
TOL = Toluene-d8 (Su	rr)					
	omethane (Surr)					

DCA

(62-137)

			Percent Surrogate Recovery (Acceptance Limits)	
		DCA		
Lab Sample ID	Client Sample ID	(68-127)		
240-215659-C-3 MS	Matrix Spike	111		13
240-215659-F-3 MSD	Matrix Spike Duplicate	108		
240-215664-2	MW-167S_112224	110		
LCS 240-637453/5	Lab Control Sample	110		
MB 240-637453/7	Method Blank	108		

Surrogate Legend

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

Matrix: Water

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

Surrogate

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Analyte

Analysis Batch: 637119

Lab Sample ID: MB 240-637119/9

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

MB MB

1.0 U

1.0 U

1.0 U

1.0 U

1.0 U

1.0 U

MB MB

111

102

99

99

%Recovery

Qualifier

Result Qualifier

		1					
	Job ID: 240-215664-1						
Client Sa	ample ID: Metho Prep Type: 1						
			5				
repared	Analyzed	Dil Fac					
	12/01/24 20:59	1					
	12/01/24 20:59	1					
	12/01/24 20:59	1					
	12/01/24 20:59	1					
	12/01/24 20:59	1	8				
	12/01/24 20:59	1	U				
			9				
repared	Analyzed	Dil Fac					
	12/01/24 20:59	1	10				
	12/01/24 20:59	1					
	12/01/24 20:59	1					
	12/01/24 20:59	1					

Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: LCS 240-637119/5

Matrix: Water Analysis Batch: 637119

	Spike	LCS LCS			%Rec	
Analyte	Added	Result Qualifier	Unit	D %Rec	Limits	
1,1-Dichloroethene	25.0	22.9	ug/L	92	63 - 134	
cis-1,2-Dichloroethene	25.0	22.4	ug/L	90	77 - 123	
Tetrachloroethene	25.0	20.4	ug/L	82	76 - 123	
trans-1,2-Dichloroethene	25.0	22.4	ug/L	89	75 - 124	
Trichloroethene	25.0	20.7	ug/L	83	70 - 122	
Vinyl chloride	25.0	25.4	ug/L	102	60 - 144	
LC	S LCS					

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			62 - 137
4-Bromofluorobenzene (Surr)	106		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	94		73 - 120

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

Lab Sample ID: MB 240-637453/7 Matrix: Water Analysis Batch: 637453							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			12/03/24 23:56	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 127			-		12/03/24 23:56	1

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RL

1.0

1.0

1.0

1.0

1.0

1.0

Limits

62 - 137

56 - 136

78 - 122

73 - 120

MDL Unit

0.49 ug/L

0.46 ug/L

0.44 ug/L

0.51 ug/L

0.44 ug/L

0.45 ug/L

D

Prepared

Prepared

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Job ID: 240-215664-1

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

Lab Sample ID: LCS 240-63	7453/5						Client	Sample	D: Lab Co	ontrol Sa	ample
Matrix: Water									Prep 1	Type: To	tal/NA
Analysis Batch: 637453											
-			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane			10.0	9.42		ug/L		94	75 - 121		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	110		68 - 127								
Lab Sample ID: 240-215659	-C-3 MS							Client	Sample ID	: Matrix	Spike
Matrix: Water									Prep 1	Type: To	tal/N/
Analysis Batch: 637453											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	2.0	U	10.0	8.46		ug/L		85	20 - 180		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	111		68 - 127								
Lab Sample ID: 240-215659	-F-3 MSD						Client Sa	ample IE): Matrix Sp	oike Dup	olicate
Matrix: Water									Prep 1	Type: To	tal/N/
Analysis Batch: 637453											
	Sample	Sample	Spike	MSD	MSD				%Rec		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
1,4-Dioxane	2.0	U	10.0	7.56		ug/L		76	20 - 180	11	2
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	108		68 - 127								

