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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 5/29/2024 7:59:02 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-204751-1

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

Generated 5/29/2024 7:59:02 AM

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

Laboratory Job ID: 240-204751-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.

Job ID: 240-204751-1

Project/Site: Ford LTP

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 U.S., Inc. Project: Ford LTP

Job ID: 240-204751-1 Eurofins Cleveland

Job Narrative 240-204751-1

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 5/18/2024 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 3.3°C.

GC/MS VOA

Method 8260D: The MS/MSD analyzed with analytical batch 240-614438 is not reported due to nor surrogate recovery in the matrix spike samples. The LCS demonstrates integrity of the system, therefore results are reported. TRIP BLANK_138 (240-204751-1) and MW-75SR_051624 (240-204751-2)

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

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204751-1

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

Job ID: 240-204751-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-204751-1	TRIP BLANK_138	Water	05/16/24 00:00	05/18/24 08:00
240-204751-2	MW-75SR_051624	Water	05/16/24 15:32	05/18/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204751-1

Client Sample ID: TRIP BLANK_138

Lab Sample ID: 240-204751-1

No Detections.

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204751-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_138

Lab Sample ID: 240-204751-1 Date Collected: 05/16/24 00:00 **Matrix: Water**

Date Received: 05/18/24 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			05/26/24 07:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/24 07:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 07:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/24 07:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 07:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/24 07:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137			-		05/26/24 07:53	1
4-Bromofluorobenzene (Surr)	92		56 ₋ 136					05/26/24 07:53	1
Toluene-d8 (Surr)	92		78 - 122					05/26/24 07:53	1
Dibromofluoromethane (Surr)	105		73 - 120					05/26/24 07:53	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204751-1

Project/Site: Ford LTP

Client Sample ID: MW-75SR_051624

Lab Sample ID: 240-204751-2 Date Collected: 05/16/24 15:32

Matrix: Water Date Received: 05/18/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/24/24 01:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 127			-		05/24/24 01:11	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/26/24 10:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/24 10:23	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 10:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/24 10:23	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 10:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/24 10:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		05/26/24 10:23	1
4-Bromofluorobenzene (Surr)	92		56 ₋ 136					05/26/24 10:23	1
Toluene-d8 (Surr)	91		78 - 122					05/26/24 10:23	1
Dibromofluoromethane (Surr)	110		73 - 120					05/26/24 10:23	1

Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 240-204751-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-204751-1	TRIP BLANK_138	108	92	92	105
240-204751-2	MW-75SR_051624	113	92	91	110
LCS 240-614438/5	Lab Control Sample	100	102	99	97
MB 240-614438/8	Method Blank	107	94	94	103

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)	
240-204751-2	MW-75SR_051624	97	
240-204757-E-3 MS	Matrix Spike	98	
240-204757-E-3 MSD	Matrix Spike Duplicate	96	
LCS 240-614186/3	Lab Control Sample	93	
MB 240-614186/5	Method Blank	93	

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

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Client: Arcadis U.S., Inc. Job ID: 240-204751-1 Project/Site: Ford LTP

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

Lab Sample	D: MB	240-614438/8

Matrix: Water

Analysis Batch: 614438

Client	Sample	ID:	Method	Blank
	D.	an 1	Denoi To	to I/NI A

Prep Type: Total/NA

	INID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/26/24 07:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/24 07:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 07:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/24 07:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 07:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/24 07:27	1

	MB MB				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107	62 - 137		05/26/24 07:27	1
4-Bromofluorobenzene (Surr)	94	56 ₋ 136		05/26/24 07:27	1
Toluene-d8 (Surr)	94	78 - 122		05/26/24 07:27	1
Dibromofluoromethane (Surr)	103	73 - 120		05/26/24 07:27	1

Lab Sample ID: LCS 240-614438/5

Matrix: Water

Analysis Batch: 614438

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	23.3		ug/L		93	63 - 134	
cis-1,2-Dichloroethene	25.0	22.1		ug/L		89	77 - 123	
Tetrachloroethene	25.0	22.4		ug/L		90	76 - 123	
trans-1,2-Dichloroethene	25.0	21.0		ug/L		84	75 - 124	
Trichloroethene	25.0	24.5		ug/L		98	70 - 122	
Vinyl chloride	12.5	10.9		ug/L		87	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	99		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

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

Lab Sample ID: MB 240-614186/5	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA

								op y po.	
Analysis Batch: 614186									
	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/24/24 00:24	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		68 - 127			·		05/24/24 00:24	1

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5/29/2024

QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204751-1

Project/Site: Ford LTP

Client Sample ID: Lab Control Sample

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

Lab Sample ID: LCS 240-614186/3

Matrix: Water

Analysis Batch: 614186

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	10.0	9.38		ug/L		94	75 - 121	

LCS LCS

2.0 U

Surrogate %Recovery Qualifier Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 93

