ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 3/12/2024 11:44:40 PM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-200380-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

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Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-200380-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-200380-1

Project/Site: Ford LTP - Off Site

Qualifiers

G	_	/ R /	10	1/		Λ
G	U	W	J	v	u	н

Qualifier

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

Qualifier Description

Glossarv

C.000	
Abbreviation	These commonly used abbreviations 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

DLC Decision Level Concentration (Radiochemistry) EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML 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) 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: 240-200380-1 Eurofins Cleveland

Job Narrative 240-200380-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 3/2/2024 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 2.4°C and 3.8°C.

GC/MS VOA

Method 8260D: The MS/MSD for batch 240-605522 was not analyzed due to an instrument malfunction

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

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Job ID: 240-200380-1

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Method Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200380-1

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: 240-200380-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-200380-1	TRIP BLANK_57	Water	02/29/24 00:00	03/02/24 08:00
240-200380-2	MW-150S_022924	Water	02/29/24 12:14	03/02/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc. Job ID: 240-200380-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_57 Lab Sample ID: 240-200380-1

No Detections.

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Vinyl chloride	0.45 J	1.0	0.45 ug/L		8260D	Total/NA

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200380-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_57

Lab Sample ID: 240-200380-1 Date Collected: 02/29/24 00:00

Matrix: Water

Date Received: 03/02/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/08/24 19:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/24 19:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 19:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/24 19:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 19:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/24 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			_		03/08/24 19:27	1
4-Bromofluorobenzene (Surr)	95		56 ₋ 136					03/08/24 19:27	1
Toluene-d8 (Surr)	99		78 - 122					03/08/24 19:27	1
Dibromofluoromethane (Surr)	94		73 - 120					03/08/24 19:27	1

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3/12/2024

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200380-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-150S_022924

Date Collected: 02/29/24 12:14

Lab Sample ID: 240-200380-2 **Matrix: Water**

Date Received: 03/02/24 08:00

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			03/08/24 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127					03/08/24 17:19	1
Method: SW846 8260D - Volat	ile Organic Comp	ounds by C	SC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/09/24 00:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/09/24 00:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/09/24 00:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/09/24 00:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/09/24 00:03	1
Vinyl chloride	0.45	J	1.0	0.45	ug/L			03/09/24 00:03	1
Surrogate	%Recovery	Qualifier	Limits			_	Prepared	Analyzed	Dil Fac
4.0 Diablementhana d4.(0:)			60 407					00/00/04 00:00	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		62 - 137		03/09/24 00:03	1
4-Bromofluorobenzene (Surr)	87		56 - 136		03/09/24 00:03	1
Toluene-d8 (Surr)	94		78 - 122		03/09/24 00:03	1
Dibromofluoromethane (Surr)	95		73 - 120		03/09/24 00:03	1

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-200380-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-200380-1	TRIP BLANK_57	117	95	99	94
240-200380-2	MW-150S_022924	114	87	94	95
LCS 240-605522/5	Lab Control Sample	103	99	98	102
MB 240-605522/8	Method Blank	114	87	96	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	
Lab Sample ID	Client Sample ID	(68-127)	
240-200378-B-2 MS	Matrix Spike	112	
240-200378-B-2 MSD	Matrix Spike Duplicate	123	
240-200380-2	MW-150S_022924	106	
LCS 240-605411/5	Lab Control Sample	110	
MB 240-605411/7	Method Blank	111	

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

Client: Arcadis U.S., Inc. Job ID: 240-200380-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-605522/8

Matrix: Water

Analysis Batch: 605522

Client Sample ID: Meth	od Blank
Prep Type:	Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/08/24 19:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/24 19:02	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 19:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/24 19:02	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 19:02	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/24 19:02	1

MB MB

Surrogate	%Recovery (Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114	62 - 137		03/08/24 19:02	1
4-Bromofluorobenzene (Surr)	87	56 - 136		03/08/24 19:02	1
Toluene-d8 (Surr)	96	78 - 122		03/08/24 19:02	1
Dibromofluoromethane (Surr)	91	73 - 120		03/08/24 19:02	1

Lab Sample ID: LCS 240-605522/5

Matrix: Water

Analysis Batch: 605522

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	26.5		ug/L		106	63 - 134	
cis-1,2-Dichloroethene	25.0	26.5		ug/L		106	77 - 123	
Tetrachloroethene	25.0	25.6		ug/L		102	76 - 123	
trans-1,2-Dichloroethene	25.0	27.9		ug/L		112	75 - 124	
Trichloroethene	25.0	25.8		ug/L		103	70 - 122	
Vinyl chloride	12.5	12.1		ug/L		97	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

