PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 11/15/2023 4:25:11 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-194824-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 11/15/2023 4:25:11 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-194824-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-194824-1

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 US Inc

Job ID: 240-194824-1

Project/Site: Ford LTP - Off Site

Job ID: 240-194824-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-194824-1

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 11/4/2023~8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.6° C and 2.9° C

GC/MS VOA

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

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Method Summary

Client: ARCADIS US Inc Job ID: 240-194824-1

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 US Inc Project/Site: Ford LTP - Off Site

Job ID: 240-194824-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-194824-1	TRIP BLANK_28	Water	11/02/23 00:00	11/04/23 08:00
240-194824-2	MW-160S_110223	Water	11/02/23 11:47	11/04/23 08:00

Detection Summary

Client: ARCADIS US Inc Job ID: 240-194824-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_28 Lab Sample ID: 240-194824-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-194824-1

Project/Site: Ford LTP - Off Site

Date Received: 11/04/23 08:00

Client Sample ID: TRIP BLANK_28

Lab Sample ID: 240-194824-1 Date Collected: 11/02/23 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			11/11/23 17:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/23 17:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/23 17:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/23 17:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/23 17:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/23 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			_		11/11/23 17:32	1
4-Bromofluorobenzene (Surr)	77		56 ₋ 136					11/11/23 17:32	1
Toluene-d8 (Surr)	91		78 - 122					11/11/23 17:32	1
Dibromofluoromethane (Surr)	93		73 - 120					11/11/23 17:32	1

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-194824-1

Project/Site: Ford LTP - Off Site

Date Received: 11/04/23 08:00

Client Sample ID: MW-160S_110223

Lab Sample ID: 240-194824-2 Date Collected: 11/02/23 11:47

Matrix: Water

Method: SW846 8260D SIM - \	/olatile Organic C	ompounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/14/23 00:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		66 - 120			_		11/14/23 00:40	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/11/23 22:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/23 22:06	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/23 22:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/23 22:06	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/23 22:06	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/23 22:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		62 - 137			_		11/11/23 22:06	1
4-Bromofluorobenzene (Surr)	84		56 ₋ 136					11/11/23 22:06	1
Toluene-d8 (Surr)	100		78 - 122					11/11/23 22:06	1
Dibromofluoromethane (Surr)	106		73 - 120					11/11/23 22:06	1

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-194824-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-194809-C-1 MS	Matrix Spike	116	97	102	108
240-194809-D-1 MSD	Matrix Spike Duplicate	104	83	92	100
240-194824-1	TRIP BLANK_28	106	77	91	93
240-194824-2	MW-160S_110223	121	84	100	106
LCS 240-594284/5	Lab Control Sample	100	86	95	96
MB 240-594284/8	Method Blank	108	77	91	94
0					

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)	
240-194776-H-2 MS	Matrix Spike	85	
240-194776-N-2 MSD	Matrix Spike Duplicate	83	
240-194824-2	MW-160S_110223	89	
LCS 240-594455/3	Lab Control Sample	84	
MB 240-594455/5	Method Blank	82	
Surrogate Legend			

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

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Job ID: 240-194824-1

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-594284/8

Matrix: Water

Analysis Batch: 594284

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

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/11/23 15:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/23 15:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/23 15:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/23 15:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/23 15:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/23 15:04	1

		MB	MB				
	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	108		62 - 137		11/11/23 15:04	1
	4-Bromofluorobenzene (Surr)	77		56 - 136		11/11/23 15:04	1
	Toluene-d8 (Surr)	91		78 - 122		11/11/23 15:04	1
ı	Dibromofluoromethane (Surr)	94		73 - 120		11/11/23 15:04	1

Lab Sample ID: LCS 240-594284/5

Matrix: Water

Analysis Batch: 594284

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	30.3	-	ug/L		121	63 - 134	
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	77 - 123	
Tetrachloroethene	25.0	26.9		ug/L		108	76 - 123	
trans-1,2-Dichloroethene	25.0	26.8		ug/L		107	75 - 124	
Trichloroethene	25.0	25.9		ug/L		103	70 - 122	
Vinyl chloride	12.5	12.3		ug/L		98	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	86		56 - 136
Toluene-d8 (Surr)	95		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Analysis Batch: 594284

