PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 3/11/2024 5:56:01 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-200291-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

See page two for job notes and contact information.

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

Generated 3/11/2024 5:56:01 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-200291-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-200291-1

Project/Site: Ford LTP - Off Site

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
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 U.S., Inc. Project: Ford LTP - Off Site

Job ID: 240-200291-1 Eurofins Cleveland

Job Narrative 240-200291-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 3/1/2024 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 2.7°C.

GC/MS VOA

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

Eurofins Cleveland

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Job ID: 240-200291-1

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Method Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200291-1

Project/Site: Ford LTP - Off Site

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 U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-200291-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-200291-1	TRIP BLANK_104	Water	02/28/24 00:00	03/01/24 08:00
240-200291-2	MW-109S_022824	Water	02/28/24 12:46	03/01/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200291-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_104 Lab Sample ID: 240-200291-1

No Detections.

Client Sample ID: MW-109S_022824 Lab Sample ID: 240-200291-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200291-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_104

Lab Sample ID: 240-200291-1 Date Collected: 02/28/24 00:00

Matrix: Water

Date Received: 03/01/24 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			03/07/24 20:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/07/24 20:16	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/07/24 20:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/07/24 20:16	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/07/24 20:16	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/07/24 20:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137					03/07/24 20:16	1
4-Bromofluorobenzene (Surr)	85		56 ₋ 136					03/07/24 20:16	1
Toluene-d8 (Surr)	100		78 - 122					03/07/24 20:16	1
Dibromofluoromethane (Surr)	98		73 - 120					03/07/24 20:16	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200291-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-109S_022824

Date Collected: 02/28/24 12:46 Date Received: 03/01/24 08:00

Surrogate

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Lab Sample ID: 240-200291-2

Prepared

Matrix: Water

Method: SW846 8260D SIM - V	/olatile Organic C	ompounds	(
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/07/24 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		68 - 127			-		03/07/24 12:53	1
Method: SW846 8260D - Volati	•	•		MDI	11		D	Amahasad	D!! F
-									
Method: SW846 8260D - Volati Analyte 1.1-Dichloroethene	•	Qualifier	RL 1.0		Unit ua/L	<u>D</u> .	Prepared	Analyzed 03/08/24 01:16	Dil Fac
Analyte	Result	Qualifier U	RL	0.49	Unit ug/L ug/L	<u>D</u> .	Prepared	·	Dil Fac 1
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U	RL	0.49 0.46	ug/L	<u>D</u> -	Prepared	03/08/24 01:16	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0 1.0	Qualifier U U U	1.0 1.0	0.49 0.46 0.44	ug/L ug/L	<u>D</u> .	Prepared	03/08/24 01:16 03/08/24 01:16	Dil Fac 1 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	Result 1.0 1.0 1.0	Qualifier U U U U	1.0 1.0 1.0 1.0	0.49 0.46 0.44 0.51	ug/L ug/L ug/L	<u>D</u> .	Prepared	03/08/24 01:16 03/08/24 01:16 03/08/24 01:16	Dil Fac 1 1 1 1 1 1 1

Limits

62 - 137

56 - 136

78 - 122

73 - 120

%Recovery Qualifier

106

84

102

100

Dil Fac

Analyzed

03/08/24 01:16

03/08/24 01:16

03/08/24 01:16

03/08/24 01:16

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-200291-1

Project/Site: Ford LTP - Off Site

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)
240-200286-D-5 MS	Matrix Spike	98	105	105	97
240-200286-D-5 MSD	Matrix Spike Duplicate	97	103	103	95
240-200291-1	TRIP BLANK_104	103	85	100	98
240-200291-2	MW-109S_022824	106	84	102	100
LCS 240-605359/4	Lab Control Sample	97	101	105	96
MB 240-605359/6	Method Blank	104	86	102	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)	
240-200291-2	MW-109S_022824	113	
500-246857-B-2 MS	Matrix Spike	108	
500-246857-B-2 MSD	Matrix Spike Duplicate	115	
LCS 240-605248/5	Lab Control Sample	106	
MB 240-605248/7	Method Blank	105	
Surrogate Legend			

