PREPARED FOR

Attn: Ms. Megan Meckley Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 8/8/2024 10:05:54 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-208686-1

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

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

Laboratory Job ID: 240-208686-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.

Job ID: 240-208686-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	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					

CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid
DEP Duplicate Error Ratio (no

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: 240-208686-1 Eurofins Cleveland

Job Narrative 240-208686-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 8/2/2024 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 3 coolers at receipt time were 0.6°C, 1.1°C and 1.7°C.

GC/MS VOA

Method 8260D: The matrix spike/matrix spike duplicate (MS/MSD) for samples TRIP BLANK_125 (240-208686-1) and MW-173S_073124 (240-208686-2) was not reported, because the analyte list for these samples did not match the analyte list for the MS/MSD parent sample.

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: 240-208686-1

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208686-1

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: 240-208686-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-208686-1	TRIP BLANK_125	Water	07/31/24 00:00	08/02/24 08:00
240-208686-2	MW-173S 073124	Water	07/31/24 13:00	08/02/24 08:00

Detection Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208686-1

Client Sample ID: TRIP BLANK_125

No Detections.

Lab Sample ID: 240-208686-1

Client Sample ID: MW-173S_073124 Lab Sample ID: 240-208686-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208686-1

Project/Site: Ford LTP

Date Received: 08/02/24 08:00

Client Sample ID: TRIP BLANK_125

Lab Sample ID: 240-208686-1 Date Collected: 07/31/24 00:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 08/06/24 13:30 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 08/06/24 13:30 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 08/06/24 13:30 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 08/06/24 13:30 Trichloroethene 1.0 U 1.0 0.44 ug/L 08/06/24 13:30 Vinyl chloride 0.45 ug/L 1.0 U 1.0 08/06/24 13:30 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 95 62 - 137 08/06/24 13:30 4-Bromofluorobenzene (Surr) 91 08/06/24 13:30 56 - 136 95 78 - 122 08/06/24 13:30 Toluene-d8 (Surr) Dibromofluoromethane (Surr) 88 73 - 120 08/06/24 13:30

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208686-1

Project/Site: Ford LTP

Dibromofluoromethane (Surr)

Client Sample ID: MW-173S_073124

Date Collected: 07/31/24 13:00
Date Received: 08/02/24 08:00

Matrix: Water

Lab Sample ID: 240-208686-2

08/06/24 16:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/06/24 10:37	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	109		68 - 127					08/06/24 10:37	
Method: SW846 8260D - Volat		ounds by 0						00/00/24 10.37	
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil I

1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L		08/06/24 16:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L		08/06/24 16:28	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L		08/06/24 16:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L		08/06/24 16:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L		08/06/24 16:28	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L		08/06/24 16:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137				08/06/24 16:28	1
4-Bromofluorobenzene (Surr)	94		56 ₋ 136				08/06/24 16:28	1
Toluene-d8 (Surr)	100		78 - 122				08/06/24 16:28	1

73 - 120

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Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 240-208686-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		DCA	BFB	TOL	DBFM		
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)		
240-208686-1	TRIP BLANK_125	95	91	95	88		
240-208686-2	MW-173S_073124	102	94	100	93		
LCS 240-622400/5	Lab Control Sample	91	98	97	90		
MB 240-622400/9	Method Blank	94	91	94	87		

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)	
240-208686-2	MW-173S_073124	109	
240-208702-B-3 MS	Matrix Spike	106	
240-208702-B-3 MSD	Matrix Spike Duplicate	108	
LCS 240-622394/4	Lab Control Sample	107	
MB 240-622394/6	Method Blank	105	

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

Eurofins Cleveland

Client: Arcadis U.S., Inc. Job ID: 240-208686-1

Project/Site: Ford LTP

Method: 8260D - Volatile	Organic (Compounds b	y GC/MS
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Matrix: Water

Analysis Batch: 622400

Lab Sample ID: MB 240-622400/9

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

MB MB Dil Fac Analyte Result Qualifier RLMDL Unit D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 08/06/24 12:24 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 08/06/24 12:24 1.0 U 1.0 0.44 ug/L 08/06/24 12:24 Tetrachloroethene trans-1,2-Dichloroethene 08/06/24 12:24 1.0 U 1.0 0.51 ug/L Trichloroethene 1.0 U 1.0 0.44 ug/L 08/06/24 12:24 Vinyl chloride 1.0 U 1.0 0.45 ug/L 08/06/24 12:24