Lab Sample ID: 240-194809-C-1 MS Client Sample ID: Matrix Spike **Matrix: Water Prep Type: Total/NA**

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	25.0	32.1		ug/L		128	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	25.7		ug/L		103	66 - 128	
Tetrachloroethene	1.0	U	25.0	26.8		ug/L		107	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	26.8		ug/L		107	56 - 136	
Trichloroethene	1.0	U	25.0	26.4		ug/L		106	61 - 124	
Vinyl chloride	1.0	U	12.5	10.2		ug/L		82	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	116		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	102		78 - 122

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Limits

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Job ID: 240-194824-1

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

MS MS

Lab Sample ID: 240-194809-C-1 MS

Lab Sample ID: 240-194809-D-1 MSD

Matrix: Water

Analysis Batch: 594284

Client Sample ID: Matrix Spike

101

43 - 157

Prep Type: Total/NA

Surrogate %Recovery Qualifier

Dibromofluoromethane (Surr) 108

73 - 120

ug/L

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

Matrix: Water

Vinyl chloride

Analysis Batch: 594284

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 1,1-Dichloroethene 1.0 U 25.0 30.3 ug/L 121 56 - 135 6 26 cis-1,2-Dichloroethene 10 U 25.0 23 9 95 66 - 128 ug/L 8 14 Tetrachloroethene 1.0 U 25.0 25.0 ug/L 100 62 - 131 20 trans-1,2-Dichloroethene 15 1.0 U 25.0 26.1 ug/L 104 56 - 136 3 Trichloroethene 1.0 U 25.0 24.7 ug/L 99 61 - 124 7 15

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1.0 U MSD MSD

Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 104 62 - 137 4-Bromofluorobenzene (Surr) 83 56 - 136 Toluene-d8 (Surr) 92 78 - 122 Dibromofluoromethane (Surr) 100 73 - 120

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

Lab Sample ID: MB 240-594455/5

Matrix: Water

Analysis Batch: 594455

Client Sample ID: Method Blank

%Rec

Limits

80 - 122

Client Sample ID: Matrix Spike

%Rec

94

Prep Type: Total/NA

21

Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 11/13/23 21:06

MB MB

MR MR

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 82 66 - 120 11/13/23 21:06

Lab Sample ID: LCS 240-594455/3

Analyte

1,4-Dioxane

Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA Analysis Batch: 594455

LCS LCS

Qualifier

Unit

ug/L

Result

9.43

Spike

Added

10.0

LCS LCS

%Recovery Qualifier Surrogate Limits 66 - 120 1,2-Dichloroethane-d4 (Surr) 84

Lab Sample ID: 240-194776-H-2 MS

Matrix: Water

Analysis Ratch: 594455

Alialysis batch: 534455										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	9.77		ug/L		98	51 - 153	

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Prep Type: Total/NA

QC Sample Results

Client: ARCADIS US Inc Job ID: 240-194824-1 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)	85		66 - 120

Lab Sample ID: 240-194776-N-2 MSD

Matrix: Water

Analysis Batch: 594455	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	10.3		ug/L		103	51 - 153	5	16

MSD MSD Surrogate %Recovery Qualifier

Limits 1,2-Dichloroethane-d4 (Surr) 83 66 - 120

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

Job ID: 240-194824-1

GC/MS VOA

Analysis Batch: 594284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
240-194824-1	TRIP BLANK_28	Total/NA	Water	8260D	
240-194824-2	MW-160S_110223	Total/NA	Water	8260D	
MB 240-594284/8	Method Blank	Total/NA	Water	8260D	
LCS 240-594284/5	Lab Control Sample	Total/NA	Water	8260D	
240-194809-C-1 MS	Matrix Spike	Total/NA	Water	8260D	
240-194809-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 594455

Lab Sample ID 240-194824-2	Client Sample ID MW-160S 110223	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-594455/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-594455/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-194776-H-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-194776-N-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-194824-1

Project/Site: Ford LTP - Off Site

Date Received: 11/04/23 08:00

Client Sample ID: TRIP BLANK_28

Lab Sample ID: 240-194824-1 Date Collected: 11/02/23 00:00

Matrix: Water

Dilution Batch Batch Batch

Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 594284 TJL2 EET CLE 11/11/23 17:32 Analysis