GC/MS VOA

Analysis Batch: 637119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-215664-1	TRIP BLANK_75	Total/NA	Water	8260D	
240-215664-2	MW-167S_112224	Total/NA	Water	8260D	
MB 240-637119/9	Method Blank	Total/NA	Water	8260D	
LCS 240-637119/5	Lab Control Sample	Total/NA	Water	8260D	
nalysis Batch: 63745		Dress Trans	Maduite	Mathad	Draw Data
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
Lab Sample ID		Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
nalysis Batch: 63745 Lab Sample ID 240-215664-2 MB 240-637453/7	Client Sample ID				Prep Batch
Lab Sample ID 240-215664-2 MB 240-637453/7	Client Sample ID MW-167S_112224	Total/NA	Water	8260D SIM	Prep Batch
Lab Sample ID 240-215664-2	Client Sample ID MW-167S_112224 Method Blank	Total/NA Total/NA	Water Water	8260D SIM 8260D SIM	Prep Batch

Matrix: Water

Matrix: Water

Lab Sample ID: 240-215664-1

Client Sample ID: TRIP BLANK_75 Date Collected: 11/22/24 00:00

Date Received: 11/26/24 08:00	ed: 11/26/24 08:00
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	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analvsis	8260D		1	637119	<u></u>	EET CLE	12/01/24 21:22

Client Sample ID: MW-167S_112224 Date Collected: 11/22/24 09:08

Date Received: 11/26/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	637119	CS	EET CLE	12/01/24 23:41
Total/NA	Analysis	8260D SIM		1	637453	R5XG	EET CLE	12/04/24 05:01

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

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

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	
Kentucky (UST)	State	112225	02-27-25	
Kentucky (WW)	State	KY98016	12-30-24	
Minnesota	NELAP	039-999-348	12-31-24	
New Hampshire	NELAP	225024	09-30-25	
New Jersey	NELAP	OH001	07-03-25	
New York	NELAP	10975	04-02-25	
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	
Virginia	NELAP	460175	09-14-25	
West Virginia DEP	State	210	12-31-24	

MICHIGAN 190

TestAmerica

Chain of Custody Record

TestA	merica Labora	tory location:	Brig	hton	1044	8 Citatio	on Dri	ve, S	uite 2	200 /	/ Brigh	nton, MI	48116	6 / 8	10-22	9-2763	3		_	_	~				16	IC LEADER IN ENVIRONMENTAL TESTING
Client Contact	Regulat	ory program:		ſ	DW	V	Ē	NPD	ES		C F	RCRA	ſ	0	ther					-	_					
Company Name: Arcadis	Client Project I	Manager: Kris	Hinel	ev			Site	Cont	act. I	Chri	istina	Weaver				Lab	Conta	ct: Mi	ke Del	Monic	0	_	_			TestAmerica Laboratories, Inc. ICOC No:
Address: 28550 Cabot Drive, Suite 500																		1							_	
City/State/Zip: Novi, M1, 48377	Telephone: 248	-994-2240									94-224					Telephone: 330-497-9396							1 of 1 COCs			
Phone: 248-994-2240	Email: kristoffer.hinskey@arcadis.com					_	Analysis Turnaround Time					Analyses							_	For lab use only						
	Sampler Name				1.		TAT	l if diff	erent fi																	Walk-in client
Project Name: Ford LTP	F	reperce	a	. COT	shi	gan	1	0 da	у		3 wee 2 wee															Lab sampling
Project Number: 30206169.0401.03	Method of Ship	ment/Carrier:									1 wee 2 days		2	εų			9			a	SIM					
PO # US3410018772	Shipping/Track	cing No:					1			["	l day		V de	/ Graf	G	8260D	CE 826			e 8260	8260D					Job/SDG No:
				M	atrix		-	Con	tainer	rs & I	Preser	vatives	_		826	DCE	2-DC	SOD	8260D	lorid	ane					
Sample Identification	Sample Date	Sample Time	Air	Aqueous Sediment	Solid	Other:	H2S04	HN03	HCI	NaOH	ZnAc/ NaOH	Unpres Other:	Bilterad	Fultered Sample (Y / N) Composite=C / Grah=G	1 1-DCF 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 826	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					Sample Specific Notes / Special Instructions:
TRIP BLANK_75				1		Ι	Γ		1				N	N G	3 X	X	X	X	X	х						1 Trip Blank
TRIP BLANK_75 MW-1675_112224	11/22/04	Daos		ĺ0	T				io				1	NG	5 ¥	۲y		X	Ϋ́	x	,X					3 VOAs for 8260D 3 VOAs for 8260D SIM
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RC 11/22/24																										
Possible Hazard Identification Image: Solution of the second se	Poisc	on B	Jnk	nown			s				I (A f Client	lee may	be asso Disp					ined lo Archiv		han 1 i) onths				
Special Instructions/QC Requirements & Comments: 17 m	Di Starl	;																								
ند کر کرد Submit all results through Cadena at jtomalia@cadenaco.c Level IV Reporting requested.	com. Cadena #E	203728																						1		
Relinquished by:	Company:Ar	eadis		Date/Ti		щ	15	30	0	Rece	eived t	bvi	(0	ild	Şł	517	xqp		Com	oany:	n	adi	5			Date/Time: 11/22/24 1530
Relinquished by	ARC	4DIS		Date/Ti		24 124	14	14	Ò	J	U	Dy		R	er		5		Com	any:	7					M25724 1440
Relinquished by:	Company:			Date/Tr	me	24				Rece	KA	in Labo THAF	IN	E I	MÄF	T J	N		Com	pany:	E	JR.				Date/Time: 11/26/24 800

