ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-176715-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Canton

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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Authorization

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Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-176715-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-176715-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

E Result exceeded calibration range.

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.

Example 2 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.

Job ID: 240-176715-1

Project/Site: Ford LTP - Off Site

Job ID: 240-176715-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-176715-1

Receipt

The samples were received on 11/18/2022 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 1.8°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 U.S., Inc. Project/Site: Ford LTP - Off Site

Job ID: 240-176715-1

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

Protocol References:

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

Laboratory References:

EET CAN = Eurofins Canton, 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: 240-176715-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-176715-1	TRIP BLANK_218	Water	11/16/22 00:00	11/18/22 08:00
240-176715-2	MW-171S_111622	Water	11/16/22 11:22	11/18/22 08:00

Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-176715-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_218 Lab Sample ID: 240-176715-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-176715-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_218

Date Collected: 11/16/22 00:00 Date Received: 11/18/22 08:00 Lab Sample ID: 240-176715-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/28/22 20:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/28/22 20:45	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/28/22 20:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/28/22 20:45	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/28/22 20:45	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/28/22 20:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137					11/28/22 20:45	1
4-Bromofluorobenzene (Surr)	87		56 - 136					11/28/22 20:45	1
Toluene-d8 (Surr)	99		78 - 122					11/28/22 20:45	1
Dibromofluoromethane (Surr)	88		73 - 120					11/28/22 20:45	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-176715-1

Project/Site: Ford LTP - Off Site

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Date Collected: 11/16/22 11:22 Matrix: Water

Date Received: 11/18/22 08:00

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Method: SW846 8260D SIM	I - Volatile Orga	anic Comp	ounds (GC/N	IS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/28/22 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 120					11/28/22 00:33	1
_ Method: SW846 8260D - Vo	olatile Organic	Compound	ds by GC/MS						
Analyte	_	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/28/22 21:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/28/22 21:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/28/22 21:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/28/22 21:10	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/28/22 21:10	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/28/22 21:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137					11/28/22 21:10	1

56 - 136

78 - 122

73 - 120

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11/28/22 21:10

11/28/22 21:10

11/28/22 21:10

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-176715-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surre	ogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-176712-B-3 MS	Matrix Spike	97	91	98	91
240-176712-B-3 MSD	Matrix Spike Duplicate	97	92	98	93
240-176715-1	TRIP BLANK_218	101	87	99	88
240-176715-2	MW-171S_111622	101	87	97	89
LCS 240-553589/4	Lab Control Sample	92	91	97	94
MB 240-553589/7	Method Blank	96	90	99	90

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

Lab Sample ID Client Sample ID 240-176715-2 MW-171S_111622 240-176715-2 MS MW-171S_111622 240-176715-2 MSD MW-171S_111622	DCA (66-120) 103 109	
240-176715-2 MW-171S_111622 240-176715-2 MS MW-171S_111622	103	
240-176715-2 MS MW-171S_111622		
— · · · · · · · · · · · · · · · · · · ·	109	
240-176715-2 MSD MW-171S 111622		
210 170710 2 11102	113	
LCS 240-553481/3 Lab Control Sample	98	
MB 240-553481/4 Method Blank	97	

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

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Client: ARCADIS U.S., Inc. Job ID: 240-176715-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-553589/7

Matrix: Water

Analysis Batch: 553589

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			11/28/22 14:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/28/22 14:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/28/22 14:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/28/22 14:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/28/22 14:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/28/22 14:54	1

MB MB Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 96 62 - 137 11/28/22 14:54 4-Bromofluorobenzene (Surr) 90 56 - 136 11/28/22 14:54 Toluene-d8 (Surr) 99 78 - 122 11/28/22 14:54 Dibromofluoromethane (Surr) 90 73 - 120 11/28/22 14:54

Lab Sample ID: LCS 240-553589/4

Matrix: Water

Analysis Batch: 553589

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	22.9		ug/L		92	63 - 134	
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	77 - 123	
Tetrachloroethene	25.0	24.7		ug/L		99	76 - 123	
trans-1,2-Dichloroethene	25.0	23.6		ug/L		95	75 - 124	
Trichloroethene	25.0	23.4		ug/L		94	70 - 122	
Vinyl chloride	12.5	10.1		ug/L		81	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		62 - 137
4-Bromofluorobenzene (Surr)	91		56 ₋ 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	94		73 - 120

Lab Sample ID: 240-176712-B-3 MS

Matrix: Water

Analysis Batch: 553589

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	10	U	250	207		ug/L		83	56 - 135	
cis-1,2-Dichloroethene	370		250	599		ug/L		91	66 - 128	
Tetrachloroethene	10	U	250	207		ug/L		83	62 - 131	
trans-1,2-Dichloroethene	110		250	358		ug/L		98	56 - 136	
Trichloroethene	590		250	885	E	ug/L		118	61 - 124	
Vinyl chloride	10	U	125	91.1		ug/L		73	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	91		56 - 136
Toluene-d8 (Surr)	98		78 - 122

