PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 11/29/2024 11:52:39 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-215391-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 11/29/2024 11:52:39 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: Arcadis US Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-215391-1

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Definitions/Glossary

Client: Arcadis US Inc.

Job ID: 240-215391-1

Project/Site: Ford LTP

Qualifiers
GC/MS VOA

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-215391-1 Eurofins Cleveland

Job Narrative 240-215391-1

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 11/21/2024 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 4.2°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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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215391-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215391-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-215391-1	TRIP BLANK_100	Water	11/19/24 00:00	11/21/24 08:00
240-215391-2	MW-169S_111924	Water	11/19/24 09:35	11/21/24 08:00

Detection Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215391-1

Client Sample ID: TRIP BLANK_100 Lab Sample ID: 240-215391-1

No Detections.

No Detections.

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-215391-1

Project/Site: Ford LTP

Date Received: 11/21/24 08:00

Client Sample ID: TRIP BLANK_100

Lab Sample ID: 240-215391-1 Date Collected: 11/19/24 00:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 11/25/24 14:25 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 11/25/24 14:25 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 11/25/24 14:25 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 11/25/24 14:25 Trichloroethene 1.0 U 1.0 0.44 ug/L 11/25/24 14:25 Vinyl chloride 0.45 ug/L 1.0 U 1.0 11/25/24 14:25 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 102 62 - 137 11/25/24 14:25 4-Bromofluorobenzene (Surr) 88 11/25/24 14:25 56 - 136 78 - 122 11/25/24 14:25 Toluene-d8 (Surr) 100 Dibromofluoromethane (Surr) 102 73 - 120 11/25/24 14:25

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-215391-1

Project/Site: Ford LTP

Date Received: 11/21/24 08:00

Client Sample ID: MW-169S_111924

Lab Sample ID: 240-215391-2 Date Collected: 11/19/24 09:35

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/26/24 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		11/26/24 17:44	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	iC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/25/24 17:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/25/24 17:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 17:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/25/24 17:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 17:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/25/24 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137			_		11/25/24 17:54	1
4-Bromofluorobenzene (Surr)	84		56 ₋ 136					11/25/24 17:54	1
Toluene-d8 (Surr)	94		78 - 122					11/25/24 17:54	1
Dibromofluoromethane (Surr)	101		73 - 120					11/25/24 17:54	1

Surrogate Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215391-1

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-215332-B-1 MS	Matrix Spike	95	100	104	94
240-215332-B-1 MSD	Matrix Spike Duplicate	91	96	100	92
240-215391-1	TRIP BLANK_100	102	88	100	102
240-215391-2	MW-169S_111924	100	84	94	101
LCS 240-636548/5	Lab Control Sample	94	100	104	95
MB 240-636548/9	Method Blank	93	84	92	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 Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-215294-C-4 MS	Matrix Spike	111	
240-215294-C-4 MSD	Matrix Spike Duplicate	100	
240-215391-2	MW-169S_111924	106	
LCS 240-636809/5	Lab Control Sample	109	
MB 240-636809/7	Method Blank	107	
Surrogate Legend			

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

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Client: Arcadis US Inc. Job ID: 240-215391-1

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

Lab Sample ID: MB 240-636548/9

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 636548

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

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/25/24 11:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/25/24 11:19	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 11:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/25/24 11:19	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 11:19	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/25/24 11:19	1

MB MB

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93	62 - 137		11/25/24 11:19	1
4-Bromofluorobenzene (Surr)	84	56 - 136		11/25/24 11:19	1
Toluene-d8 (Surr)	92	78 - 122		11/25/24 11:19	1
Dibromofluoromethane (Surr)	95	73 - 120		11/25/24 11:19	1

Lab Sample ID: LCS 240-636548/5

Matrix: Water

Analysis Batch: 636548

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike	LCS	LCS			%Rec	
Added	Result	Qualifier I	Jnit I	D %Rec	Limits	
1000	947		ıg/L	95	63 - 134	
1000	947	ι	ug/L	95	77 - 123	
1000	1040	ι	ıg/L	104	76 - 123	
1000	923	ı	ıg/L	92	75 - 124	
1000	962	ι	ıg/L	96	70 - 122	
1000	849	ι	ıg/L	85	60 - 144	
	Added 1000 1000 1000 1000 1000	Added Result 1000 947 1000 947 1000 1040 1000 923 1000 962	Added Result Qualifier I 1000 947 0 1000 947 0 1000 1040 0 1000 923 0 1000 962 0	Added Result Qualifier Unit 1000 947 ug/L 1000 947 ug/L 1000 1040 ug/L 1000 923 ug/L 1000 962 ug/L	Added Result Qualifier Unit D %Rec 1000 947 ug/L 95 1000 947 ug/L 95 1000 1040 ug/L 104 1000 923 ug/L 92 1000 962 ug/L 96	Added Result Qualifier Unit D %Rec Limits 1000 947 ug/L 95 63 - 134 1000 947 ug/L 95 77 - 123 1000 1040 ug/L 104 76 - 123 1000 923 ug/L 92 75 - 124 1000 962 ug/L 96 70 - 122

