PREPARED FOR

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

Generated 3/22/2023 7:53:32 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-181868-1

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

Generated 3/22/2023 7:53:32 AM

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

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Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-181868-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-181868-1

Project/Site: Ford LTP - Off Site

Qualifiers

G	C/I	VI.S	V	OA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

Glossary

MPN

MQL

NC

ND NEG

POS

PQL

QC RER

RL

RPD

TEF

TEQ

TNTC

PRES

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

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

Giossaiy	
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)

Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-181868-1

Project/Site: Ford LTP - Off Site

Job ID: 240-181868-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-181868-1

Receipt

The samples were received on 3/14/2023 9:50 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 1.4°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: 240-181868-1

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: 240-181868-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-181868-1	TRIP BLANK_57	Water	03/10/23 00:00	03/14/23 09:50
240-181868-2	MW-167S_031023	Water	03/10/23 14:50	03/14/23 09:50

Q

Detection Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181868-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_57 Lab Sample ID: 240-181868-1

No Detections.

Client Sample ID: MW-167S_031023 Lab Sample ID: 240-181868-2

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181868-1

Project/Site: Ford LTP - Off Site

Date Received: 03/14/23 09:50

Client Sample ID: TRIP BLANK_57

Lab Sample ID: 240-181868-1 Date Collected: 03/10/23 00:00

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			03/18/23 00:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/18/23 00:48	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/18/23 00:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/18/23 00:48	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/18/23 00:48	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/18/23 00:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137			_		03/18/23 00:48	1
4-Bromofluorobenzene (Surr)	105		56 ₋ 136					03/18/23 00:48	1
Toluene-d8 (Surr)	93		78 - 122					03/18/23 00:48	1
Dibromofluoromethane (Surr)	95		73 - 120					03/18/23 00:48	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181868-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-167S_031023

Date Collected: 03/10/23 14:50 Date Received: 03/14/23 09:50

Surrogate

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Lab Sample ID: 240-181868-2

Prepared

Matrix: Water

Dil Fac

Analyzed

03/18/23 01:11

03/18/23 01:11

03/18/23 01:11

03/18/23 01:11

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/17/23 14:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		66 - 120			-		03/17/23 14:19	1
Method: SW846 8260D - Volat Analyte	Result	Qualifier	RL		Unit	<u>D</u> .	Prepared	Analyzed	Dil Fac
	•	•		MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier		0.49	ug/L	<u>D</u> .	Prepared	Analyzed 03/18/23 01:11	Dil Fac
Analyte	Result	Qualifier U	RL		ug/L	<u>D</u> .	Prepared		Dil Fac 1
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U U		0.49	ug/L ug/L	<u>D</u> -	Prepared	03/18/23 01:11	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	ug/L ug/L ug/L	<u>D</u> -	Prepared	03/18/23 01:11 03/18/23 01:11	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	0.49 0.46 0.44	ug/L ug/L ug/L ug/L	<u>D</u>	Prepared	03/18/23 01:11 03/18/23 01:11 03/18/23 01:11	Dil Fac 1 1 1 1 1 1 1

Limits

62 - 137

56 - 136

78 - 122

73 - 120

%Recovery Qualifier

95

97

89

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181868-1 Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-181704-B-15 MS	Matrix Spike	95	106	93	91
240-181704-B-15 MSD	Matrix Spike Duplicate	96	102	91	96
240-181868-1	TRIP BLANK_57	98	105	93	95
240-181868-2	MW-167S_031023	95	97	89	91
LCS 240-565855/5	Lab Control Sample	99	107	96	96
MB 240-565855/8	Method Blank	95	100	89	93

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	(66-120)	
240-181763-H-4 MSD	Matrix Spike Duplicate	91	
240-181763-K-4 MS	Matrix Spike	83	
240-181868-2	MW-167S_031023	87	
LCS 240-565819/4	Lab Control Sample	83	
MB 240-565819/6	Method Blank	85	
Surrogate Legend			
DCA = 1,2-Dichloroetha	ne-d4 (Surr)		

