PREPARED FOR

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

Generated 8/13/2024 7:27:26 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-208694-1

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 8/13/2024 7:27:26 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: 240-208694-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.

Job ID: 240-208694-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

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.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery

%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: 240-208694-1 Eurofins Cleveland

Job Narrative 240-208694-1

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 continuing calibration verification (CCV) analyzed in batch 240-622686 was outside the method criteria for the following analyte(s): Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The matrix spike/matrix spike duplicate (MS/MSD) for samples TRIP BLANK_110 (240-208694-1) and MW-137S_073124 (240-208694-2) was not reported, because the analyte list for these samples did not match the analyte list for the MS/MSD parent sample and needed reanalyzed.

TRIP BLANK 110 (240-208694-1) and MW-137S 073124 (240-208694-2)

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: 240-208694-1

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208694-1

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: 240-208694-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-208694-1	TRIP BLANK_110	Water	07/31/24 00:00	08/02/24 08:00
240-208694-2	MW-137S_073124	Water	07/31/24 09:55	08/02/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 240-208694-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_110

Lab Sample ID: 240-208694-1

No Detections.

Client Sample ID: MW-137S_073124 Lab Sample ID: 240-208694-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208694-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_110

Lab Sample ID: 240-208694-1 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			08/08/24 13:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/08/24 13:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 13:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/08/24 13:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 13:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/08/24 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			_		08/08/24 13:52	1
4-Bromofluorobenzene (Surr)	99		56 ₋ 136					08/08/24 13:52	1
Toluene-d8 (Surr)	101		78 - 122					08/08/24 13:52	1
Dibromofluoromethane (Surr)	104		73 - 120					08/08/24 13:52	1

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8/13/2024

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208694-1

Project/Site: Ford LTP

Client Sample ID: MW-137S_073124

Date Collected: 07/31/24 09:55 Date Received: 08/02/24 08:00

Lab Sample ID: 240-208694-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/07/24 11:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		08/07/24 11:55	1
Method: SW846 8260D - Volat	tile Organic Comp	ounds by G	C/MS						
Method: SW846 8260D - Volat Analyte		ounds by G	C/MS	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte		Qualifier		MDL 0.49		<u>D</u> .	Prepared	Analyzed 08/08/24 16:58	Dil Fac
	Result	Qualifier U	RL		ug/L	<u>D</u> .	Prepared		Dil Fac 1
Analyte 1,1-Dichloroethene		Qualifier U U		0.49	ug/L ug/L	<u>D</u> -	Prepared	08/08/24 16:58	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0 1.0	Qualifier U U U	1.0 1.0	0.49 0.46	ug/L ug/L ug/L	D -	Prepared	08/08/24 16:58 08/08/24 16:58	Dil Fac 1 1 1 1

Vinyl chloride	1.0	U	1.0	0.45 ug/L		08/08/24 16:58	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137			08/08/24 16:58	1
4-Bromofluorobenzene (Surr)	100		56 ₋ 136			08/08/24 16:58	1
Toluene-d8 (Surr)	99		78 - 122			08/08/24 16:58	1
Dibromofluoromethane (Surr)	107		73 - 120			08/08/24 16:58	1

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-208694-1 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)
240-208694-1	TRIP BLANK_110	101	99	101	104
240-208694-2	MW-137S_073124	103	100	99	107
LCS 240-622686/5	Lab Control Sample	95	103	98	100
MB 240-622686/9	Method Blank	101	105	103	107

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)	
240-208691-E-2 MS	Matrix Spike	99	
240-208691-E-2 MSD	Matrix Spike Duplicate	106	
240-208694-2	MW-137S_073124	106	
LCS 240-622546/4	Lab Control Sample	104	
MB 240-622546/6	Method Blank	97	