Client Sample ID: MW-160S_110223 Lab Sample ID: 240-194824-2

Date Collected: 11/02/23 11:47 **Matrix: Water**

Date Received: 11/04/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	594284	TJL2	EET CLE	11/11/23 22:06
Total/NA	Analysis	8260D SIM		1	594455	CS	EET CLE	11/14/23 00:40

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-194824-1 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
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
lowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23 *
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-02-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-23

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

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merica Laboratorie No: 1 of 1 COS use only n elient mpling GNo: P2.23/ 131 P3.23/ 131 Me. P4.24/ P4. P4.24/ P4. P5.25/ P4. P5.25/ P4. P6.25/ P	Tes	TestAmerica Laboratory location: Brighton	- 1	10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	· 题 。	HE EAL R NUBERN NTA TEATH
Chest Poper Names Name N	Client Contact	Regulatory program:	MQ	NPDES RCRA Other	j	
Contact Nature Cont	Company Name: Arcadis	I				Test America Laboratorias Inc
Full-three 180 Poly 230 Full-three 180 P	Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hi	inskey		ntact: Mike DelMonico	COC No:
Sign Principle	City/State/Zip: Novi, MI, 48377	Telephone: 248-994-2240			one: 330-497-9396	
Supplementary Supplementar	Phone: 248-994-2240	Email: kristoffer.hinskey@arca	dis.com	Analysis Jurnaround Jime	Analyses	
Wichold Allignment Current Without Current Without Allignment Curren	Project Name: Ford LTP OII-Site	Sampler Name:		TAT if different from below 3 weeks		Walk-in client
Simple True	Project Number: 30167538.402.04	Method of Shipment/Carrier:		v 2 weeks		Lab sampling
	PO#30167538.402.04	Shipping/Tracking No:		e (Y / N Grab	3560D	Job/SDG No:
11/02/123 1747 6 6 N 6 X X X X X X X X 1 1	Sample Identification	Sample Time	Sediment E	Composite Compos	CE 8260D	Sample Specific Notes / Special Instructions:
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TestAmerica

Chain of Custody Record

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Eurofins – Cleveland Sample Receipt Form/Narrative Login # : Barberton Facility	194824
Client Arcadis Site Name C	ooler unpacked by:
Cooler Received on 1/-4-23 Opened on 1/-4-23	
FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other	
Receipt After-hours: Drop-off Date/Time Storage Location	
Eurofins Cooler # 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	
	ed Cooler Temp°C
14. Were VOAs on the COC? 15. Were air bubbles >6 mm in any VOA vials? 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Receiving: VOAs Oil and Grease TOC Pe of grab/comp(V/N)? Ph Strip Lot# HC316719
17. Was a LL Hg or Me Hg trip blank present?	il Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	es processed by:
19. SAMPLE CONDITION	
Sample(s) were received after the recommended holding time h	nad expired.
Sample(s) were received in a brok	}
Sample(s) were received with bubble >6 mm in diamete	r. (NOUIY PM)
20. SAMPLE PRESERVATION	
Sample(s) were further prese	rved in the laboratory.
Sample(s) were further preservative(s) added/Lot number(s):	-
VOA Sample Preservation - Date/Time VOAs Frozen:	1

Login#: 194824

	- 6						
					on Sample Receipt I	Multiple Cooler Form	
C	ooler [escr)	iption	IR Gun#	Observed	Corrected	Coolant
9	(C	ircle)		(Circle)	Temp °C	Temp °C	(Circle)
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WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

11/15/2023

DATA VERIFICATION REPORT



November 15, 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 - Cleveland

Laboratory submittal: 194824-1 Sample date: 2023-11-02

Report received by CADENA: 2023-11-15

Initial Data Verification completed by CADENA: 2023-11-15

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 194824-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401948 11/2/20	3241			MW-160 2401948 11/2/20	3242	23	
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC OSW-826	nn									
0344-0206	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-194824-1