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

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

Lab Sample ID: 240-176712-B-3 MS

Matrix: Water

Analysis Batch: 553589

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

MS MS

%Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 91 73 - 120

Lab Sample ID: 240-176712-B-3 MSD

Matrix: Water

Analysis Batch: 553589

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	10	U	250	229		ug/L		91	56 - 135	10	26
cis-1,2-Dichloroethene	370		250	603		ug/L		93	66 - 128	1	14
Tetrachloroethene	10	U	250	217		ug/L		87	62 - 131	5	20
trans-1,2-Dichloroethene	110		250	356		ug/L		97	56 - 136	1	15
Trichloroethene	590		250	816	E	ug/L		90	61 - 124	8	15
Vinyl chloride	10	U	125	104		ug/L		83	43 - 157	13	24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	92		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	93		73 - 120

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

MB MB

Lab Sample ID: MB 240-553481/4

Matrix: Water

Analysis Batch: 553481

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

Client Sample ID: Lab Control Sample

Limits

Client Sample ID: MW-171S 111622

80 - 122

D %Rec

98

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 11/27/22 19:42 0.86 ug/L MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 66 - 120 97 11/27/22 19:42

Lab Sample ID: LCS 240-553481/3

Matrix: Water

Analyte

1,4-Dioxane

Prep Type: Total/NA **Analysis Batch: 553481** Spike LCS LCS %Rec

Result Qualifier

9.78

Unit

ug/L

Added

66 - 120

10.0

LCS LCS Surrogate %Recovery Qualifier Limits

98

Lab Sample ID: 240-176715-2 MS

Matrix: Water

Analysis Batch: 553481

1,2-Dichloroethane-d4 (Surr)

7 maryoro Datom 600 for	Sample S	Sample	Spike	MS	MS				%Rec
Analyte	Result (Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	2.0	U	10.0	10.3		ua/L		103	51 - 153

Eurofins Canton

Prep Type: Total/NA

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-176715-1

Project/Site: Ford LTP - Off Site

1,2-Dichloroethane-d4 (Surr)

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	109		66 - 120								
Lab Sample ID: 240-1767 Matrix: Water	715-2 MSD						Client	Sample	ID: MW-1 Prep Ty	_	
Analysis Batch: 553481										•	
•	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	10.9		ug/L		109	51 - 153	6	16
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								

QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-176715-1

GC/MS VOA

Analysis Batch: 553481

Lab Sample ID 240-176715-2	Client Sample ID MW-171S_111622	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-553481/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-553481/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-176715-2 MS	MW-171S_111622	Total/NA	Water	8260D SIM	
240-176715-2 MSD	MW-171S_111622	Total/NA	Water	8260D SIM	

Analysis Batch: 553589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176715-1	TRIP BLANK_218	Total/NA	Water	8260D	
240-176715-2	MW-171S_111622	Total/NA	Water	8260D	
MB 240-553589/7	Method Blank	Total/NA	Water	8260D	
LCS 240-553589/4	Lab Control Sample	Total/NA	Water	8260D	
240-176712-B-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-176712-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-176715-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_218 Lab Sample ID: 240-176715-1

Date Collected: 11/16/22 00:00 Matrix: Water

Date Received: 11/18/22 08:00

Batch Batch Dilution Batch Prepared **Prep Type** Method **Factor** Number Analyst or Analyzed Type Run Lab 11/28/22 20:45 Total/NA Analysis 8260D 553589 LEE EET CAN

Date Collected: 11/16/22 11:22 Date Received: 11/18/22 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	553589	LEE	EET CAN	11/28/22 21:10
Total/NA	Analysis	8260D SIM		1	553481	CS	EET CAN	11/28/22 00:33

Laboratory References:

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

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Matrix: Water

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Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-176715-1

Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Canton

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	02-27-23
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23
Illinois	NELAP	200004	07-31-23
lowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23
Kentucky (WW)	State	KY98016	12-31-22
Minnesota	NELAP	039-999-348	12-31-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-27-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