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

Client: Arcadis U.S., Inc. Job ID: 240-208694-1

Project/Site: Ford LTP

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

Lab Sample ID: MB 240-622686/9

Matrix: Water

Analysis Batch: 622686

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

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/08/24 10:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/08/24 10:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 10:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/08/24 10:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 10:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/08/24 10:56	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 08/08/24 10:56 101 4-Bromofluorobenzene (Surr) 105 56 - 136 08/08/24 10:56 Toluene-d8 (Surr) 103 78 - 122 08/08/24 10:56 Dibromofluoromethane (Surr) 107 73 - 120 08/08/24 10:56

Lab Sample ID: LCS 240-622686/5

Matrix: Water

Analysis Batch: 622686

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	20.0	19.5		ug/L		97	63 - 134	
cis-1,2-Dichloroethene	20.0	21.1		ug/L		106	77 - 123	
Tetrachloroethene	20.0	21.4		ug/L		107	76 - 123	
trans-1,2-Dichloroethene	20.0	19.9		ug/L		99	75 - 124	
Trichloroethene	20.0	21.5		ug/L		108	70 - 122	
Vinyl chloride	20.0	16.2		ug/L		81	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 95 62 - 137 4-Bromofluorobenzene (Surr) 103 56 - 136 Toluene-d8 (Surr) 98 78 - 122 73 - 120 Dibromofluoromethane (Surr) 100

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

Lab Sample ID: MB 240-622546/6	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA

Matrix. Water								i iep Type.	Otalina
Analysis Batch: 622546									
	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			08/07/24 10:44	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 127			-		08/07/24 10:44	1

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Client: Arcadis U.S., Inc. Job ID: 240-208694-1

Project/Site: Ford LTP

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

Lab Sample ID: LCS 240-622546/4 **Client Sample ID: Lab Control Sample Matrix: Water**

Analysis Batch: 622546

Spike LCS LCS %Rec Result Qualifier Analyte Added Unit %Rec Limits 1,4-Dioxane 10.0 8.85 ug/L 89 75 - 121

LCS LCS

Surrogate %Recovery Qualifier Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 104

Lab Sample ID: 240-208691-E-2 MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Water

Analysis Batch: 622546

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 2.0 U 10.0 8.81 ug/L 20 - 180

MS MS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 99

Lab Sample ID: 240-208691-E-2 MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 622546

MSD MSD RPD Sample Sample Spike %Rec Result Qualifier Added Qualifier RPD Analyte Result Unit %Rec Limits Limit 1,4-Dioxane 2.0 U 10.0 9.06 ug/L 91 20 - 180 20

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

Eurofins Cleveland

Prep Type: Total/NA

QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208694-1

GC/MS VOA

Analysis Batch: 622546

Lab Sample ID 240-208694-2	Client Sample ID MW-137S 073124	Prep Type Total/NA	Matrix Water	Method Prep Batch 8260D SIM
MB 240-622546/6	Method Blank	Total/NA	Water	8260D SIM
LCS 240-622546/4	Lab Control Sample	Total/NA	Water	8260D SIM
240-208691-E-2 MS	Matrix Spike	Total/NA	Water	8260D SIM
240-208691-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM

Analysis Batch: 622686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208694-1	TRIP BLANK_110	Total/NA	Water	8260D	
240-208694-2	MW-137S_073124	Total/NA	Water	8260D	
MB 240-622686/9	Method Blank	Total/NA	Water	8260D	
LCS 240-622686/5	Lab Control Sample	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-208694-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_110

Lab Sample ID: 240-208694-1 Date Collected: 07/31/24 00:00

Matrix: Water

Date Received: 08/02/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	622686	AJS	EET CLE	08/08/24 13:52

Client Sample ID: MW-137S_073124 Lab Sample ID: 240-208694-2

Date Collected: 07/31/24 09:55 Matrix: Water

Date Received: 08/02/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	622686	AJS	EET CLE	08/08/24 16:58
Total/NA	Analysis	8260D SIM		1	622546	MS	EET CLE	08/07/24 11:55

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: 240-208694-1

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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Chain of Custody Record