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

Lab Sample ID: MB 240-605411/7 Client Sample ID: Method Blank Matrix: Water

Matrix: water								Prep Type:	iotai/NA
Analysis Batch: 605411									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/08/24 11:22	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		68 - 127			-		03/08/24 11:22	1

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Client: Arcadis U.S., Inc. Job ID: 240-200380-1

Project/Site: Ford LTP - Off Site

1,2-Dichloroethane-d4 (Surr)

Lab Sample ID: LCS 240-605411/5

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

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water Analysis Batch: 605411

Spike LCS LCS %Rec Result Qualifier Analyte Added Unit %Rec Limits 1,4-Dioxane 10.0 8.45 ug/L 84 75 - 121

LCS LCS Surrogate %Recovery Qualifier Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 110

Lab Sample ID: 240-200378-B-2 MS Client Sample ID: Matrix Spike

Matrix: Water Prep Type: Total/NA

Analysis Batch: 605411 Sample Sample Spike MS MS %Rec

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 2.0 U 10.0 8.46 ug/L 85 20 - 180 MS MS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 112

123

Lab Sample ID: 240-200378-B-2 MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Water Prep Type: Total/NA Analysis Batch: 605411

RPD Sample Sample Spike MSD MSD %Rec Qualifier Added Qualifier RPD Analyte Result Result Unit %Rec Limits Limit 1,4-Dioxane 2.0 U 10.0 9.54 ug/L 95 20 - 180 12 20

MSD MSD Surrogate %Recovery Qualifier Limits

68 - 127

QC Association Summary

Client: Arcadis U.S., Inc. Job ID: 240-200380-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 605411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200380-2	MW-150S_022924	Total/NA	Water	8260D SIM	
MB 240-605411/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-605411/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-200378-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-200378-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 605522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batc	h
240-200380-1	TRIP BLANK_57	Total/NA	Water	8260D	_
240-200380-2	MW-150S_022924	Total/NA	Water	8260D	
MB 240-605522/8	Method Blank	Total/NA	Water	8260D	
LCS 240-605522/5	Lab Control Sample	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-200380-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_57

Lab Sample ID: 240-200380-1 Date Collected: 02/29/24 00:00

Matrix: Water

Date Received: 03/02/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	605522	CDG	EET CLE	03/08/24 19:27

Client Sample ID: MW-150S_022924 Lab Sample ID: 240-200380-2

Date Collected: 02/29/24 12:14 Matrix: Water

Date Received: 03/02/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	605522	CDG	EET CLE	03/09/24 00:03
Total/NA	Analysis	8260D SIM		1	605411	MDH	EET CLE	03/08/24 17:19

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: 240-200380-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Cleveland

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

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

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

MICHIGAN 190

Chain of Custody Record

190 Tes	TestAmerica Laboratory location: Brighton 10448 Cite Regulatory program: Dw			Citation	Dilve,														THE LEADER	IN ENVIRONMENTAL T			
Client Contact	Regulat	ory program:		ſ	DW		- NP	DES		F	CRA		Oth	er								TestAn	nerica Laboratorie
ompany Name: Arcaus	Cilent Project	danager: Krisi	H Insk	ey	-	s	lte Co	ntact:	Chr	istin a '	N eaver	_		-	Lab C	ont a ct:	Mike	D el M	l onico			 COC N	
ddress: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240					eleph	one: 2	48-9	94-224	0			-	Teleph	one: 3	30-497	-939	ó			 -	
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hone: 248-994-2240	Em all: kristoff	er.hinskey@ar	cadls.	com			-	117515		21 (4)	2 11.00	_						7	31,30				
roject Name: Ford LTP Off-Site	Sampler Name			1	210	Т	ΑΤifd	illerent l		below 3 wee	<u>ـــا</u>	-										Walk-in	chient
roject Number: 301 67538,402,04			102	tiga	ry i		10 c	ay		2 week										_		Lab san	pling
	Method of Ship								Γ	1 week		2	P=G			82 60D			8	SIS			
O # 3016753&402.04	Shipping/Track	ing No:								1 day		The CA	C/Gr	98	82600	R 8			e 826	8260		Job/SD	3 Nα
Sample I dentification	Sample Date	Sample Time	ηįγ	Aquioni	A CO	Other:	H2SO4 HNO3			Present No M	Other:	Filtered Sample (Y/N)	Composite=C/Grab=G	1,1-DCE 8260D	as-1,2-DCE 82600	Trans-1,2-DCE	PCE 82 60D	1 CE 82800	Vinyl Chloride 82 60D	1,4-Dioxane 8260D SIM			ample Specific Notes Special Instructions:
TRIP BLANK_57				1				1				N	G	Х	Х	X	X .	X	Х			1 T	rip Blank
MW-150S-022924	2/29/24	1214		6				6				N	6	X	X	X	× :	<	X	X			OAs for 8260D OAs for 8260D S
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Possible Hazard I dentification Non-Hazard Flammable Skin Irri	tant Poiso	on B	Unkr	own			Sam			al (A f	e may t	e asses Dispo			es are		hive F		201 0		nihs		
pecial instructions/QC Requirements & Comments: imple Address: 34380 Beacon submit all results through Cadena at Jomalia@cadenac																							
oubmit all results through Cadena at jtomalia@cadenac evel IV Reporting requested.																							
elinquished by.	Company: A(C)	odis		212	me: 1/24	1	73	4		eived b	Nov	i (c	old	Sit	roix			ompa	1	CCH	dis	Dale/Ti 2/29	124 173
elinquisted by:	Company: Company:	edis		31	112	4 1	≤ δ	Ú	a	e yed b	HZ	_	-				C	ompa [/]	TA			Dale Ti	24 1500
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Barberton.F Eurofins - Cleveland Sample Receipt Form/Narrative