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 _ 137
4-Bromofluorobenzene (Surr)	100		56 ₋ 136
Toluene-d8 (Surr)	104		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

Matrix: Water

Analysis Batch: 636548

Lab Sample ID: 240-215332-B-1 MS Client Sample ID: Matrix Spike **Prep Type: Total/NA**

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	500	U	10000	8890		ug/L		89	56 - 135	
cis-1,2-Dichloroethene	500	U	10000	9190		ug/L		92	66 - 128	
Tetrachloroethene	500	U	10000	10000		ug/L		100	62 - 131	
trans-1,2-Dichloroethene	500	U	10000	8960		ug/L		90	56 - 136	
Trichloroethene	13000		10000	22300		ug/L		91	61 - 124	
Vinyl chloride	500	U	10000	7620		ug/L		76	43 - 157	

Surrogate	%Recovery Qua	lifier Limits
1,2-Dichloroethane-d4 (Surr)	95	62 - 137
4-Bromofluorobenzene (Surr)	100	56 - 136
Toluene-d8 (Surr)	104	78 - 122

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

Job ID: 240-215391-1

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

Lab Sample ID: 240-215332-B-1 MS

Matrix: Water

Analysis Batch: 636548

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

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 94 73 - 120

Lab Sample ID: 240-215332-B-1 MSD

Matrix: Water

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analysis Batch: 636548

MSD MSD %Rec RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 1,1-Dichloroethene 500 U 10000 9340 ug/L 93 56 - 135 5 26 cis-1,2-Dichloroethene 500 U 10000 9540 95 66 - 128 ug/L 14 4 Tetrachloroethene 500 U 10000 10300 ug/L 103 62 - 131 20 ug/L 15 trans-1.2-Dichloroethene 500 U 10000 9350 94 56 - 136 Trichloroethene 13000 10000 22600 ug/L 94 61 - 124 15 Vinyl chloride 500 U 10000 8730 ug/L 43 - 157 24 13

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
4-Bromofluorobenzene (Surr)	96		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

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

Lab Sample ID: MB 240-636809/7

Matrix: Water

Analysis Batch: 636809

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 11/26/24 12:39 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 107 68 - 127 11/26/24 12:39

Lab Sample ID: LCS 240-636809/5

Analysis Batch: 636809

Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 7.72 ug/L 75 - 121

LCS LCS

%Recovery Qualifier Surrogate Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 109

Lab Sample ID: 240-215294-C-4 MS

Matrix: Water

Analysis Batch: 636809

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 7.97 ug/L 80 20 - 180

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QC Sample Results

Client: Arcadis US Inc. Job ID: 240-215391-1

Project/Site: Ford LTP

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		68 - 127

Lab Sample ID: 240-215294-C-4 MS

Matrix: Water

Analysis Batch: 636809

Client Sample ID: Matrix Spike Duplicate	
Prep Type: Total/NA	

RPD Sample Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier Limits RPD Limit Unit %Rec 81 1,4-Dioxane 2.0 U 10.0 8.15 20 - 180 2 20 ug/L

MSD MSD

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 100 68 - 127

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215391-1

GC/MS VOA

Analysis Batch: 636548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-215391-1	TRIP BLANK_100	Total/NA	Water	8260D	
240-215391-2	MW-169S_111924	Total/NA	Water	8260D	
MB 240-636548/9	Method Blank	Total/NA	Water	8260D	
LCS 240-636548/5	Lab Control Sample	Total/NA	Water	8260D	
240-215332-B-1 MS	Matrix Spike	Total/NA	Water	8260D	
240-215332-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 636809

Lab Sample ID 240-215391-2	Client Sample ID MW-169S_111924	Prep Type Total/NA	Matrix Water	Method Prep Bar 8260D SIM	tch
MB 240-636809/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-636809/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-215294-C-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-215294-C-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-215391-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_100

Lab Sample ID: 240-215391-1 Date Collected: 11/19/24 00:00

Matrix: Water

Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 636548 AJS EET CLE 11/25/24 14:25 Analysis