Lab Sample ID: 240-204757-E-3 MS

Matrix: Water

1,4-Dioxane

Analysis Batch: 614186					
	Sample Sample	Spike	MS MS		%Rec
Δnalvte	Result Qualifier	Δdded	Result Qualifier Unit	D %Rec	l imite

9.53

ug/L

10.0

MS MS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 98

Lab Sample ID: 240-204757-E-3 MSD

Matrix: Water

Analysis Batch: 614186

	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	9.76		ug/L		98	20 - 180	2	20

MSD MSD

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 96 68 - 127

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

20 - 180

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

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QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204751-1

GC/MS VOA

Analysis Batch: 614186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204751-2	MW-75SR_051624	Total/NA	Water	8260D SIM	
MB 240-614186/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-614186/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-204757-E-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-204757-E-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 614438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204751-1	TRIP BLANK_138	Total/NA	Water	8260D	
240-204751-2	MW-75SR_051624	Total/NA	Water	8260D	
MB 240-614438/8	Method Blank	Total/NA	Water	8260D	
LCS 240-614438/5	Lab Control Sample	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-204751-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_138

Lab Sample ID: 240-204751-1 Date Collected: 05/16/24 00:00

Matrix: Water

Date Received: 05/18/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	614438	CS	EET CLE	05/26/24 07:53

Client Sample ID: MW-75SR_051624 Lab Sample ID: 240-204751-2

Date Collected: 05/16/24 15:32 Matrix: Water

Date Received: 05/18/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	614438	CS	EET CLE	05/26/24 10:23
Total/NA	Analysis	8260D SIM		1	614186	MDH	EET CLE	05/24/24 01:11

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.

Project/Site: Ford LTP

Job ID: 240-204751-1

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	02-28-25	
Georgia	State	4062	02-27-25	
Illinois	NELAP	200004	07-31-24	
lowa	State	421	06-01-25	
Kentucky (UST)	State	112225	02-27-25	
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	04-02-25	
Ohio VAP	State	ORELAP 4062	02-27-25	
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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MICHIGAN 100 TestAmerica Laboratory Id

Chain of Custody Record

TestAmerico

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

Client Contact	l Regular	tory program:	_		DW	,	_	NPD	ES		⊢ R	CRA		┌ Ot	her [_	•				
Company Name: Arcadis		, FB.			-																				τ	TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500	Client Project	Manager: Kris	Hinsk	y			Site	Cont	act: C	Chr	istina V	Veave	r			Lab	Conta	ct: Mil	e Del	Monic)				C	COC No:
	Telephone: 248	994-2240		-			Tele	phon	e: 248	8-99	94-2240					Tele	phone	330-4	97-93	96						
City/State/Zip: Novi, MI, 48377	Email: kristoff	er.hinskey@ar	cadis.c	om			,	Analy	vsis T	urn	around	Time				L			A	nalys	es				E	1 of 1 COCs for lab use only
Phone: 248-994-2240				<u> </u>																						
Project Name: Ford LTP	Sampler Name	1 0)0000	10	Coci	Line) ' \	TAT	if diff	crent fro		elow 3 week	s	\dashv												٧	Valk-in client
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Sample Identification	Sample Date	Sample Time	Air	Aqueous	Solid	Other:	H2SO4	HNO3	HCI	NAOH	ZaAc/ NaOH	Other:		Filtered :	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					Sample Specific Notes / Special Instructions:
TRIP BLANK_ 139				1					1				-	NG		+	+-	X	X	X	÷		-	_	+	4 Trin Dinnis
			\vdash	-	 		\vdash		'	_		+-		-	+-	 ^		-		\vdash			_		-	1 Trip Blank
MW-755R-051624	5/16/24	1532		0					0					NG	X	X	X	X	X	Χ	X				\perp	3 VOAs for 8260D 3 VOAs for 8260D SIM
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Special Instructions/QC Requirements & Comments:	en Row																									
Submit all results through Cadena at jtomalia@cadenaco.c Level IV Reporting requested.	om. Cadena #E	203728																								
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VOA Sample Preservation Date/Time VOAs Frozen.
Sample(s)were further preserved in the laboratory
20 SAMPLE PRESERVATION
19 SAMPLE CONDITION Sample(s) were received after the recommended holding time had expired. Sample(s) were received in a broken container Sample(s) were received with bubble >6 mm in diameter (Notify PM)
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Concerning
Contacted PM Date byvia Verbal Voice Mail Other
If yes, Questions 13 17 have been checked at the originating laboratory Were all preserved sample(s) at the correct pH upon receipt? Were VOAs on the COC? Were air bubbles >6 mm in any VOA vials? Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #00415011 Yes Was a LL Hg or Me Hg trip blank present?
the COC? N), # of containers (YN), an
Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC?
Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? -Were tamper/custody seals intact and uncompromised? Yes No NA Receiving
(CF 1) · O · C) Observed Cooler Temp. 3
ox Chent Cooler Box Foam Plastic Bag N
Receipt After-hours. Drop-off Date/Time Client Drop Off Eurotins Courier Other Storage Location
05118184 Opened on 05118184
Client 1940 Cooler unpacked by:
Eurofins - Cleveland Sample Receipt Form/Narrative Login#