Job ID: 240-181868-1

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

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

Lab Sample ID: MB 240-565855/8

Matrix: Water

Analysis Batch: 565855

Client Sample ID: Method Blan	k
Prep Type: Total/N	Α

MB MB Dil Fac Analyte Result Qualifier RLMDL Unit D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 03/17/23 16:39 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 03/17/23 16:39 1.0 U 1.0 0.44 ug/L 03/17/23 16:39 Tetrachloroethene trans-1,2-Dichloroethene 1.0 U 1.0 03/17/23 16:39 0.51 ug/L Trichloroethene 1.0 U 1.0 0.44 ug/L 03/17/23 16:39 Vinyl chloride 1.0 U 1.0 0.45 ug/L 03/17/23 16:39

MB MB

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95	62 - 137		03/17/23 16:39	1
4-Bromofluorobenzene (Surr)	100	56 - 136		03/17/23 16:39	1
Toluene-d8 (Surr)	89	78 - 122		03/17/23 16:39	1
Dibromofluoromethane (Surr)	93	73 - 120		03/17/23 16:39	1

Lab Sample ID: LCS 240-565855/5

Matrix: Water

Analysis Batch: 565855

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

١		Spike	LCS	LCS			%Rec	
	Analyte	Added	Result	Qualifier I	Jnit	D %Rec	Limits	
	1,1-Dichloroethene	20.0	16.7		ıg/L	84	63 - 134	
	cis-1,2-Dichloroethene	20.0	17.8	ι	ug/L	89	77 - 123	
	Tetrachloroethene	20.0	17.9	ι	ıg/L	89	76 - 123	
	trans-1,2-Dichloroethene	20.0	17.3	ı	ıg/L	86	75 - 124	
	Trichloroethene	20.0	17.8	ι	ug/L	89	70 - 122	
	Vinyl chloride	20.0	16.3	ι	ug/L	81	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 _ 137
4-Bromofluorobenzene (Surr)	107		56 - 136
Toluene-d8 (Surr)	96		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-181704-B-15 MS

Matrix: Water

Analysis Batch: 565855

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	
cis-1,2-Dichloroethene	910	F2 F1	1000	1490	F1	ug/L		59	66 - 128	
Tetrachloroethene	1000	F1	1000	1320	F1	ug/L		30	62 - 131	
Trichloroethene	190	F2	1000	824		ug/L		64	61 - 124	
Vinyl chloride	800		1000	1230		ug/L		43	43 - 157	

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		62 - 137
4-Bromofluorobenzene (Surr)	106		56 ₋ 136
Toluene-d8 (Surr)	93		78 - 122
Dibromofluoromethane (Surr)	91		73 - 120

Eurofins Canton

3/22/2023

Job ID: 240-181868-1

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-181704-B-15 MSD

Matrix: Water

Analysis Batch: 565855

, , , , , , , , , , , , , , , , , , , ,	Samnle	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
cis-1,2-Dichloroethene	910	F2 F1	1000	1780	F2	ug/L		88	66 - 128	18	14
Tetrachloroethene	1000	F1	1000	1500	F1	ug/L		49	62 - 131	13	20
Trichloroethene	190	F2	1000	973	F2	ug/L		79	61 - 124	17	15
Vinyl chloride	800		1000	1550		ug/L		75	43 - 157	23	24

RL

2.0

Limits

Spike

Added

Limits

66 - 120

Spike

Added

10.0

10.0

66 - 120

MDL Unit

0.86 ug/L

LCS LCS

MSD MSD

11.4

Result Qualifier

Unit

ug/L

10.9

Result Qualifier

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 96 62 - 137 4-Bromofluorobenzene (Surr) 102 56 - 136 Toluene-d8 (Surr) 78 - 122 91 96 73 - 120 Dibromofluoromethane (Surr)