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Rearved on	Preservative(s) added/Lot number(s): Preservative(s) added/Lot number(s):	Sample(s) Time preserved
New COL Site Name		
PATCCO \	were received with bubble >6 mm in diameter (Notify PM)	Sample(s)
Recensed on ULVE/CA Operand on ULVE/CA Operand on ULVE/CA I* Gold Exp UPS FAS Wyrnon' Client Cooler Box Starnge Location is Gooler # EC Form Box Client Cooler Box Other is Gooler # EC Form Box Client Cooler Box Other color temperature upon receipt IF Cooler Form Starnge Location Starnge Location oler temperfusitedy seals on the outside of the cooler(s) signed & dated? New Starnge/Location New Were tamperfusitedy seals on the tottle (all the cooler(s))? Yes (Maingle Cooler Form Starnge/Location No Were tamperfusitedy seals on the tottle (all the cooler(s)? Yes (Maingle Cooler Form No No Were tamperfusitedy seals on the tottle (all the cooler(s)? Yes (Maingle Cooler Form No No reach sample(s) all the cooler(s)? Yes (Maingle Cooler Form No No No reach sample(s) at the cooler(s)? Yes (Maingle Cooler Form No No No reach sample(s) at the cooler(s)? Yes (Maingle Cooler No No No reach sample(s) at	were received in a broken container	Sample(s)
Recerved on WENCON Site Name Wench Wench None Wench If Gd Exp Fram Box Client Cooler Box Other Storage Location Storage Location six Cooler # EC Fram Box Client Cooler Box Other Storage Location Storage Location six Cooler # EC Fram Box Client Cooler Box Other Storage Location six Cooler # ECOULANT Vere tamper/custody seals on the outside of the cooler(s)? If Yes Quanty Is water None Other GUN # IIII (.F. 4.0		PLE
Received on \L\L\L\L\L\L\L\L\L\L\L\L\L\L\L\L\L\L\L	additional next page	
EVERCE OLS Site Name Operated on III.2.40/2.4. Operated on III.2.40/2.4. 1* Grid Exp UPS FAS Varpoint Client Drop Off Envolution: Couler Other is Cooler # EC Foam Box Client Cooler Box Other Other Storage-location is Cooler # EC Foam Box Client Cooler Box Other Other is Cooler # EC Foam Box Client Cooler Box Other Other is Cooler # EC Foam Box Client Cooler Box Other Other cooler # EC Foam Dox Client Cooler Box Other Other cooler # EC Dry Lee Water None Other Other cooler form Encloated Dry Lee Water None Other Ot	by	Contacted PM
Lett CLC (C) Site Name Per CLC (C) Site Name Received on $11/1/2/2/24$ Opened on $11/2/2/24$ Preserved on $11/2/2/24$ Opened on $11/2/2/24$ $11/2/2/24$ is Cooler # E Foam Box Client Drop Off Burofins Courier Other is Cooler # E E Foam Box Client Cooler Box Other is Cooler # E E Dury Ice Water None Other COOLANT Ware Bute Ice Dry Ice Water None Other cooler temperature upon receipt Imper/Observed Cooler Temp 2-3 °C Corrected Cooler GUN # Imper/Outshody seals on the outside of the cooler(s) signed & dated? Yes No NA Were tamper/custody seals intact and uncompromised? Yes No NA Yes No Were tamper/custody seals intact and uncompromised? Yes No NA Yes No I custody papers relinquished & signed in the appropriate place? No NA Yes No Yes No		
PARCECO \S Site Name Opened on 11/12/0/12/4 Opened on 11/12/0/12/4 Opened on 11/12/0/12/4 I* Gred Exp UPS FAS Waypointy Client Drop Off Eurofins Courier Other is Cooler # EC Foam Box Client Cooler Box Other is Cooler # EC Foam Box Client Cooler Box Other is Cooler # EC Foam Box Client Cooler Box Other is Cooler # EC Dry Ice Water None Other color temperature upon receipt Imper Couler form Corrected Cooler Stee Multiple Cooler Form GUN # Imper/oustody seals on the outside of the cooler(s)? If Yes Quantity Concrected Cooler Were tamper/oustody seals intact and uncompromised? Yes No No Were the person(s) who collected the samples clearly identified on the COC? Yes No via all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No reach sample, does the COC specify preservatives (ON), # of containers (ON), and sample type of No reach sample, does the correct pH upon receipt? Yes No Yes	Trip Blank Lot # NIA (Case No	•
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LATCCLO 1.5 Site Name Court mpercent of the cooler of	(LLHg/MeHg)? Yes (No NA	-Were tam
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HYCGO 15 Site Name	11/7/0/24 Opened on III/2/0/24	Cooler Received
	Site Name Cooler unpacked by	Chent Arcad

