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ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/24/2024 7:28:53 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-204307-1

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 5/24/2024 7:28:53 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: 240-204307-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.

Job ID: 240-204307-1

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

CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

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: 240-204307-1 Eurofins Cleveland

Job Narrative 240-204307-1

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 5/11/2024 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 3.6°C.

GC/MS VOA

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

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Job ID: 240-204307-1

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204307-1

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: 240-204307-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-204307-1	TRIP BLANK_45	Water	05/09/24 00:00	05/11/24 08:00
240-204307-2	MW-160S_050924	Water	05/09/24 12:45	05/11/24 08:00

-1

Detection Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204307-1

Client Sample ID: TRIP BLANK_45

No Detections.

Lab Sample ID: 240-204307-1

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204307-1

Project/Site: Ford LTP

Date Received: 05/11/24 08:00

Client Sample ID: TRIP BLANK_45

Lab Sample ID: 240-204307-1 Date Collected: 05/09/24 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/24 15:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 15:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 15:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 15:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 15:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		62 - 137			-		05/18/24 15:52	1
4-Bromofluorobenzene (Surr)	94		56 ₋ 136					05/18/24 15:52	1
Toluene-d8 (Surr)	100		78 - 122					05/18/24 15:52	1
Dibromofluoromethane (Surr)	102		73 - 120					05/18/24 15:52	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204307-1

Project/Site: Ford LTP

Client Sample ID: MW-160S_050924

Date Collected: 05/09/24 12:45

Date Received: 05/11/24 08:00

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

05/18/24 17:57

05/18/24 17:57

05/18/24 17:57

05/18/24 17:57

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			05/15/24 16:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		68 - 127			-		05/15/24 16:21	1
- Method: SW846 8260D - Volatile	e 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			05/18/24 17:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 17:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 17:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 17:57	1
			1.0	0.44	ug/L			05/18/24 17:57	1
Trichloroethene	1.0	U	1.0						
Trichloroethene Vinyl chloride	1.0		1.0		ug/L			05/18/24 17:57	1

62 - 137

56 - 136

78 - 122

73 - 120

119

91

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Surrogate Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204307-1

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

Matrix: Water Prep Type: Total/NA

-				Percent Sui	Surrogate Reco	
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-204275-C-10 MS	Matrix Spike	108	109	103	100	
240-204275-C-10 MSD	Matrix Spike Duplicate	106	110	102	100	
240-204307-1	TRIP BLANK_45	118	94	100	102	
240-204307-2	MW-160S_050924	119	91	99	102	
LCS 240-613543/4	Lab Control Sample	107	110	103	99	
MB 240-613543/6	Method Blank	116	94	100	100	
0						

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)	
240-204203-C-1 MS	Matrix Spike	109	
240-204203-C-1 MSD	Matrix Spike Duplicate	111	
240-204307-2	MW-160S_050924	110	
LCS 240-613063/4	Lab Control Sample	103	
MB 240-613063/6	Method Blank	108	
Surrogate Legend			
DCA = 1,2-Dichloroetha	ne-d4 (Surr)		

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Client: Arcadis U.S., Inc. Job ID: 240-204307-1

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

Lab Sample ID: MB 240-613543/6

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 613543

Client Sample ID: Method Blank

Prep Type: Total/NA

		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/24 15:28	1
ı	cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 15:28	1
ı	Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 15:28	1
	trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 15:28	1
ı	Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 15:28	1
	Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 15:28	1
ı										

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 05/18/24 15:28 116 4-Bromofluorobenzene (Surr) 94 56 - 136 05/18/24 15:28 05/18/24 15:28 Toluene-d8 (Surr) 100 78 - 122 Dibromofluoromethane (Surr) 100 73 - 120 05/18/24 15:28

Lab Sample ID: LCS 240-613543/4

Matrix: Water

Analysis Batch: 613543

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	25.1		ug/L		100	63 - 134	
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	77 - 123	
Tetrachloroethene	25.0	25.2		ug/L		101	76 - 123	
trans-1,2-Dichloroethene	25.0	25.5		ug/L		102	75 - 124	
Trichloroethene	25.0	24.4		ug/L		98	70 - 122	
Vinyl chloride	12.5	10.1		ug/L		81	60 - 144	
The state of the s								

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		62 _ 137
4-Bromofluorobenzene (Surr)	110		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Lab Sample ID: 240-204275-C-10 MS

Matrix: Water

Analysis Batch: 613543

Client Sample ID: Matrix Spike Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
cis-1,2-Dichloroethene	110		125	225		ug/L		89	66 - 128
Tetrachloroethene	110		125	218		ug/L		90	62 - 131
trans-1,2-Dichloroethene	5.0	U	125	125		ug/L		100	56 - 136
Trichloroethene	39		125	152		ug/L		91	61 - 124
Vinyl chloride	5.0	U	62.5	49.1		ug/L		79	43 - 157

