PREPARED FOR

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

Generated 3/4/2024 11:07:53 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-199880-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

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Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 6

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Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-199880-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-199880-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Appreviation	these commonly used appreviations may or may not be present in this report.
n	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

Decision Level Concentration (Radiochemistry) DLC

Estimated Detection Limit (Dioxin) EDL 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 **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

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Case Narrative

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

Job ID: 240-199880-1 Eurofins Cleveland

Job Narrative 240-199880-1

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 2/23/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°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 U.S., Inc.

Job ID: 240-199880-1

Project/Site: Ford LTP - Off Site

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-199880-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-199880-1	TRIP BLANK_130	Water	02/21/24 00:00	02/23/24 08:00
240-199880-2	MW-88S_022124	Water	02/21/24 10:55	02/23/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc. Job ID: 240-199880-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_130

Lab Sample ID: 240-199880-1

No Detections.

Client Sample ID: MW-88S_022124 Lab Sample ID: 240-199880-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-199880-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_130

Lab Sample ID: 240-199880-1 Date Collected: 02/21/24 00:00

Matrix: Water

Date Received: 02/23/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/27/24 21:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/27/24 21:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 21:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/27/24 21:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 21:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/27/24 21:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137			-		02/27/24 21:42	1
4-Bromofluorobenzene (Surr)	94		56 ₋ 136					02/27/24 21:42	1
Toluene-d8 (Surr)	98		78 - 122					02/27/24 21:42	1
Dibromofluoromethane (Surr)	91		73 - 120					02/27/24 21:42	1

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-199880-1

Project/Site: Ford LTP - Off Site

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-88S_022124

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

94

101

Date Collected: 02/21/24 10:55
Date Received: 02/23/24 08:00

Lab Sample ID: 240-199880-2

02/28/24 01:52

02/28/24 01:52

Matrix: Water

Method: SW846 8260D SIM - V	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			02/29/24 20:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		02/29/24 20:32	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/28/24 01:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/28/24 01:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/28/24 01:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/28/24 01:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/28/24 01:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/28/24 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		02/28/24 01:52	1
4-Bromofluorobenzene (Surr)	91		56 ₋ 136					02/28/24 01:52	1

78 - 122

73 - 120

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Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-199880-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-199877-B-3 MS	Matrix Spike	92	112	111	92
240-199877-B-3 MSD	Matrix Spike Duplicate	95	103	95	94
240-199880-1	TRIP BLANK_130	99	94	98	91
240-199880-2	MW-88S_022124	112	91	94	101
LCS 240-604348/4	Lab Control Sample	93	102	92	93
MB 240-604348/6	Method Blank	99	98	102	91

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	
Client Sample ID	(68-127)	
Matrix Spike	121	
Matrix Spike Duplicate	111	
MW-88S_022124	106	
Lab Control Sample	121	
Method Blank	112	
	Matrix Spike Matrix Spike Duplicate MW-88S_022124 Lab Control Sample	Client Sample ID (68-127) Matrix Spike 121 Matrix Spike Duplicate 111 MW-88S_022124 106 Lab Control Sample 121

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Job ID: 240-199880-1

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

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

Lab Sample ID: MB 240-604348/6

Matrix: Water

Analysis Batch: 604348

Client Sam	ple ID:	Method	Blank
	Prep '	Type: To	tal/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			02/27/24 18:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/27/24 18:20	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 18:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/27/24 18:20	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 18:20	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/27/24 18:20	1

	MB ME	В			
Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99	62 - 137		02/27/24 18:20	1
4-Bromofluorobenzene (Surr)	98	56 - 136		02/27/24 18:20	1
Toluene-d8 (Surr)	102	78 - 122		02/27/24 18:20	1
Dibromofluoromethane (Surr)	91	73 - 120		02/27/24 18:20	1