Cooler Received on Receipt After-hours Drop-off Date/Time l⁴ Grd Exp

Eurofins Cooler #

Packing material used.

Embble Wrad

Foam Box

Chent Cooler

Opened on Client Drop Off

Site Name

Login#

3/12/2024

Cogler unpacked

Eurofins Couner

Other

Storage Location

Вох Other

Other

Foam Plastic Bag None

Dry Ice Water None

Cooler temperature upon receipt COOLANT Wetlog 3 Observed Cooler Temp.

Blue Ice ee Multiple Cooler Form

°C Corrected Cooler Temp

o Z

Z

Tests that are not checked for pH by

Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -Were taniper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Were the seals on the outside of the cooler(s) signed & dated?

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Were tamper/custody seals intact and uncompromised?

K)

No NA

Receiving:

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S_O No

> Toc **VOAs** Oil and Grease

Shippers' packing slip attached to the cooler(s)?

6 5 .4 5 Did custody papers accompany the sample(s)?

Were the custody papers reinquished & signed in the appropriate place?

Was/were the person(s) who collected the samples clearly identified on the COC?

Did all bottles arrive in good condition (Unbroken)?

Could all bottle labels (ID/Date/Time) be reconciled with the COC?

⋛ 8 Ÿ.

For each sample, does the COC specify preservatives (YN), # of containers (NN), and sample type of grab/comp(VN)? Were correct bottle(s) used for the test(s) indicated? No. Z,

12 Sufficient quantity received to perform indicated analyses?

Are these work share samples and all listed on the COC?

Were all preserved sample(s) at the correct pH upon receipt? If yes, Questions 13 17 have been checked at the originating laboratory

Were VOAs on the COC?

13 14 15 17 Were air bubbles >6 mm in any VOA vials?

Larger than this

₹**(3**)

₹.

N. CAN

pH Strip Lot# HC316719

NA B

Was a LL Hg or Me Hg trip blank present?

Was a VOA trip blank present in the cooler(s)? Trip Blank Lot#

Ą vıa Verbal Voice Maıl Other

... CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Concerning

Contacted PM

additional next page

Samples processed by

SAMPLE CONDITION

Sample(s)

were received after the recommended holding time had expired

were received in;a broken container

Sample(s) Sample(s)

were received with bubble >6 mm in diameter (Notify PM)

SAMPLE PRESERVATION

Sample(s) _____ Time preserved.

VOA Sample Preservation Date/Tupe VOAs Frozen.

Preservative(s) added/Lot number(s)

were further preserved in the laboratory

F7I-NC-099

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Walter Wester Dyke			7 CV7 C.	lox Other	EC 0343
Welco she ice Mik				Box Other	K Clent
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Walks Sive to Orto	20.2	V.X	IN GUNO,	l Box Other	
(Circle) Welke Blueke Dyke	Temp °C	(Circle) Temp °C Temp °C	(Circle)	Cooler Description (Circle)	Cooler
Coolan	Corrected		,		

RI-NC-099 Cooler Receipt Form Page 2 - Multiple Coden

DATA VERIFICATION REPORT



March 13, 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: 200380-1 Sample date: 2024-02-29

Report received by CADENA: 2024-03-12

Initial Data Verification completed by CADENA: 2024-03-13

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 605522 did not include MS/MSD data due to an instrument malfunction per laboratory submittal case narrative.

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.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

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: 200380-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2402003 2/29/202	801			MW-1503 2402003 2/29/202	8802	4	
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC OSW-8260	D									
<u>0377-0200</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		0.45	1.0	ug/l	J
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 # 240-200380-1

CADENA Verification Report: 2024-03-13

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53330R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200380-1 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	Wallix	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_57	240-200380-1	Water	02/29/2024		Х	
MW-150S_022924	240-200380-2	Water	02/29/2024		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		X		Х	
6. Sample collection date		X		X	
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.