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

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Job ID: 240-200291-1

Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-605359/6

Matrix: Water

Analysis Batch: 605359

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			03/07/24 18:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/07/24 18:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/07/24 18:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/07/24 18:10	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/07/24 18:10	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/07/24 18:10	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 104 62 - 137 03/07/24 18:10 4-Bromofluorobenzene (Surr) 86 56 - 136 03/07/24 18:10 Toluene-d8 (Surr) 102 78 - 122 03/07/24 18:10 Dibromofluoromethane (Surr) 95 73 - 120 03/07/24 18:10

Lab Sample ID: LCS 240-605359/4

Matrix: Water

Analysis Batch: 605359

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	25.0	23.7		ug/L		95	63 - 134
cis-1,2-Dichloroethene	25.0	25.6		ug/L		103	77 - 123
Tetrachloroethene	25.0	24.3		ug/L		97	76 - 123
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	75 - 124
Trichloroethene	25.0	23.7		ug/L		95	70 - 122
Vinyl chloride	12.5	9.51		ug/L		76	60 - 144

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	101		56 ₋ 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Matrix: Water

Analysis Batch: 605359

Lab Sample ID: 240-200286-D-5 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	200	U	5000	5170		ug/L		103	56 - 135	
cis-1,2-Dichloroethene	5800		5000	10300		ug/L		90	66 - 128	
Tetrachloroethene	200	U	5000	4740		ug/L		95	62 - 131	
trans-1,2-Dichloroethene	180	J	5000	5140		ug/L		99	56 - 136	
Trichloroethene	350		5000	4950		ug/L		92	61 - 124	
Vinyl chloride	2300		2500	3470		ug/L		45	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	105		56 - 136
Toluene-d8 (Surr)	105		78 - 122

Eurofins Cleveland

Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-200291-1

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

Lab Sample ID: 240-200286-D-5 MS

Matrix: Water

Analysis Batch: 605359

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 97 73 - 120

Lab Sample ID: 240-200286-D-5 MSD

Matrix: Water

Analysis Batch: 605359

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

%Rec RPD D %Rec Limits RPD Limit 26

MSD MSD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit 1,1-Dichloroethene 200 5000 4890 ug/L 98 56 - 135 6 cis-1,2-Dichloroethene 5800 5000 10600 95 66 - 128 ug/L 3 14 Tetrachloroethene 200 U 5000 4910 ug/L 98 62 - 131 20 trans-1.2-Dichloroethene 5000 ug/L 15 180 5310 102 56 - 136 3 Trichloroethene 350 5000 5080 ug/L 95 61 - 124 3 15 Vinyl chloride 2300 2500 4250 ug/L 43 - 157 20 24

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	103		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

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

Lab Sample ID: MB 240-605248/7

Matrix: Water

Analysis Batch: 605248

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

75 - 121

83

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 03/07/24 10:06 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 105 68 - 127 03/07/24 10:06

Lab Sample ID: LCS 240-605248/5

Matrix: Water

1,4-Dioxane

Prep Type: Total/NA Analysis Batch: 605248 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits

8.35

10.0

LCS LCS

%Recovery Qualifier Surrogate Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 106

Lab Sample ID: 500-246857-B-2 MS

Matrix: Water

Analysis Batch: 605248

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

ug/L

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 8.26 ug/L 83 20 - 180

Eurofins Cleveland

QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200291-1 Project/Site: Ford LTP - Off Site

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		68 - 127

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Lab Sample	ID: 500	-246857	-B-2	MSD

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analysis Batch: 605248

Matrix: Water

	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	8.06		ug/L		81	20 - 180	2	20

MSD MSD

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 115 68 - 127

QC Association Summary

Client: Arcadis U.S., Inc. Job ID: 240-200291-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 605248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200291-2	MW-109S_022824	Total/NA	Water	8260D SIM	
MB 240-605248/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-605248/5	Lab Control Sample	Total/NA	Water	8260D SIM	
500-246857-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
500-246857-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 605359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200291-1	TRIP BLANK_104	Total/NA	Water	8260D	
240-200291-2	MW-109S_022824	Total/NA	Water	8260D	
MB 240-605359/6	Method Blank	Total/NA	Water	8260D	
LCS 240-605359/4	Lab Control Sample	Total/NA	Water	8260D	
240-200286-D-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-200286-D-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-200291-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_104

Lab Sample ID: 240-200291-1 Date Collected: 02/28/24 00:00

Matrix: Water

Date Received: 03/01/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	605359	CDG	EET CLE	03/07/24 20:16