Lab Sample ID: LCS 240-604348/4

Matrix: Water

Analysis Batch: 604348

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	25.1		ug/L	_	100	63 - 134	
cis-1,2-Dichloroethene	25.0	25.1		ug/L		100	77 - 123	
Tetrachloroethene	25.0	26.0		ug/L		104	76 - 123	
trans-1,2-Dichloroethene	25.0	26.1		ug/L		105	75 - 124	
Trichloroethene	25.0	26.6		ug/L		106	70 - 122	
Vinyl chloride	12.5	10.0		ug/L		80	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 _ 137
4-Bromofluorobenzene (Surr)	102		56 ₋ 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	93		73 - 120

Analysis Batch: 604348

Lab Sample ID: 240-199877-B-3 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	28.1		ug/L		112	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	25.7		ug/L		103	66 - 128	
Tetrachloroethene	1.0	U	25.0	27.9		ug/L		112	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	24.1		ug/L		96	56 - 136	
Trichloroethene	1.0	U	25.0	25.7		ug/L		103	61 - 124	
Vinyl chloride	1.0	U	12.5	10.1		ug/L		81	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		62 - 137
4-Bromofluorobenzene (Surr)	112		56 - 136
Toluene-d8 (Surr)	111		78 - 122

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Client: Arcadis U.S., Inc. Job ID: 240-199880-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water

Analysis Batch: 604348

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 92 73 - 120

Lab Sample ID: 240-199877-B-3 MSD

Lab Sample ID: 240-199877-B-3 MS

Matrix: Water

Analysis Batch: 604348

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	1.0	U	25.0	23.0		ug/L		92	56 - 135	20	26
cis-1,2-Dichloroethene	1.0	U	25.0	24.4		ug/L		98	66 - 128	5	14
Tetrachloroethene	1.0	U	25.0	24.1		ug/L		96	62 - 131	15	20
trans-1,2-Dichloroethene	1.0	U	25.0	24.8		ug/L		99	56 - 136	3	15
Trichloroethene	1.0	U	25.0	24.6		ug/L		98	61 - 124	4	15
Vinyl chloride	1.0	U	12.5	8.63		ug/L		69	43 - 157	16	24

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 95 62 - 137 103 4-Bromofluorobenzene (Surr) 56 - 136 Toluene-d8 (Surr) 95 78 - 122 Dibromofluoromethane (Surr) 94 73 - 120

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

Lab Sample ID: MB 240-604616/5

Matrix: Water

Analysis Batch: 604616

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

Client Sample ID: Lab Control Sample

MR MR Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 02/29/24 15:01

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 112 68 - 127 02/29/24 15:01

Lab Sample ID: LCS 240-604616/6

Matrix: Water

Analysis Batch: 604616

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 10.0 9.93 ug/L 99 75 - 121

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 121

Dil Fac

Prep Type: Total/NA

QC Sample Results

Client: Arcadis U.S., Inc.

Job ID: 240-199880-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-199877-E-3 MS

Matrix: Water

Analysis Batch: 604616

MS MS

 Surrogate
 %Recovery
 Qualifier
 Limits

 1,2-Dichloroethane-d4 (Surr)
 121
 68 - 127

Lab Sample ID: 240-199877-E-3 MSD

Matrix: Water

Analysis Batch: 604616

MSD MSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 1,2-Dichloroethane-d4 (Surr)
 111
 68 - 127

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

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QC Association Summary

Client: Arcadis U.S., Inc. Job ID: 240-199880-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 604348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
240-199880-1	TRIP BLANK_130	Total/NA	Water	8260D	
240-199880-2	MW-88S_022124	Total/NA	Water	8260D	
MB 240-604348/6	Method Blank	Total/NA	Water	8260D	
LCS 240-604348/4	Lab Control Sample	Total/NA	Water	8260D	
240-199877-B-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-199877-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 604616

Lab Sample ID 240-199880-2	Client Sample ID MW-88S_022124	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-604616/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-604616/6	Lab Control Sample	Total/NA	Water	8260D SIM	
240-199877-E-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-199877-E-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-199880-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_130