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137		08/06/24 12:24	1
4-Bromofluorobenzene (Surr)	91		56 - 136		08/06/24 12:24	1
Toluene-d8 (Surr)	94		78 - 122		08/06/24 12:24	1
Dibromofluoromethane (Surr)	87		73 - 120		08/06/24 12:24	1

Lab Sample ID: LCS 240-622400/5

Matrix: Water

Analysis Batch: 622400

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier Uni	t D	%Rec	Limits	
1,1-Dichloroethene	25.0	24.6	ug/l		98	63 - 134	
cis-1,2-Dichloroethene	25.0	25.0	ug/l	-	100	77 - 123	
Tetrachloroethene	25.0	26.0	ug/l	-	104	76 - 123	
trans-1,2-Dichloroethene	25.0	24.4	ug/l	•	98	75 - 124	
Trichloroethene	25.0	26.4	ug/l	-	106	70 - 122	
Vinyl chloride	12.5	12.3	ug/l	-	98	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 91 62 - 137 4-Bromofluorobenzene (Surr) 98 56 - 136 Toluene-d8 (Surr) 97 78 - 122 73 - 120 Dibromofluoromethane (Surr) 90

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

Lab Sample ID: MB 240-622394/6	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA

watrix: water								Prep Type:	iotai/NA
Analysis Batch: 622394									
	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			08/06/24 09:50	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		68 - 127			-		08/06/24 09:50	1

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QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208686-1

Project/Site: Ford LTP

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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 622394

Matrix: Water

Lab Sample ID: LCS 240-622394/4

	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	10.0	9.03		ug/L		90	75 - 121		

LCS LCS

 Surrogate
 %Recovery
 Qualifier
 Limits

 1,2-Dichloroethane-d4 (Surr)
 107
 68 - 127

Lab Sample ID: 240-208702-B-3 MS Client Sample ID: Matrix Spike

Matrix: Water Prep Type: Total/NA

Analysis Batch: 622394

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 2.0 U 10.0 9.66 ug/L 97 20 - 180 MS MS

Surrogate %Recovery Qualifier Limits
1,2-Dichloroethane-d4 (Surr) 106 68 - 127

Lab Sample ID: 240-208702-B-3 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water Prep Type: Total/NA

Analysis Batch: 622394

RPD Sample Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier RPD Unit %Rec Limits Limit 1,4-Dioxane 2.0 U 10.0 10.0 ug/L 100 20 - 180 20

 Surrogate
 %Recovery
 Qualifier
 Limits

 1,2-Dichloroethane-d4 (Surr)
 108
 68 - 127

Eurofins Cleveland

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QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208686-1

GC/MS VOA

Analysis Batch: 622394

Lab Sample ID 240-208686-2	Client Sample ID MW-173S 073124	Prep Type Total/NA	Matrix Water	Method Prep 8260D SIM	Batch
MB 240-622394/6	 Method Blank	Total/NA	Water	8260D SIM	
LCS 240-622394/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-208702-B-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-208702-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 622400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
240-208686-1	TRIP BLANK_125	Total/NA	Water	8260D
240-208686-2	MW-173S_073124	Total/NA	Water	8260D
MB 240-622400/9	Method Blank	Total/NA	Water	8260D
LCS 240-622400/5	Lab Control Sample	Total/NA	Water	8260D

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-208686-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_125

Lab Sample ID: 240-208686-1 Date Collected: 07/31/24 00:00

Matrix: Water

Dilution Batch Batch Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 622400 MDH EET CLE 08/06/24 13:30 Analysis

Client Sample ID: MW-173S_073124 Lab Sample ID: 240-208686-2

Date Collected: 07/31/24 13:00 **Matrix: Water**

Date Received: 08/02/24 08:00

Date Received: 08/02/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number /	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	622400	MDH	EET CLE	08/06/24 16:28
Total/NA	Analysis	8260D SIM		1	622394	MS	EET CLE	08/06/24 10:37