Client Sample ID: MW-109S_022824 Lab Sample ID: 240-200291-2

Date Collected: 02/28/24 12:46 Matrix: Water

Date Received: 03/01/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	605359	CDG	EET CLE	03/08/24 01:16
Total/NA	Analysis	8260D SIM		1	605248	MDH	EET CLE	03/07/24 12:53

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc. Job ID: 240-200291-1 Project/Site: Ford LTP - Off Site

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	02-27-24 *		
Illinois	NELAP	200004	07-31-24		
Iowa	State	421	06-01-25		
Kentucky (WW)	State	KY98016	12-30-24		
Minnesota	NELAP	039-999-348	12-31-24		
New Jersey	NELAP	OH001	06-30-24		
New York	NELAP	10975	04-01-24		
Oregon	NELAP	4062	02-27-25		
Pennsylvania	NELAP	68-00340	08-31-24		
Texas	NELAP	T104704517-22-19	08-31-24		
USDA	US Federal Programs	P330-18-00281	01-05-27		
Virginia	NELAP	460175	09-14-24		
West Virginia DEP	State	210	12-31-24		

 $^{{}^{\}star}\operatorname{Accreditation/Certification\ renewal\ pending\ -\ accreditation/certification\ considered\ valid}.$

Chain of Custody Record

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

Client Contact	Regulat	ory program:	:	DW		- N	PDES		RCF	iA.	i Ot	her											
Company Name: Arcadis	Client Project N	lanager: Kris	H Inskey		15	Site Co	ontact:	Chris	tina We	av er	_	_	Lab	Conta	ct: MII	ke D elf	1 onle	0	TestAmerica Labora			boratories	, In
ddress: 28550 Cabot Drive, Sulte 500															222								
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240				Telephone: 248-994-2240						Tele	Telephone: 330-497-9396							1 of 1 COCs			
Phone: 248-994-2240	Em all: kristoffer.hinskey@arcadis.com				Analysis Turnaround Time					-	Analyses							For lab use only					
HUHE. 240-774-2240	Sampler Name:				1	TATir	dillerent													Walk-in	chent		
Project Name: Ford LTP Off-Site	ĵ.	D/DM	(15)	Frank	2	10	day		weeks											Lab san	nnling		
Project Number: 30167538.402.04	Method of Ships	nent/Carrier:		900	$\overline{}$,		week		ء اء	,						WIS SIE				1	
PO # 30167538.402.04	Shipping/Track	Ing No:							days				8	82 60D			82 60D	8		Job/SD	G Na		
		-	_	nd od od			and allow		·		힘	8260D	8260D				88	826				117	
				M atrix			ontaine	rs & r	reservati	-	San	82	DG.	,2-D	G09	89	Joric	aue					
			Ait Aquests	Sediment	Other:	H2504	3 .	HO 3	Neon Unpres	Other:	Filtered Sample (Y/N)	1,1-DCE	as-1,2-DCE	Trans-1,2-DCE	PCE 8260D	rce 82600	Vinyl Chloride	,4-Dioxane 8260D				effic Notes / tructions:	1
Sample I dentification	Sample Date	Sample Time	Aq.	% S	ð	£ S	HCI	Z Z	2 5	ਰ	Z 8	-	s,	<u> </u>	a.	일	₹	4,		_	·		_
TRIP BLANK_ 104			1				1			1	NG	3 X	\times	X	X	X	X			11	rip Bla	nk	
MW-1095-022824	2/28/24	1246	6				6			!	NO	ر ۲	X	X	X	Х	X	X			OAs for OAs for	3260D 3260D SII	M_
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VOA Sample Preservation - Date/Time VOAs Frozen:
Sample(s)were further preserved in the laboratory. Time preserved:Preservative(s) added/Lot number(s):were further preserved in the laboratory.
20. SAMPLE PRESERVATION
Sample(s)
19. SAMPLE CONDITION were received after the recommended holding time had expired.
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES \(\text{\tin}\text{\texi}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{
Concerning
Contacted PM by via Verbal Voice Mail Other
If yes, Questions 13-17 have been checked at the originating laboratory. 13. Were all preserved sample(s) at the correct pH upon receipt? 14. Were VOAs on the COC? Yes No (NA) pH Strip Lo# HC316719 Yes No (NA) pH Strip Lo# HC316719
11. Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? Yes No Yes No
Could all bottle labels (ID/Date/Time) be reconciled with the COC? For each sample, does the COC specify preservatives (YM) # of containers (YM), and san Were correct bottle(s) used for the test(s) indicated?
Contraction of the contraction o
r bottle kits (LLHg/MeHg)? promised? Yes No NA Yes No NA
cooler(s)? If Yes Quantity
upon receipt (CF //-0,0°C) Observed
rial used: Bubblo Wrap Foam Plastic Ba NT: Wet Ige Blue Ice Dry Ice Wat
Receipt After-hours: Drop-off Date/Time Storage Location Eurofins Cooler # C Foam Box Client Cooler Box Other
Cooler Received on 03 101 A4 Opened on 03 16 24 J.MOROSKO PredEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other
Site Name Cool
Eurofins – Cleveland Sample Receipt Form/Narrative Barberton Facility Barberton Facility