WI-NC-099-110524 Cooler Receipt Form.doc



Temperature readings

	Voa Vial 40ml - Hydrochloric Acid	240-215664-G-2	MW-1675_112224
	Voa Vial 40ml - Hydrochloric Acid	240-215664-E-2	MW-167S_112224
	Voa Vial 40ml - Hydrochloric Acid	240-215664-D-2	MW-1675_112224
	Voa Vial 40mi - Hydrochloric Acid	240-215664-C-2	MW-167S_112224
All And	Voa Vial 40ml - Hydrochloric Acıd	240-215664-B-2	MW-167S_112224
	Voa Vial 40ml - Hydrochloric Acid	240-215664-A-2	MW-1678_112224
	Voa Vial 40ml - Hydrochlorıc Acid	240-215664-A-1	TRIP BLANK_75
<u>Container</u> Preservation Preser pH Temp Added Lot Ni	Container Type	Lab ID	<u>Client Sample ID</u>

			E	Con
			Temp	Container
	• • • • • • • • • • • • • • • • • • •		pH Temp Added	Preservation Preservation
			Lot Number	Preservation

DATA VERIFICATION REPORT



December 05, 2024

Megan Meckley Arcadis 28550 Cabot Drive Suite 500 Novi, MI US 48377

CADENA project ID: E203728 Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil Project number: 30206169.0401.04_WA-03 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 215664-1 Sample date: 2024-11-22 Report received by CADENA: 2024-12-05 Initial Data Verification completed by CADENA: 2024-12-05 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: 215664-1