Client Sample ID: MW-169S_111924 Lab Sample ID: 240-215391-2

Date Collected: 11/19/24 09:35 **Matrix: Water**

Date Received: 11/21/24 08:00

Date Received: 11/21/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	636548	AJS	EET CLE	11/25/24 17:54
Total/NA	Analysis	8260D SIM		1	636809	R5XG	EET CLE	11/26/24 17:44

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215391-1

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Ilinois	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
/irginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-24

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Chain of Custody Record

MICHGATESTAMERICO
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THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

Client Contact	Regulat	ory program:		Г	DW		□ N	PDES		□ R	CRA	Г	Oth	er									1			
Company Name: Arcadis	Client Project N	Anager: Kris	Hinskey	,		s	ite Co	ontact	: Chri	stina \	Veaver				Lab (ontac	et: Mi	ke De	Mon	co			TestA COC	merica Labora No:	tories, In	٦
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	994-2240				1	alenh	0001	18 00	4-2240					Talan	hone	330-	197 97	06				_			4
City/State/Zip: Novi, MI, 48377	1 elephone: 248	-994-2240				ľ	elepn	ione: 2	48-77	4-2240					1 eleb	none:	330-							1 of 1	COCs	1
	Email: kristoff	er.hinskey@ar	cadis.co	m			A	alysis	Turn	around	Time		Analyses					Analyses					For lab	For lab use only		
Phone: 248-994-2240	Sampler Name					_ T	'AT if	different	from be	elow													Walk-	n client		1
Project Name: Ford LTP	4.4	Yan	Ho	3.42	ai	11	10	dav		3 week													Lab sa	mpling		1
Project Number: 30206169.0401.03	Method of Ship	nent/Carrier;	7 10	,0,				,		1 week 2 days		E	Ÿ			۵				SIM						
PO # US3410018772	Shipping/Track	ing No:								1 days		mple (Y / N)	/Grab	١	8260D	E 8260D			8260	3260D			Job/SI	G No:		
			-	Ma	trix			ontain	ers & l	reserv	atives	Sam	آيًا .	8260D	CE 8	-DC	9	9	oride	e e			100		200	4
Sample Identification	Sample Date	Sample Time	Air	Sediment	Solid	Otheri	H2S04	HC H	NaOH	ZaAc/ NaOH	Other:	Filtered	Composite-C/Grab-	1.1-DCE	cis-1,2-DCE	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				Sample Specific Special Instruc		
TRIP BLANK_ 100			1			T		1				N	I G	Х	Х	Х	Х	Х	Х				1	Гrip Blank		٦,
MW-1695_11924	11/19/24	0935	1	5	П			6				10	G	X	X	χ	X	1	X	X		П		/OAs for 8260 /OAs for 8260		1
1000 10002111121	17,7,7				H			+			+	+	19	1				7				T	-	OAS 101 820	OD SIN	1
				+	-		+	+	\vdash	+	+	+	╁	-				-	+		_					1
			\vdash	-	++		+	+	\vdash		-	+	+	<u> </u>	_			-	-			+				+
				_	\sqcup					_	+			_			4	1		1	_	\perp				4
																				λ_{3}						1
																				نط						1
			П									\top						24	0-21	5391	coc -					7
								T				\top					П		Γ							1
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Possible Hazard Identification						-	San								les are				than I	month)						4
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VUA Sample Preservation - Date Lime VUAs rrozen
Sample(s) were further preserved in the laboratory
20. SAMPLE PRESERVATION
Sample(s)were received with bubble >6 mm in diameter (Notify PM)
Sample(s) were received after the received in a broken container
PLE CONDITION
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Concerning
Contacted PM Date by via Verbal Voice Mail Other
Was a LL Hg or Me Hg trip blank present?
15 Were air bubbles >6 mm in any VOA vials? Larger than this. 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes No
Were VOAs on the COC?
If yes, Questions 13-17 have been checked at the originating laboratory
10 Were correct bottle(s) used for the test(s) indicated? 11 Sufficient quantity received to perform indicated analyses?
s (YM), # of containers (YM), ar
Did all bottles arrive in good condition (Unbroken)?
5 Were the custody papers relinquished & signed in the appropriate place? 6 Was/were the person(s) who collected the samples clearly identified on the COC? YES No
Did custody papers accompany the sample(s)?
-Were tamper/custody seals intact and uncompromised? 3 Shippers' packing slip attached to the cooler(s)? Yes (No) Your NA VOAs
(LLHg/MeHg)? Yes (No
y Yes No NA
IR GUN# (CF + D - 24C) Observed Cooler
COOLANT (Wet Ige) Blue Ice Dry Ice Water None
rial used. Bubble Wrap Foam Plastic Bag None
Receipt After-hours Drop-off Date/Jime Storage Location Eurofins Cooler # C Foam Box Chent Cooler Box Other
Client Drop Off E
Received on 11-21-24 Opened on 11-21-2U
Client ARPadus Site Name Cooler unpacked by:
Enrons — Clevebad Sample Recolpt Formi Narrative Login # :