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

Lab Sample ID: MB 240-565819/6

Matrix: Water

Analysis Batch: 565819

MB MB

Analyte Result Qualifier 1,4-Dioxane 2.0 U

MB MB Qualifier Surrogate %Recovery 85

1,2-Dichloroethane-d4 (Surr)

Lab Sample ID: LCS 240-565819/4

Matrix: Water

Analysis Batch: 565819

Analyte 1,4-Dioxane

Surrogate 1,2-Dichloroethane-d4 (Surr)

Lab Sample ID: 240-181763-H-4 MSD **Matrix: Water**

Analyte

1,4-Dioxane

Analysis Batch: 565819

MSD MSD Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 91 66 - 120

LCS LCS

Sample Sample

2.0 U

Result Qualifier

83

Qualifier

%Recovery

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

Client Sample ID: Method Blank

Analyzed

03/17/23 13:06

03/17/23 13:06

Prep Type: Total/NA

Dil Fac Analyzed Prepared

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

%Rec Unit D %Rec Limits ug/L 109 80 - 122

Prepared

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

%Rec **RPD** D %Rec Limits RPD Limit

114 51 - 153 16

Eurofins Canton



Dil Fac

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181868-1

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-181763-K-4 MS

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

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analysis Batch: 565819

Matrix: Water

Sample Sample Spike MS MS %Rec Result Qualifier Result Qualifier Added Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 10.7 ug/L 107 51 - 153

MS MS

Surrogate%RecoveryQualifierLimits1,2-Dichloroethane-d4 (Surr)8366 - 120

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4.0

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QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-181868-1

GC/MS VOA

Analysis Batch: 565819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-181868-2	MW-167S_031023	Total/NA	Water	8260D SIM	
MB 240-565819/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-565819/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-181763-H-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
240-181763-K-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	

Analysis Batch: 565855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-181868-1	TRIP BLANK_57	Total/NA	Water	8260D	<u> </u>
240-181868-2	MW-167S_031023	Total/NA	Water	8260D	
MB 240-565855/8	Method Blank	Total/NA	Water	8260D	
LCS 240-565855/5	Lab Control Sample	Total/NA	Water	8260D	
240-181704-B-15 MS	Matrix Spike	Total/NA	Water	8260D	
240-181704-B-15 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-181868-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_57

Lab Sample ID: 240-181868-1 Date Collected: 03/10/23 00:00

Matrix: Water

Date Received: 03/14/23 09:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	565855	HMB	EET CAN	03/18/23 00:48

Client Sample ID: MW-167S_031023 Lab Sample ID: 240-181868-2

Date Collected: 03/10/23 14:50 Matrix: Water

Date Received: 03/14/23 09:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	565855	НМВ	EET CAN	03/18/23 01:11
Total/NA	Analysis	8260D SIM		1	565819	BAJ	EET CAN	03/17/23 14:19

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-181868-1

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	12-31-23
Michigan	State	9135	02-27-23 *
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-28-24
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

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

	America Laboratory location: Brighton	10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	29-2763	THE LEADER IN ENVIRONMENTAL TESTING
Client Contact Company Name: Arcadis	Regulatory program: DW	│ NPDES │ RCRA │ Other		To include A party.
Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
City/State/Zire Navi MI 48177	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	
City Control Layer, City, City	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	For lab use only
Project Name: Ford LTP Off-Site Project Number: 30167538.402.04	Sampler Name:			Walk-in client Lab sampling
PO#30167538.402.04	Shipping/Tracking No:	mple (Y / I	QE 8560B	Job/SDG No:
Sample Identification	Sample Date Sample Time Aducous Solide Others	ZaOH ZaOH Unpres Other: Other:	7.1-DCE 82 cis-1,2-DCE Trans-1,2-D PCE 8260B Vinyl Chloric 1,4-Dioxane	Sample Specific Notes / Special Instructions:
✓ TRIP BLANK_	1	1 N	× × × × ×	1 Trip Blank
NW-1614-031623	9 05 h 2201/20) 	XXXXX	3 VOAs for 8260B 3 VOAs for 8260B SIM
8 of 19			240-181868 Chain of Custody	
Possible Hazard Identification Non-Hazard Flammable Skin Irritant	tant — Poison B — Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Client	mples are retained longer than 1 month) ab Archive For Months	
Special Instructions/OC Requirements & Comments: Sample Address: Submit all results through Cadena arytomalia@cadenacb.com. Cadena #E20063 Level IV Reporting requested.	+		, co	
Relinquished by: Relinquished by: Relinquished by: MM	Company: Arcadis Bute/Time: Company: Arcadis 3/13/23 Company: EEM 3/13/33	1425 Received by:	Company Cocil	Date/film: Date/film: Date/film: 3 3 3 3 3 3 3 3 3
Teckhrinica & Diesern III. see Ladernakis of Faddrinacia Jabordorea, Inc. 75/27/27/2019 19:00:00:00:00:00:00:00:00:00:00:00:00:00				