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: 240-208686-1

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	08-31-25
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	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-28-25
Pennsylvania	NELAP	68-00340	08-31-25
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 190 TestA

Chain of Custody Record

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

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Phone: 248-994-2240							TATI				_													,	Walk-in client		
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				Aqueous	Solid	her:	H2SO4	HNUS	Æ	ZaAc/ NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite=C/Grab=G	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				Sample Special Special Instr		'
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Submit all results through Cooma at Jtomalia@cadenaco. Level IV Reporting requested	com. Cadena #E	203728																									
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	YOA Gample 1 reservation - Date 1 mile 4 OAS 1102cm.
	TO A County Description Dest-Time VOA: From
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P	
	PLE PRESERVATION
were received with bubble >6 mm in diameter (Notify PM)	Tage
were received in a broken container	Sample(s) were received in a broken containe
anded holding time had everyed	PLE CONDITION
ext page Samples processed by:	18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
The company of the co	Concerning
via Verbal Voice Mail Other	Contacted PM Date by vi
Yes	Was a LL Hg or Me Hg trip blank present?
YE NO.	
Yes No (A) pH Strip Lot# HC442471	13 Were all preserved sample(s) at the correct pH upon receipt?14. Were VOAs on the COC?
i e (No	12. Are these work share samples and all insted on the CQC? If yes, Questions 13-17 have been checked at the originating laboratory
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(JN), and sample type of grab/comp(YN)? (Yes) No	9 For each sample, does the COC specify preservatives (YN), # of containers (YN), and sample type of grab/comp(YN)? 10 Were correct bottle(s) used for the test(s) indicated?
CYS) NO	
N N	
No Oil and Grease	•
SO ZA	- were tamper/custody seats intact and uncompromised?Shippers' packing slip attached to the cooler(s)?
- Z	-Were the seals on the outside or the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?
3 (Ges) No Tests that are not	s Quantity_
°C Corrected Cooler Temp°C	O. 1 °C) Observed Cooler
See Multiple Cooler Form	upon receipt
Other	Packing material used. Bubble Wrap Foam Plastic Bag None COOLANT: Wet Ice Blue Ice Dry Ice Water None
cr ,	ox Client Cooler Box
woins Courier Other Storage Location	Receipt After-hours Dron-off Date/Time Receipt After-hours Dron-off Date/Time
	8/2/24 Opened on 8/2
Cooler unpacked by:	Chent Arradis Site Name
Login# 3	Euro)ms — Cleyeland Sample Receipt Form/Natrative

Page 18 of 19

Login#:

	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Cilent Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Clent Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	(EC) Client Box Other	Cooler Description (Circle)	
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	11, 10, 10, 10, 10, 10, 10, 10, 10, 10,			The state of the s			The state of the s																The state of the s	m Adam								8.1	/. 2	07	Observed Temp °C	Eurofins - Cleveland Sample Receipt Multiple Cooler Form
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1 73 1	Wet ice Blue ice Dry ice Water None	e Ice None	Wet ice Blue ice Dry ice Water None	Wet ice Blue ice Dry ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet ice Blue ice Dry ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet ice Blue ice Dry ice Water None	Wet ice Blue ice Dry ice Water None	Wetice Blueice Dryice Water Name	Wet Ice Blue Ice Dry Ice Water None		Wet Ice Blue Ice Dry Ice Water None			Wet ice Blue ice Dry ice Water None	Wetice Blueice Dryice Water None	Wet ice Sive ice Dry ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet ice Blue ice Dry ice Water None	Wet ice Blue ice Dry ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wetice Blueice Dryice Water None	Wet ice Blue ice Dry ice Water Nane	Wet ice Blue ice Dry ice Water None	Coolant (Circle)								

WI-NC-099 Cooler Receipt Form Page 2 -- Multiple Coolers

Page 19 of 19 8/8/2024

DATA VERIFICATION REPORT



August 08, 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: 30206169.0401.04

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

Laboratory submittal: 208686-1 Sample date: 2024-07-31

Report received by CADENA: 2024-08-08

Initial Data Verification completed by CADENA: 2024-08-08

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: 208686-1

		Sample Name: Lab Sample ID: Sample Date:		6861 24			MW-173 240208 7/31/20			
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC	<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-8260	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-208686-1