Page 19 of 19

DATA VERIFICATION REPORT



November 29, 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: 215391-1 Sample date: 2024-11-19

Report received by CADENA: 2024-11-29

Initial Data Verification completed by CADENA: 2024-11-29

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 http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 215391-1

		Sample Name: Lab Sample ID: Sample Date:		3911	0		240215	MW-169S_111924 2402153912 11/19/2024			
				Report		Valid	Re			Valid	
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	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		
OSW-8260	<u>ODSIM</u>										
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-215391-1

CADENA Verification Report: 2024-11-29

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 56918R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-215391-1 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	Ana	lysis	
Sample ID	Labib	Wallix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_100	240-215391-1	Water	11/19/2024		X	
MW-169S_111924	240-215391-2	Water	11/19/2024		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted	Perfo	Not Required	
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation				'	
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	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		X		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: Bindu Sree M B

SIGNATURE: BAShims

DATE: December 16, 2024

PEER REVIEW: Andrew Korycinski

DATE: December 19, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

MICHIGATESTAmerico

TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

Client Contact	Regulat	ory program:		-	DW		NPDE	S	-	RCI	AS		Other										1					
Company Name: Arcadis		.,												1										Tes	tAmeric	a Labora	tories, l	nc.
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Address: 28550 Cabot Drive, Suite 500	Telephone: 248	994-2240			-	Tele	Telephone: 248-994-2240 Tele				Telephone: 330-497-9396					+				\dashv								
City/State/Zip: Novi, MI, 48377	Email: kristoff		cadis co	m			Analy				ime								nal	vses				1 of 1 COCs For lab use only Walk-in client		COCs	7	
Phone: 248-994-2240	E III A II A I STON		cauis.co.									1							T		T							
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		Maryam Manani				1	10 day 🗸 2 weeks								Lab	sampling												
Project Number: 30206169.0401.03	Method of Ship	nent/Carrier:							1 w			2	Y			ا ۾				SIM								
PO # US3410018772	Shipping/Track	Shipping/Tracking No:							1 d			Sample (Y / N)	C/Grab		8260D CE 8260D		3260	09			1	Job	SDG No					
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Sample Identification	Sample Date	Sample Time	Air	Sediment	Solid	112504	HNO3	NaOH	ZaAd	Unpres	Other:	Filtered Sa	Composite	1.1-DCE 8260D	cis-1,2-DCE	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D						e Specific ! al Instruct		
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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-215391-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description** U Indicates the analyte was analyzed for but not detected.

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
\$	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent

Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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 Sample Results

Client: Arcadis US Inc. Job ID: 240-215391-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_100

Lab Sample ID: 240-215391-1 Date Collected: 11/19/24 00:00 **Matrix: Water**

Date Received: 11/21/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/25/24 14:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/25/24 14:25	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 14:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/25/24 14:25	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 14:25	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/25/24 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			_		11/25/24 14:25	1
4-Bromofluorobenzene (Surr)	88		56 ₋ 136					11/25/24 14:25	1
Toluene-d8 (Surr)	100		78 - 122					11/25/24 14:25	1
Dibromofluoromethane (Surr)	102		73 - 120					11/25/24 14:25	1

Client Sample ID: MW-169S_111924

Date Collected: 11/19/24 09:35

Date Received: 11/21/24 08:00

Method: SW846 8260D S	SIM - Volatile 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			11/26/24 17:44	1
Summa made	0/5	0	Limite				Dunnand	A	D# 5

Surrogate	%Recovery Qua	alifier Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106	68 - 127			-	•	11/26/24 17:44	1
Method: SW846 8260D - Volatil	e Organic Compoun	ids by GC/MS						
Analyte	Result Qua	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene		1.0	0.49	ug/L			11/25/24 17:54	1

Analyte	Result	Qualifier	KL	MDL	Unit	U	Prepared	Analyzed	DII Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/25/24 17:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/25/24 17:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 17:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/25/24 17:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 17:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/25/24 17:54	1

Surrogate	%Recovery	Qualifier	Limits	Prep	ared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137		_	11/25/24 17:54	1
4-Bromofluorobenzene (Surr)	84		56 - 136			11/25/24 17:54	1
Toluene-d8 (Surr)	94		78 - 122			11/25/24 17:54	1
Dibromofluoromethane (Surr)	101		73 - 120			11/25/24 17:54	1

Lab Sample ID: 240-215391-2

Matrix: Water