Eurofins - Canton Sample Receipt Form/Narrative Login #: Login #:
Client ARADI'S Site Name Cooler unpacked by:
Cooler Received on 3/14/23 Opened on 3/14/23 M. A.
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other
Receipt After-hours: Drop-off Date/Time Storage Location
Eurofins Cooler # E C Foam Box Client Cooler Box Other
Packing material used. Bubble Wrap Foam Plastic Bag None Other
COOLANT: Wet Ice Blue Ice Dry Ice Water None
1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN # IR-13 (CF -0.2 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
IR GUN # IR-16 (CF -0.1°C) Observed Cooler Temp. 1_5 °C Corrected Cooler Temp. 1.4 °C
IR GUN # IR-17 (CF -0.3°C) Observed Cooler Temp°C Corrected Cooler Temp°C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA Tests that are not checked for pH by
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No Receiving:
-Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No VOAs
4. Did custody papers accompany the sample(s)? Oil and Grease TOC
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Ye No
7. Did all bottles arrive in good condition (Unbroken)?
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? (Yes) No (No. For each results does the COC precife responsible (III) the formation (IV) is the contribution (IV) in the contribution (IV) in the contribution (IV) is the contribution (IV) in the contribution (IV) in the contribution (IV) in the contribution (IV) is the contribution (IV) in the con
9. For each sample, does the COC specify preservatives (YN), # of containers (YN), and sample type of grab/comp (YN)?
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA) pH Strip Lot# HC293086
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 0 1042016 Yes No
17. Was a LL Hg or Me Hg trip blank present? Yes No
Contacted PM by via Verbal Voice Mail Other
Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
19. SAMPLE CONDITION
Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)
20. SAMPLE PRESERVATION
Sample(s) were further preserved in the laboratory.
Sample(s) were further preserved in the laboratory. Time preserved: Preservative(s) added/Lot number(s):
Time preserved:Preservative(s) added/Lot number(s): VOA Sample Preservation - Date/Time VOAs Frozen:

DATA VERIFICATION REPORT



March 22, 2023

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 off-site

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

Laboratory submittal: 181868-1 Sample date: 2023-03-10

Report received by CADENA: 2023-03-22

Initial Data Verification completed by CADENA: 2023-03-22

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.

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch MS/MSD recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

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 $48108\ 517\text{-}819\text{-}0356$

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 - Barberton

Laboratory Submittal: 181868-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401818 3/10/20	3681			MW-167 2401818 3/10/20			
				Report		Valid			Valid	
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260										
	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>DDSIM</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 # 240-181868-1

CADENA Verification Report: 2023-03-22

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49128R Review Level: Tier III Project: 30167538.601.01

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-181868-1 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 Collection		Ana	lysis
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM
TRIP BLANK_57	240-181868-1	Water	03/10/23		Х	
MW-167S_031023	240-181868-2	Water	03/10/23		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance ptable	Not
	No	Yes	No	Yes	Required
1. Sample receipt condition		X		X	
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		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 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 Acce	Not	
	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	
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		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 29, 2023