MICHIGAN TestAmerica

The Leader in Environmental Testing

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

Client Contact	Regulat	ory program:	,		DW	,	- N	PDES		-	RC	D A		Oth													
Company Name: Arcadis	Regulat	ory program.			D.			I DEC			NC.			O.III	.									d	FestAmerica	Laboratories.	Inc.
	Client Project !	Manager: Kris	Hinsk	cy			Site C	ontac	t: Ch	ristin	ıa W	eaver				Lab (Conta	ct: Mi	ke Del	Monie	0				COC No:		
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240	-				Telepl	hone:	248-	994-2	240					Telep	hone:	330-4	97-93	96							_
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Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.	com			Α.	naiysi	. I ui	rnaro	анц 1	ime	-		_			1	_^	Т			\neg		For lab use only		
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Special Instructions/QC Requirements & Comments:	Courston R	COW																									
Special Instructions/QC Requirements & Comments: Submit all results through Cadena at jtomalia@cadei Level IV Reporting requested.	naco.com. Cadena #E	203728																									
Relinquished by:	Company:	î.c		Date/	Time:	11.	20	7	Re	V C	d by:		1.1	cl	5√~£	C . 0			Com	pany:	MA	0):<			Date/Time.	163	$\overline{}$
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VOA Sample rreservation - Date/ time voas rrozen.
Sample(s) were further preserved in the laboratory Time preserved. Preservative(s) added/Lot number(s):
20. SAMPLE PRESERVATION
Sample(s)
PLE CONDITION
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Concerning
Contacted PM Date by via Verbal Voice Mail Other
15 Were air bubbles >6 mm in any VOA vials? Larger than this Yes (No NA 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes (No NA Yes
Were all preserved sample(s) at the correct pH upon receipt? Yes No. Were VOAs on the COC?
11 Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? If we Observe 12-17 have been checked at the originating laboratory.
For each sample, does the COC specify preservatives (NN), # of containers (NN), and sam Were correct bottle(s) used for the test(s) indicated?
Was/were the person(s) who collected the samples clearly identified on the COC? Yes Did all bottles arrive in good condition (Unbroken)?
inpromised? Yes (Yes (Yes)
Y: No
of the cooler(s)? If Yes Quantity 3 (cs) No
perature upon receipt 27 CD CD CD CD CD CD CD CD CD C
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8/2/24 Opened on 8/2
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Eurofins = Cleveland Sample Receipt Form/NarrativeLogin#

Page 18 of 19

Login#:

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

Page 19 of 19 8/13/2024

DATA VERIFICATION REPORT



August 13, 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_WA-02

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

Laboratory submittal: 208694-1 Sample date: 2024-07-31

Report received by CADENA: 2024-08-13

Initial Data Verification completed by CADENA: 2024-08-13

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 CCV response outliers and MS/MSD issues as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 208694-1

		Sample Name:	TRIP BL	ANK_11	0		MW-137			
		Lab Sample ID:	240208	6941			240208			
		Sample Date:	7/31/20	24			7/31/20			
				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 # 240-208694-1

CADENA Verification Report: 2024-08-13

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 55477R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-208694-1 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	Farent Sample	VOC	VOC SIM		
TRIP BLANK_110	240-208694-1	Water	07/31/2024		X			
MW-137S_073124	240-208694-2	Water	07/31/2024		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		Х		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 calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compound	Criteria
TRIP BLANK_110 MW-137S 073124	Continuing Calibration Verification %D	Vinyl chloride	-23.1%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
	RRF <0.05	Non-detect	R
	KKF <0.05	Detect	J
Initial and Continuing Calibration	DDE -0.041	Non-detect	R
Campianon	RRF <0.01 ¹	Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action

Initial/Continuing	Criteria	Sample Result	Qualification
		Detect	
	%RSD > 20% or a correlation coefficient <0.99	Non-detect	UJ
Initial Calibration	%RSD > 20% of a correlation coefficient <0.99	Detect	J
Initial Calibration	0/000 000/	Non-detect	R
	%RSD > 90%	Detect	J
	OVD COOK (in any and in any attitute)	Non-detect	UJ
	%D >20% (increase in sensitivity)	Detect	J
Operation via a Optila antique	0/D 000/ (dagged in aggrithmit.)	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	0/D 000/ // // // // // // // // // // // /	Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

Note:

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.