DATA VERIFICATION REPORT



March 11, 2024

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631

Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater

Project number: 30167538.402.04

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 200291-1 Sample date: 2024-02-28

Report received by CADENA: 2024-03-11

Initial Data Verification completed by CADENA: 2024-03-11

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 Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

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: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 200291-1

		Sample Name:	TRIP BLA	NK_104			MW-109	S_02282	4	
		Lab Sample ID:	2402002	911			2402002	912		
		Sample Date:	2/28/202	24			2/28/202	24		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>D</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	
OSW-8260	<u>DSIM</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 # 240-200291-1

CADENA Verification Report: 2024-03-11

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53238R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200291-1 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	
Sample ID	Labib	IVIALITA	Collection Date	Parent Sample	VOC	VOC SIM	
TRIP BLANK_104	240-200291-1	Water	02/28/2024		Х		
MW-109S_022824	240-200291-2	Water	02/28/2024		Х	X	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance otable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
Requested analyses and sample results		Х		Х	
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	
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 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		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: Dilip Kumar

SIGNATURE:

DATE: March 23, 2024

PEER REVIEW: Andrew Korycinski

DATE: April 2, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

27/2

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	:		DW	v		NPDE	s		RC	RA	-	Othe	er						_						
Company Name: Arcadis	Client Project	Manager: Kris	Hinsi	kev			Site	Contac	rt: C	bristio	a W	eav er				Lab C	ontag	t: MIk	e D el	M onic	<u> </u>				COC	merica Laborator Nα	ies, In
Address: 28550 Cabot Drive, Suite 500																Telephone: 330-497-9396					_						
City/State/Zip: Nov1, M1, 48377	Telephone: 248	-994-2240						ph one:														1 of 1 CO	Cs_				
	Em all: kristoff	er.hinskey@ar	cadis	moo.				Analys	is Tu	rnaro	und 1	Nme	1						A	nalys	es				For lab	use only	
Phone: 248-994-2240	Sampler Name						TAT	if differe	ent From	m below			+												Walk-i	n chent	
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200291-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_104

Lab Sample ID: 240-200291-1 Date Collected: 02/28/24 00:00 **Matrix: Water**

Date Received: 03/01/24 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			03/07/24 20:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/07/24 20:16	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/07/24 20:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/07/24 20:16	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/07/24 20:16	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/07/24 20:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137			-		03/07/24 20:16	1
4-Bromofluorobenzene (Surr)	85		56 - 136					03/07/24 20:16	1
Toluene-d8 (Surr)	100		78 - 122					03/07/24 20:16	1
Dibromofluoromethane (Surr)	98		73 - 120					03/07/24 20:16	1

Client Sample ID: MW-109S_022824

Date Collected: 02/28/24 12:46

Date Received: 03/01/24 08:0	0								
Method: SW846 8260D SIM	- Volatile Orga	ınic Compou	unds (GC/M	S)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/07/24 12:53	1

Prepared Surrogate %Recovery Qualifier Limits Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 68 - 127 03/07/24 12:53 113

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/08/24 01:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/24 01:16	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 01:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/24 01:16	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 01:16	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/24 01:16	1

Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106	62 - 137		03/08/24 01:16	1
4-Bromofluorobenzene (Surr)	84	56 - 136		03/08/24 01:16	1
Toluene-d8 (Surr)	102	78 - 122		03/08/24 01:16	1
Dibromofluoromethane (Surr)	100	73 - 120		03/08/24 01:16	1

Lab Sample ID: 240-200291-2

Matrix: Water