		Sample Name: Lab Sample ID: Sample Date:	240215	11/22/2024			MW-167S_112224 2402156642 11/22/2024				
	Analyte	Cas No.	Result	Report Limit		Valid Qualifier	Result	Report Limit	Units	Valid 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 # 240-215664-1

CADENA Verification Report: 2024-12-05

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 57548R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-215664-1 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:

Somalo ID	Lab ID	Matrix	Sample	Barant Sampla	Analysis				
Sample ID		Matrix	Collection Date	Parent Sample	VOC	VOC SIM			
TRIP BLANK_75	240-215664-1	Water	11/22/2024		Х				
MW-167S_112224	240-215664-2	Water	11/22/2024		Х	Х			

DATA REVIEW

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	
	Narrative summary of Quality Assurance or sample problems provided		х		х	
12.	Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA 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 (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		X	
Tier III Validation		1			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		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:	Bindu Sree M B
SIGNATURE:	BASHMB
DATE:	January 15, 2025

PEER REVIEW: Andrew Korycinski

DATE: January 15, 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	Brighton -	- 10448 Citation Drive	Suite 200 / Brighto	n MI 48116 / 810-229-2763
I estAmerica Laboratory location	prigraon	- IO440 Giladon Drive,	Sulle 2007 Drighte	1, 11 40110 7010-220-2100

Client Contact Company Name: Arcadis	Regular	tory program:	:	٣	DW	Г	NPDE	s	٢	RCR	A	Г [—] О	ther					-	_				т	stAmerica	Laborate	ries In	c
company wanter releases	Client Project	Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike D Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-5						ct: Ch	hristin	a Wea	ver			Lab	Conta	ct: Mi	ke Dell	Monic	0				_	DC No:	Luborate		٦
Address: 28550 Cabot Drive, Suite 500	Telephone: 248							97-939	06					-			-	-									
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Project Number: 30206169.0401.03		Reberca Costigan Method of Shipment/Carrier:			<u>'</u> '	0 day	E.	2 w 1 w 2 da	eek		2 C	·•			1			WIS				La	b sampling		10000		
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Sample Identification	Sample Date	Sample Time	Air	Sediment	Solid Other:	H2S04	HN03	HCI NaOH	ZnAcl	Unpres	Other:	Filtered Sample (Y / 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						Specific No I Instructio		
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Submit all results through Cadena at jtomalia@cadenaco. Level IV Reporting requested.	com. Cadena #l	203728																			1						
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1

Client Sample ID: TRIP BLANK_75

Date Collected: 11/22/24 00:00

Date Received: 11/26/24 08:00

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			12/01/24 21:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/01/24 21:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/01/24 21:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/01/24 21:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/01/24 21:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/01/24 21:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		62 - 137			-		12/01/24 21:22	1
4-Bromofluorobenzene (Surr)	102		56 - 136					12/01/24 21:22	1
Toluene-d8 (Surr)	99		78 - 122					12/01/24 21:22	1

73 - 120

Client Sample ID: MW-167S_112224

Date Collected: 11/22/24 09:08

Dibromofluoromethane (Surr)

Dibromofluoromethane (Surr)

Date Received: 11/26/24 08:00

Method: SW846 8260D SIM - Vola	tile Organic C	ompounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			12/04/24 05:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		68 - 127			_		12/04/24 05:01	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

99

100

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			12/01/24 23:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/01/24 23:41	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/01/24 23:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/01/24 23:41	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/01/24 23:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/01/24 23:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		62 - 137			-		12/01/24 23:41	1
4-Bromofluorobenzene (Surr)	104		56 - 136					12/01/24 23:41	1
Toluene-d8 (Surr)	100		78 - 122					12/01/24 23:41	1

73 - 120

Lab Sample ID: 240-215664-1 Matrix: Water

Job ID: 240-215664-1

Lab Sample ID: 240-215664-2

12/01/24 21:22

12/01/24 23:41

1

Matrix: Water

1