All identified compounds met the specified criteria.

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 22, 2024

PEER REVIEW: Andrew Korycinski

DATE: April 3, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

TestAmerica

Client Contact	TestAmerica Labora	ory program:			D1			PDES			RCR			Othe	-				_			-			E LEADER IN ENVIRONMENTAL TESTING
Company Name: Arcadis	Keguiat	ory program.				•	1	1003			KCK			Othe	J										TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500	Client Project N	danager: Kris	H lasi	key			Site C	ontact	: Chr	ristin a	We	av er	_			Lab C	onta	t: MII	(e D el	IM onle	0				COC Na
	Telephone: 248	-994-2240					Telepi	one: 2	248-9	94-22	40					Telep	h on e:	330-4	97-93	396					
City/State/Zip: Novi, MI, 48377	E- alla limba add	an bland au San	41-				A	alysis	Teri	200	nd Ti	lme							Ā	naly	ses			_	1 of 1 COCs For lab use only
Phone: 248 -994- 2240	Em all: kristoff	ег ли эксуш аг	(30)	.сош				100					1												
Project Name: Ford LTP Off-Site	Sampler Name		-	11.	2.0		TATir	differen		below 3 we	eks														Walk-in client
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Project Number: 301 67538,402,04	Method of Ship	ment/Carrier:		·						1 we 2 day			î	P C			QQ			٥	SIM				
PO # 30167538.402.04	Shipping/Track	ing No:								I da			Y) aldı	C/Gra	8260D	82600	CE 82 60D			Je 82 60D	8260D				Job/SDG Na
Sample i dentification	Sample Date	Sample Time	Afr		Soliment			HCI HVOS	T				Filtered Sample (Y / N)	Composite=C/Grab=G	1,1-DCE 82	os-1,2-DCE 82600	Trans-1,2-DCE	PCE 82 60D	TCE 82600	Vinyl Chloride	1,4-Dioxane 8260D				Sample Specific Notes / Special Instructions:
TRIP BLANK_57				1		İ		1					N	G	X	Х	Х	Х	Х	Х					1 Trip Blank
MW-150S-022924	2/29/24	1214		6				6					N	6	X	X	X	×	X	X	X				3 VOAs for 8260D 3 VOAs for 8260D SIM
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Possible Hazard Identification							520	nole D	Iron	2114	fan	nay be:		ad If		les ore	ret al	ned lo		than I	moni				
Non-Hazard Flammable Sk	in Irritant Poiso	m B	Unk	nown			3			Chien		~ C						rchive				lonths			
Special Instructions/QC Requirements & Comments: Sample Address: 3:4380 Beacon Submit all results through Cadena at jtomalia@cad	denaco.com. Cadena #	E203631																							
Level IV Reporting requested. Relinguished by: Nubaur Cartingum	Company:	ndis		Date/	011	и	173	34	R ec	ei ved	bу: //	Jovi	$C_{\mathcal{C}}$	ild :	Sit)[[]	n		Com	pany:	Arco	odi5			Date/Time: 2/29/24 1734
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200380-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_57

Lab Sample ID: 240-200380-1 Date Collected: 02/29/24 00:00 **Matrix: Water**

Date Received: 03/02/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/08/24 19:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/24 19:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 19:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/24 19:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 19:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/24 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137					03/08/24 19:27	1
4-Bromofluorobenzene (Surr)	95		56 - 136					03/08/24 19:27	1
Toluene-d8 (Surr)	99		78 - 122					03/08/24 19:27	1
Dibromofluoromethane (Surr)	94		73 - 120					03/08/24 19:27	

Client Sample ID: MW-150S_022924

Date Collected: 02/29/24 12:14

Date Received: 03/02/24 08:00

Method: SW846 8260D SIM -	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			03/08/24 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		03/08/24 17:19	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			03/09/24 00:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/09/24 00:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/09/24 00:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/09/24 00:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/09/24 00:03	1
Vinyl chloride	0.45	J	1.0	0.45	ug/L			03/09/24 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1 2-Dichloroethane-d4 (Surr)	114		62 - 137			-		03/09/24 00:03	1

ı	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	114		62 - 137		03/09/24 00:03	1
ı	4-Bromofluorobenzene (Surr)	87		56 - 136		03/09/24 00:03	1
ı	Toluene-d8 (Surr)	94		78 - 122		03/09/24 00:03	1
ı	Dibromofluoromethane (Surr)	95		73 - 120		03/09/24 00:03	1

Lab Sample ID: 240-200380-2

Matrix: Water