CADENA Verification Report: 2023-11-15

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 52097R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-194824-1 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 10	Labib	IVIALITA	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_28	240-194824-1	Water	11/02/2023		Х	
MW-160S_110223	240-194824-2	Water	11/02/2023		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		X		Х	
Master tracking list		X		Х	
4. Methods of analysis		X		Х	
5. Reporting limits		X		Х	
6. Sample collection date		X		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		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		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: Bindu Sree M B

SIGNATURE: BAShims

DATE: December 05, 2023

PEER REVIEW: Andrew Korycinski

DATE: December 11, 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

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Company Name: Arcadis																									т	estAmerica Labora	tories Inc
Address: 28550 Cabot Drive, Suite 500	Client Project	Manager: Kris	Hinsk	ey			Site	Conta	ict: C	Christi	ina V	eaver				Lab (Contac	t: Mik	e Del	Monic	0					OC No:	tories, inc.
City/State/Zip: Novi, MI, 48377	Telephone: 248	3-994-2240					Tele	phone	e: 248	8-994-	-2240					Telephone: 330-497-9396						╁					
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Project Name: Ford LTP Off-Site	Sampler Name						TAT	if differ	rent fre		w week:]									1			W	Valk-in client	
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Sample Identification	Sample Date	Sample Time	Air	Aqueous	Solid	Other:	H2SO4	HN03	HC	NaOH ZnAc/	NaOH	Other:	Filtered	3	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE	Vinyl Chloride	1,4-Dioxane				1	Special Instruct	
TRIP BLANK_ 28 MW-1605_ 110223				1				***************************************	1				N	I G	Х	Х	Х	X	X	X						1 Trip Blank	
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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-194824-1

Client Sample ID: TRIP BLANK_28

Lab Sample ID: 240-194824-1 Date Collected: 11/02/23 00:00 **Matrix: Water**

Date Received: 11/04/23 08:00

Project/Site: Ford LTP - Off Site

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/11/23 17:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/23 17:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/23 17:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/23 17:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/23 17:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/23 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137					11/11/23 17:32	1
4-Bromofluorobenzene (Surr)	77		56 - 136					11/11/23 17:32	1
Toluene-d8 (Surr)	91		78 - 122					11/11/23 17:32	1
Dibromofluoromethane (Surr)	93		73 - 120					11/11/23 17:32	1

Client Sample ID: MW-160S_110223 Lab Sample ID: 240-194824-2

							Matrix	: Water
	anic Comp	ounds (GC/N	IS)					
_		RL	•	Unit	D	Prepared	Analyzed	Dil Fa
2.0	U	2.0	0.86	ug/L		-	11/14/23 00:40	-
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
89		66 - 120			-		11/14/23 00:40	
itile Organic	Compoun	ds by GC/MS						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1.0	U	1.0	0.49	ug/L			11/11/23 22:06	1
1.0	U	1.0	0.46	ug/L			11/11/23 22:06	
1.0	U	1.0	0.44	ug/L			11/11/23 22:06	•
1.0	U	1.0	0.51	ug/L			11/11/23 22:06	
1.0	U	1.0	0.44	ug/L			11/11/23 22:06	1
1.0	U	1.0	0.45	ug/L			11/11/23 22:06	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
121		62 - 137			•		11/11/23 22:06	-
84		56 ₋ 136					11/11/23 22:06	1
100		78 - 122					11/11/23 22:06	1
106		73 - 120					11/11/23 22:06	1
	## Result 2.0 ## Recovery 89 10	Volatile Organic Comp Result Qualifier 2.0 U **Recovery 89 Qualifier 89 Atile Organic Compound Result Qualifier 1.0 U 4.0 U 4	Volatile Organic Compounds (GC/N) Result Qualifier RL 2.0 U 2.0	Volatile Organic Compounds (GC/MS) Result Qualifier RL MDL 2.0 0.86	Volatile Organic Compounds (GC/MS) Result Qualifier RL MDL Unit 2.0 U 2.0 0.86 ug/L	Volatile Organic Compounds (GC/MS) Result Qualifier RL MDL Unit D 2.0 U 2.0 0.86 ug/L	Volatile Organic Compounds (GC/MS) Result Qualifier RL MDL Unit Unit D Prepared	Volatile Organic Compounds (GC/MS) Result Qualifier RL MDL Unit Unit D Prepared Analyzed 11/14/23 00:40