Lab Sample ID: 240-199880-1 Date Collected: 02/21/24 00:00

Matrix: Water

Date Received: 02/23/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	604348	CDG	EET CLE	02/27/24 21:42

Client Sample ID: MW-88S_022124 Lab Sample ID: 240-199880-2

Date Collected: 02/21/24 10:55 Matrix: Water

Date Received: 02/23/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	604348	CDG	EET CLE	02/28/24 01:52
Total/NA	Analysis	8260D SIM		1	604616	MDH	EET CLE	02/29/24 20:32

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc. Job ID: 240-199880-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24 *
Illinois	NELAP	200004	07-31-24
lowa	State	421	06-01-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-01-24
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

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

Chain of Custody Record

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

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THE LEA	DER II	ENV	I POR	MENT	AL TES	TING

Client Contact	Regulat	tory program:	:		- DV	٧		NF	PDES		-	RCF	RA	-	Oth	er											
Company Name: Arcadis	Client Project I	Manager: Kris	H Inek	ev			Sit	• Co	ntact:	Chr	ristin :	2 W e	over.				Lab C	ontac	t: MII	e D el	M on ic	0					TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500													- , c.													519	
City/State/Zip: Novi, MI, 48377	Telephone: 248	3-994-2240					Tei	Teleph one: 248-994-2240					Telephone: 330-497-9396								1 of 1 COCs						
	Em all: kristoff	er.hinskey@ar	c2dl5.	com				Analysis Turnaround Time					Analyses									For lab use only					
Phone: 248-994-2240	Sampler Name						TA	A T if different from below													Walk-in client						
Project Name: Ford LTP Off-Site	May	yam t	tai	na	M			10 c		1	3 we 2 we		-														Lab sampling
Project Number: 301 67538,402,04	Method of Ship						\neg		,	Ε	I we			î	ပ္			ဓ္က				SIM					
PO # 30167538,402.04	Shipping/Traci	dng No:								-	l da	-		mple (Y/N)	Grab		99	82 600			82 60D	009					Job/SDG Na
	1	Matrix						O	ontaine	ers &	Prex	rvati	YES	를	/ D=	2600	E 82	DCE			api.	e 82					
Sample I dentification	Sample Date	Sample Time	-3	Адиюня	Sediment	Other:	H2504	HNO3	HCI	NaOH	ZnAd	Uspres	Other:	Filtered Sa	Composite=C/Grab=G	1,1-DCE 8260D	as-1,2-DCE 82600	Trans-1,2-DCE	PCE 82 60D	TCE 8260D	Vinyl Chloride	1,4-Dioxane 82600 SIM					Sample Specific Notes / Special Instructions:
	Sample vale	oampie time			0, 0,	+	+	+	-	-	N Z		Ť										_				4 T Dii
TRIP BLANK_ 130			Ш	1					1					N	G	Х	X	X	Х	Х	X						1 Trip Blank
MW-88S_022124	2/21/24	1022		χ					6					1/2	9	Χ	X	X	X	X	X	X					3 VOAs for 8260D 3 VOAs for 8260D SIM
*											Γ																
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						240-	19988	0 C	hain	of C	Custo	ody															- CANI
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Special Instructions/QC Requirements & Comments: Sample Address: Submit all results through Cadena at jtomalia@cadenac Level IV Reporting requested.	o.com. Cadena i	WE203631	2	4	96	5		N	ad	Si	NO	rt	n	<	54	-	(1	35	24								
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Eurofins – Cleveland Sample Receipt Form/Narrative Barberton Facility Cooler unpacked by
Cooler Received on 2-22 24 Opened on 2-23 24 Show helle Holdet FedFix 1st Grd Exp UPS FASC Waypoint) Client Drop Off Eurofins Courser Other
Drop-off]
Il used Bubble Wrap Foam Pastic Bag Foam Pastic Bag Foam Pastic Bag Foam Pastic Bag
IR GUN# 22 (CFO, (5°C) Observed Cooler Temp 16°C Cc
seals on the outside of the cooler(s)? If Yes Quantity Yes No the outside of the cooler(s) signed & dated? Yes No
-Were tamper/custody seals intact and uncompromised? 3 Shippers' packing slip attached to the cooler(s)? 4 Did custody papers accompany the sample(s)? Yes No Oil and Grease Oil and Grease
Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC?
ntainers@N), ar
11 yes, Questions 13-17 have been checked at the originating laboratory 13 Were all preserved sample(s) at the correct pH upon receipt? 14 Were VOAs on the COC? 15 Yes No (NA) pH Strip Loff HC316719 16 Were VOAs on the COC?
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 #2 13 20 (Ces) No 17 Was a LL Hg or Me Hg trip blank present?
Contacted PM Date by via Verbal Voice Mail Other
Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
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
Time preserved Preservative(s) added/Lot number(s) were ruttner preserved in the laboratory
VOA Sample Preservation - Date/Time VOAs Frozen.