Page 18 of 19

5/18/2024

	voa viai 40mi - Hydrochioric Acid	240-204/51-F-2	MW-75SK_051624
	Voa Vial 40ml - Hydrochloric Acid	240-204751-E-2	MW-75SR_051624
The state of the s	Voa Vial 40ml - Hydrochloric Acid	240-204751-D-2	MW-75SR_051624
	Voa Vial 40ml - Hydrochloric Acid	240-204751-C-2	MW-75SR_051624
teration and the second	Voa Vial 40ml - Hydrochloric Acid	240-204751-B-2	MW-75SR_051624
	Voa Vıal 40ml - Hydrochloric Acid	240-204751-A-2	MW-75SR_051624
	Voa Vial 40ml - Hydrochloric Acid	240-204751-A-1	TRIP BLANK_138
Container Preservation Preservation pH Temp Added Lot Number	Container Type	Lab ID	Client Sample ID
			Temperature readings

Page 1 of 1

DATA VERIFICATION REPORT



May 29, 2024

Megan Meckley Arcadis 28550 Cabot Drive Suite 500 Novi, MI US 48377

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil

Project number: 30206169.401.03

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

Laboratory submittal: 204751-1 Sample date: 2024-05-16

Report received by CADENA: 2024-05-29

Initial Data Verification completed by CADENA: 2024-05-29

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: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 204751-1

		Sample Name: Lab Sample ID: Sample Date:		7511 24			MW-758 240204 5/16/20	الحائط		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC OSW-826	<u>0D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-826	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-204751-1

CADENA Verification Report: 2024-05-29

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 54308R Review Level: Tier III Project: 30206169.401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-204751-1 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	Barant Sample	Ana	lysis
Sample ID	Lab ID	Wallix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_138	240-204751-1	Water	05/16/2024		Х	
MW-75SR_051624	240-204751-2	Water	05/16/2024		X	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	Perfo	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: BASHIME

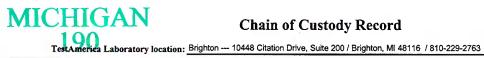
DATE: June 21, 2024

PEER REVIEW: Andrew Korycinski

DATE: June 30, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS





Client Contact	Regulat	ory program:			DW			NPDE	s	1	┌ R	CRA	Γ-	Oth	er [_							
Company Name: Areadis							In.																	TestAmerica Laboratories,				
Address: 28550 Cabot Drive, Suite 500	Client Project	Manager: Kris	Hinsk	ey			Site	Conta	ct: Cl	hrist	tina V	eaver/				Lab (Conta	ct: Mi	ce Del	Monic	0				COC No:			
C: 10:	Telephone: 248	-994-2240					Telep	bone:	248-	994	-2240					Telep	hone:	330-4	0-497-9396									
City/State/Zip: Novi, MI, 48377	Email: kristoff	er.hinskey@ar	cadis.	com			- /	nalys	is Tu	LUSI	round	Time				L			A	nalys	es				1 of 1 COCs For lab use only			
Phone: 248-994-2240					TAT if different from below												T			WE IN								
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204751-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_138

Lab Sample ID: 240-204751-1 Date Collected: 05/16/24 00:00 **Matrix: Water**

Date Received: 05/18/24 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			05/26/24 07:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/24 07:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 07:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/24 07:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 07:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/24 07:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137			-		05/26/24 07:53	1
4-Bromofluorobenzene (Surr)	92		56 ₋ 136					05/26/24 07:53	1
Toluene-d8 (Surr)	92		78 - 122					05/26/24 07:53	1
Dibromofluoromethane (Surr)	105		73 - 120					05/26/24 07:53	1

Client Sample ID: MW-75SR_051624

Date Collected: 05/16/24 15:32

Date Received: 05/18/24 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			05/24/24 01:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)	97		68 - 127			-		05/24/24 01:11	1

1,4-Bloxane	2.0	J	2.0	0.00	ug/L			00/24/24 01.11	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 127			-		05/24/24 01:11	1
– Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	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			05/26/24 10:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/24 10:23	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 10:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/24 10:23	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/24 10:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/24 10:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		62 - 137			_		05/26/24 10:23	1
4-Bromofluorobenzene (Surr)	92		56 ₋ 136					05/26/24 10:23	1
Toluene-d8 (Surr)	91		78 - 122					05/26/24 10:23	1
Dibromofluoromethane (Surr)	110		73 - 120					05/26/24 10:23	1

Lab Sample ID: 240-204751-2

Matrix: Water