CADENA Verification Report: 2024-08-08

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 55470R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-208686-1 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	Analysis			
Sample ID	Labib	IVIALITA	Collection Date	Parent Sample	VOC	VOC SIM		
TRIP BLANK_125	240-208686-1	Water	07/31/2024		X			
MW-173S_073124	240-208686-2	Water	07/31/2024		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		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

Rep	orted			Not Required
No	Yes	No	Yes	Required
C/MS)				
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
X				Х
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	X		Х	
	Х		Х	
	No C/MS)	X X X X X X X X X X X X X X X X X X X	Reported Acce No Yes No C/MS) X X X X X X X X X X X X X	No Yes No Yes

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: August 29, 2024

PEER REVIEW: Andrew Korycinski

DATE: September 7, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

MICHIGAN 190 TestAmerica

Test	America Labora	itory location:	Brig	hton	10448 Cita	ation D	rive.	Suite 2	200 /	Brigh	nton, f	MI 481	16 /	810-2	229-2	763						_			THE L	DEN IN UNI	HIGHMEN	TAL PEST	THY
Client Contact	Regulat	tory program:			DW	Т	NP	DES		- 1	RCRA		-	Other		-													
Company Name: Arcadis	Ciloro Basico I	Manager Kala				le:	- 6-		Ch-:		11/22					i ab C		a. h#1	ıa Dal	Moni						stAmerica DC No:	Labora	tories, le	nc.
Address: 28550 Cabot Drive, Suite 500	_ Client Project !	Manager: Kris	Hinsi	key		Sil	Site Contact: Christina Weaver							Lab Contact: Mike DelMonico					C	140.									
CimiSense/Film Navi ARI 40779	Telephone: 248	-994-2240				Te	Telephone: 248-994-2240							Telephone: 330-497-9396							1 of	1 (COCs	_					
City/State/Zip: Novi, MI, 48377	Email: kristoff	er.hinskev@ar	cadis	.com			Anı	ilysis	Ture	eroun	d Tim	e		1		Analyses						Fo	r lab use only		.00.5				
Phone: 248-994-2240		7.0																				T							
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				Ma	trix		Co	ataine	n & I	Preser	vatives	,	Sanı	100	1,1-DCE 8260D	SCE	Trans-1,2-DCE	9	8	Vinyl Chloride	1,4-Dioxane				-				_
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Sample Identification	Sample Date	Sample Time	N.	Aqueous	Solid	H2SO4	HNO3	I)II	NaOH	ZaV	Unpres		E	یّ	<u> </u>	cis-	Tra	PC	2	Š	4.					Special	nistract	ious.	
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208686-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_125

Lab Sample ID: 240-208686-1 Date Collected: 07/31/24 00:00 **Matrix: Water**

Date Received: 08/02/24 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			08/06/24 13:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/06/24 13:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/06/24 13:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/06/24 13:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/06/24 13:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/06/24 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137			-		08/06/24 13:30	1
4-Bromofluorobenzene (Surr)	91		56 ₋ 136					08/06/24 13:30	1
Toluene-d8 (Surr)	95		78 - 122					08/06/24 13:30	1
Dibromofluoromethane (Surr)	88		73 - 120					08/06/24 13:30	1

Client Sample ID: MW-173S_073124

Date Collected: 07/31/24 13:00

Date Received: 08/02/24 08:00

Method: SW846 8260D SIM -	Volatile 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			08/06/24 10:37	1
•	0/5	0					5	4	57.5

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		68 - 127			-		08/06/24 10:37	1
- Method: SW846 8260D - Volat	ile 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			08/06/24 16:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/06/24 16:28	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/06/24 16:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/06/24 16:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/06/24 16:28	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/06/24 16:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			_		08/06/24 16:28	1
4-Bromofluorobenzene (Surr)	94		56 ₋ 136					08/06/24 16:28	1
Toluene-d8 (Surr)	100		78 - 122					08/06/24 16:28	1
Dibromofluoromethane (Surr)	93		73 - 120					08/06/24 16:28	1

Lab Sample ID: 240-208686-2

Matrix: Water