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Comparison Com	Test	TestAmerica Laboratory location: Brighton 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	on Drive, Suite 200 / Brighton, MI 48116 / 81	-229-2763	THE LEADER IN ENVIRONMENTAL TEST MG
Main 1987 Leaves Leave	Client Contact	<u></u>	RCRA	The state of the s	
Supple threat designation Continue to the property of the country of the coun	Company Name: Arcadis	W			TestAmerica Laboratories, Inc.
The part March M	Address: 28550 Cabot Drive, Suite 500	Chent Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
Project Name Part Project Part Par	City/State/Zip: Novi, MI, 48377	elephone: 248-994-2240	Telephone: 248-994-2293	Telephone: 330-497-9396	1 of 1 COCs
Project Name Ford ITP Grissine Sample Items for Sample Item	Phone: 248-994-2240	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	nly
Sample Identification Sample Black ABLANK	Project Name: Ford LTP Off-Site Project Number: 30146655,402.04	Sampler Name: 2 hild Fence In Method of Shipment/Carrier:	eeks ceks eek	V	Walk-in client Lab sampling
Sumple Identification Sumple Date Sump	PO # 30146655.402.04	Shipping/Tracking No:	(N / A) ə	8098 8560B	Job/SDG No:
TRIP BLANK 21 S		Matrix	Idans	DCE 85	
TRIP BLANK_318 PWW-1715_11622 IIII W 1 1 1 22 6 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Sample Identification	Sample Time Adueous Sediment Solid	Filtered S Onher: NaOH ZnAc NaOH HCI HUO3	cis-1,2-DC Trans-1,2 PCE 8260 TCE 8260	Sample Specific Notes / Special Instructions:
Possible Hazard Identification Wild Wi	TRIP BLANK_	2	Z	× × × ×	1 Trip Blank
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TestAmerica

Chain of Custody Record

MICHIGAN 190

Time preserved: Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen:

DATA VERIFICATION REPORT



November 30, 2022

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: 30146655.402.04 off-site

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

Laboratory submittal: 176715-1 Sample date: 2022-11-16

Report received by CADENA: 2022-11-30

Initial Data Verification completed by CADENA: 2022-11-30

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, MS/MSD Recovery, MS/MSD RPD, 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: E203631

Laboratory: Eurofins Environment Testing LLC - Barberton

Laboratory Submittal: 176715-1

		TRIP BLANK_218 2401767151 11/16/2022 Papert Valid			V-1:-I	MW-171S_111622 2401767152 11/16/2022			Valid	
	Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	
GC/MS VOC										
OSW-826	<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	
OSW-826	<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 # 240-176715-1

CADENA Verification Report: 2022-11-30

Analyses Performed By:

TestAmerica North Canton, Ohio

Report # 47942R Review Level: Tier III Project: 30146655.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-176715-1 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) includes 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 Collection		Ana	lysis
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM
TRIP BLANK_218	240-176715-1	Water	11/16/22		Х	
MW-171S_111622	240-176715-2	Water	11/16/22		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Repo	orted		mance ptable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
2. 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		X	
10. Fully executed Chain-of-Custody (COC) form		Х		X	
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.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - 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 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	VOCs: 8260D/8260D-SIM			rmance ptable	Not
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation		1			
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
lon abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		Х		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Vinayak Hegde

SIGNATURE:

DATE: December 14, 2022

PEER REVIEW: Andrew Korycinski

DATE: December 17, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

<u>TestAmerica</u>

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Special Instructions/OC Requirements & Comments			Ulikii	own				Ren	urn to	Clien	t 🔽	Dispe	osal B	y Lab		' A	rchive	For		M	onths					
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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-176715-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_218

Date Collected: 11/16/22 00:00 Date Received: 11/18/22 08:00 Lab Sample ID: 240-176715-1

Matrix: Water

Method: SW846 8260D - Vo Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/28/22 20:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/28/22 20:45	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/28/22 20:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/28/22 20:45	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/28/22 20:45	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/28/22 20:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			•		11/28/22 20:45	1
4-Bromofluorobenzene (Surr)	87		56 - 136					11/28/22 20:45	1
Toluene-d8 (Surr)	99		78 - 122					11/28/22 20:45	1
Dibromofluoromethane (Surr)	88		73 - 120					11/28/22 20:45	1

11/30/2022

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Client Sample Results

Job ID: 240-176715-1 Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-176715-2 Client Sample ID: MW-171S_111622

1.0 U

1.0 U

Date Collected: 11/16/22 11:22 **Matrix: Water**

Date Received: 11/18/22 08:00

Trichloroethene

Vinyl chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/28/22 00:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		66 - 120					11/28/22 00:33	
Method: SW846 8260D - Vo	olatile Organic	Compound	ds by GC/MS						
		Compound Qualifier	ds by GC/MS	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8260D - Vo Analyte 1,1-Dichloroethene		Qualifier	-			<u>D</u> .	Prepared	Analyzed 11/28/22 21:10	Dil Fac
Analyte	Result	Qualifier U	RL _	MDL 0.49		<u> </u>	Prepared		Dil Fac
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U U		MDL 0.49	ug/L ug/L	<u> </u>	Prepared	11/28/22 21:10	Dil Fac 1 1 1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101	62 - 137		11/28/22 21:10	1
4-Bromofluorobenzene (Surr)	87	56 - 136		11/28/22 21:10	1
Toluene-d8 (Surr)	97	78 - 122		11/28/22 21:10	1
Dibromofluoromethane (Surr)	89	73 - 120		11/28/22 21:10	1

1.0

1.0

0.44 ug/L

0.45 ug/L

11/28/22 21:10

11/28/22 21:10