DATA VERIFICATION REPORT



March 04, 2024

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

CADENA project ID: E203631

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

Project number: 30167538.402.04

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

Laboratory submittal: 199880-1

Sample date: 2024-02-21

Report received by CADENA: 2024-03-04

Initial Data Verification completed by CADENA: 2024-03-04

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

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

There were no significant QC anomalies or exceptions to report.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 199880-1

		Sample Name:	TRIP BLA	NK_130			MW-88S	_022124		
		Lab Sample ID:	2401998	801			2401998	8802		
		Sample Date:	2/21/202	24			2/21/202	24		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260	<u>DSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-199880-1

CADENA Verification Report: 2024-03-04

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53224R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-199880-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Ana	lysis
Sample ID	Labib	IVIALITA	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_130	240-199880-1	Water	02/21/2024		Х	
MW-88S_022124	240-199880-2	Water	02/21/2024		Х	Х

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		Х		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		X		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bindu Sree M B

SIGNATURE: BAShims

DATE: March 14, 2024

PEER REVIEW: Andrew Korycinski

DATE: March 18, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record



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City/State/Zip: Novi, MI, 48377																	110. 3	30-47								1 of 1	COCs	コ
Phone: 248-994-2240	Em all: kristoff	er.hin skey@ar	c2d15.	сош			An	alysis	Tuer	narou	nd 11m	ie				T			A	nalys	es	Ī	T	\top	$\overline{}$	For lab use only		
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-199880-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_130

Lab Sample ID: 240-199880-1 Date Collected: 02/21/24 00:00 **Matrix: Water**

Date Received: 02/23/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/27/24 21:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/27/24 21:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 21:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/27/24 21:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/27/24 21:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/27/24 21:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137					02/27/24 21:42	1
4-Bromofluorobenzene (Surr)	94		56 - 136					02/27/24 21:42	1
Toluene-d8 (Surr)	98		78 - 122					02/27/24 21:42	1
Dibromofluoromethane (Surr)	91		73 - 120					02/27/24 21:42	1

Client Sample ID: MW-88S_022124

Date Collected: 02/21/24 10:55

Date Received: 02/23/24 08:00

Method: SW846 8260D SIN	/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			02/29/24 20:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		02/29/24 20:32	1

Method: SW846 8260D - Vo	olatile Organic	Compoun	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/28/24 01:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/28/24 01:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/28/24 01:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/28/24 01:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/28/24 01:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/28/24 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1 2-Dichloroethane-d4 (Surr)	112		62 137			-		02/28/24 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	112		62 - 137		02/28/24 01:52	1	
4-Bromofluorobenzene (Surr)	91		56 - 136		02/28/24 01:52	1	
Toluene-d8 (Surr)	94		78 - 122		02/28/24 01:52	1	
Dibromofluoromethane (Surr)	101		73 - 120		02/28/24 01:52	1	

Lab Sample ID: 240-199880-2

Matrix: Water