¹RRF of 0.01 only applies to compounds which are typically poor responding compounds

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		X	
	Х		Х	
	No C/MS)	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 30, 2024

PEER REVIEW: Andrew Korycinski

DATE: September 7, 2024

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record



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

Client Contact	Regulat	ory program:			□ DV	v	F	PDES	S		RC	CRA		_ O	her												
Company Name: Arcadis	Client Project N	Aanager: Kris	Hinsk	cy			Site C	ontac	t: Ch	hristi	na W	eaver				Lat	Con	tact:	Mike	DelN	Monic	0				TestAmerica Laborator COC No:	ries, Inc.
Address: 28550 Cabot Drive, Suite 500	Telephone: 248						Telen	hone:	2.18-1	00.11	2240					Tal	ephor	a. 33	L497.	.030	6				_		
City/State/Zip: Novi, M1, 48377								nalysi				Time			_	1	epiioi	ic. 55	,-4,7,1-			oc.				1 of 1 CO	Cs
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.	com			_^	naiysi	is Tui	rnarc	Junu	Time			Н	Analyses							For lab use only				
Project Name: Ford LTP	Sampler Name	/ :					TAT 1	differe		n belov 3 v			7							١						Walk-in client	
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Project Number: 30206169.0401.03	Method of Ship	ment/Carrier:						□ 2 days						۶	}			8	SIN								
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Sample Identification	Sample Date	Sample Time	Air		Solid Solid	Other:		Contai CONH	T		T,	T		Compatient (Grabe	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans_1 2_DCF 8260D	00900 300	00000	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				Sample Specific Not Special Instruction	
TRIP BLANK_ 110				1				1					Ī	N C	3 X	X	X	(x	: ;	X	Х					1 Trip Blank	
TRIP BLANK_110 MW-1375-073124	7/31/24	955		6				(0				1	VC	×	X	< >	7	< /	X	大	X				3 VOAs for 8260D 3 VOAs for 8260D	
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Possible Hazard Identification			Ш				Sa					may b									an 1						
	1 Irritant Poisc		Jnki	nown				Re	eturn	to Cli	ent	-	Dis	posal	By La	b		Arch	ive F	or I		N	lonths				
Special Instructions/QC Requirements & Comments: Submit all results through Cadena at jtomalia@cad Level IV Reporting requested.	onaco.com. Cadona #E	203728																									
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208694-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_110

Lab Sample ID: 240-208694-1 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			08/08/24 13:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/08/24 13:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 13:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/08/24 13:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 13:52	1
Vinyl chloride	1.0	K/UJ	1.0	0.45	ug/L			08/08/24 13:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			_		08/08/24 13:52	1
4-Bromofluorobenzene (Surr)	99		56 ₋ 136					08/08/24 13:52	1
Toluene-d8 (Surr)	101		78 - 122					08/08/24 13:52	1
Dibromofluoromethane (Surr)	104		73 - 120					08/08/24 13:52	1

Client Sample ID: MW-137S_073124

Date Collected: 07/31/24 09:55

1,4-Dioxane

Date Collected: 07/31/24 09:55						Matr	ix: Water				
Date Received: 08/02/24 08:00											
Method: SW846 8260D SIM - \	/olatile Organic Compounds (GC	C/MS)									
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac				

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127		08/07/24 11:55	1

2.0

0.86 ug/L

2.0 U

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/08/24 16:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/08/24 16:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 16:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/08/24 16:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 16:58	1
Vinyl chloride	1.0	KUJ	1.0	0.45	ug/L			08/08/24 16:58	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137	_		08/08/24 16:58	1
4-Bromofluorobenzene (Surr)	100		56 - 136			08/08/24 16:58	1
Toluene-d8 (Surr)	99		78 - 122			08/08/24 16:58	1
Dibromofluoromethane (Surr)	107		73 - 120			08/08/24 16:58	1

Lab Sample ID: 240-208694-2

08/07/24 11:55