PEER REVIEW: Andrew Korycinski

DATE: March 30, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record



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

Client Contact	Regula	tory program	:		DW	-	NPDES	5	Г	RCI	RA	Г	Oth	ner [_						
Company Name: Arcadis	Client Project	Manager: Kris	Hinsk	(PV		Site (ontac	1. Ch	ristin	19 We	aver				Lab	Conta	ot: Mi	ka Da	Monie				estAmerica Lai	oratories, Inc
Address: 28550 Cabot Drive, Suite 500															Lab Contact: Mike DelMonico							AC NO:		
City/State/Zip: Novi, MI, 48377	Telephone: 248	1-994-2240				Telephone: 248-994-2240 Analysis Turnaround Time						Telephone: 330-497-9396							\vdash	1 of 1	COCs			
Phone: 248-994-2240	Email: kristof	er.hinskey@ar	readis.	com								Analyses						For lab use only						
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Project Name: Ford LTP Off-Site	Su	M	CA	6	Si G	10) day	~	3 w			138		1								La	b sampling	
Project Number: 30167538.402.04	Method of Ship	ment/Carrier:	- 11					-	l w 2 da			2	S S			8			_ m	SIM				Senter
PO # 30167538.402.04	Shipping/Tracking No:				l day					8260B	E 8260B			8260B	8260B		Jol	b/SDG No:						
			330		Matrix		Contain	ners &	k Pres	servati	ves	Sam		8260B	OCE 8	2-DC	90B	308	loride	ane 8				
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment Solid Other;	H2SO4	HVO3	NaOH	ZnAc	Unpres	Other:	Filtered	Composit	1,1-DCE	cis-1,2-DCE	Trans-1,2-DCE	PCE 8260B	TCE 8260B	Vinyl Chloride	1,4-Dioxane			Sample Spec Special Inst	
✓ TRIP BLANK_	-			1			1					N	I G	X	X	Х	X	Х	X				1 Trip Blan	k
VM-1012-031053	03/1025	1450		6			6					A	16	X	X	X	X	X	X	X			3 VOAs for 8 3 VOAs for 8	
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Possible Hazard Identification Non-Hazard Flammable Skin Irrit	/= D					Sa	mple [Dispos	sal (A	A fee i	may be	asses	sed it	f samp					than 1	month				
Special Instructions/QC Requirements & Comments:	ant Poise	a no	Unk	nown			Rei	lurn to	o Clie	ent	~	Dispo	sal B	y Lab	_		rchive	For		Мс	onths			
Sample Address: Submit all results through Cadena at Itomalia@cadenacl Level IV Reporting requested.	b.com. Cadena	TEMPS.		a																				
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Client Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 240-181868-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_57 Lab Sample ID: 240-181868-1

Date Collected: 03/10/23 00:00 Matrix: Water Date Received: 03/14/23 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/18/23 00:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/18/23 00:48	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/18/23 00:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/18/23 00:48	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/18/23 00:48	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/18/23 00:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137			•		03/18/23 00:48	1
4-Bromofluorobenzene (Surr)	105		56 ₋ 136					03/18/23 00:48	1
Toluene-d8 (Surr)	93		78 - 122					03/18/23 00:48	1
Dibromofluoromethane (Surr)	95		73 - 120					03/18/23 00:48	1

Date Collected: 03/10/23 14:50
Date Received: 03/14/23 09:50

Dibromofluoromethane (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/17/23 14:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		66 - 120			-		03/17/23 14:19	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			03/18/23 01:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/18/23 01:11	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/18/23 01:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/18/23 01:11	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/18/23 01:11	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/18/23 01:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137			-		03/18/23 01:11	1
4-Bromofluorobenzene (Surr)	97		56 - 136					03/18/23 01:11	1
	89		78 ₋ 122					03/18/23 01:11	

73 - 120

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Matrix: Water

03/18/23 01:11