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		62 - 137
4-Bromofluorobenzene (Surr)	109		56 ₋ 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

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

Job ID: 240-204307-1

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

Lab Sample ID: 240-204275-C-10 MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 613543

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
cis-1,2-Dichloroethene	110		125	226		ug/L		90	66 - 128	0	14	
Tetrachloroethene	110		125	209		ug/L		82	62 - 131	4	20	
trans-1,2-Dichloroethene	5.0	U	125	124		ug/L		99	56 - 136	1	15	
Trichloroethene	39		125	153		ug/L		91	61 - 124	0	15	
Vinyl chloride	5.0	U	62.5	51.8		ug/L		83	43 - 157	5	24	

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		62 - 137
4-Bromofluorobenzene (Surr)	110		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

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

Lab Sample ID: MB 240-613063/6 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 613063

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			05/15/24 10:06	1

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 108 68 - 127 05/15/24 10:06

Lab Sample ID: LCS 240-613063/4

Matrix: Water

Analysis Batch: 613063

	Spike	LCS L	LCS			%Rec	
Analyte	Added	Result C	Qualifier Unit	D	%Rec	Limits	
1.4-Dioxane	10.0	9.17	ua/L		92	75 - 121	

LCS LCS

Surrogate	%Recovery Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	103	68 - 127			

Lab Sample ID: 240-204203-C-1 MS

Matrix: Water

Analysis Batch: 613063

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	1.1	J	10.0	10.5		ug/L		93	20 - 180	

MS MS Surrogate %Recovery Qualifier

Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 109

Eurofins Cleveland

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

5/24/2024

QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204307-1

Project/Site: Ford LTP

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

Lab Sample ID: 240-204203-C-1 MSD	Client Sample ID: Matrix Spike Duplicate
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 613063

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	1.1	J	10.0	10.4		ug/L		93	20 - 180	0	20
	***	***									

Surrogate		%Recovery	Qualifier	Limits
	1 2-Dichloroethane-d4 (Surr)	111		68 - 127

QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204307-1

GC/MS VOA

Analysis Batch: 613063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204307-2	MW-160S_050924	Total/NA	Water	8260D SIM	
MB 240-613063/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-613063/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-204203-C-1 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-204203-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 613543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204307-1	TRIP BLANK_45	Total/NA	Water	8260D	
240-204307-2	MW-160S_050924	Total/NA	Water	8260D	
MB 240-613543/6	Method Blank	Total/NA	Water	8260D	
LCS 240-613543/4	Lab Control Sample	Total/NA	Water	8260D	
240-204275-C-10 MS	Matrix Spike	Total/NA	Water	8260D	
240-204275-C-10 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-204307-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_45

Lab Sample ID: 240-204307-1 Date Collected: 05/09/24 00:00

Matrix: Water

Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 613543 TJL2 EET CLE 05/18/24 15:52 Analysis

Client Sample ID: MW-160S_050924 Lab Sample ID: 240-204307-2

Date Collected: 05/09/24 12:45 **Matrix: Water**

Date Received: 05/11/24 08:00

Date Received: 05/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	613543	TJL2	EET CLE	05/18/24 17:57
Total/NA	Analysis	8260D SIM		1	613063	MDH	EET CLE	05/15/24 16:21

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: 240-204307-1

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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Chain of Custody Record

Test#	Ar	Υ	ne	ri	C
THE LEADER IN					

Client Contact	estAmerica Labora		Bright		DW.										2763	_						THE LEADER IN ENVIRONMENTAL TEST
ompany Name: Arcadis	Regulai	tory program:)	DW		F N	PDES	•		RCRA		Otl	her								TestAmerica Laboratories, I
	Client Project	Manager: Kris I	linske	y			Site C	ontac	t: Chr	istina	Weave	r			Lab (Contac	t: Mi	ke Del	Monie	00		COCC N
ddress: 28550 Cabot Drive, Suite 500	T 1 1 1 1 1 2 1 1	1 004 2240							240.00		40				703 1							(OC No:) Z
ity/State/Zip: Novi, MI, 48377	Telephone: 248	1-994-2240					Letept	none:	248-99	94-22	40				Telep	hone:	330-4	97-939	26			1 of 1 COCs
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hone: 248-994-2240	Summal or No.			_		-	TATE	-60°	nt from b	dan	_											Walls in all and
roject Name: Ford LTP	Sampler Name	NA	1	0	nn	اے			-	3 we		-										Walk-in client
oject Number: 30206169.0401.03	Method of Ship	ment/Carrier:	_			$\overline{}$	10	day		2 we		0		1						5		Lab sampling
		Albeito Carrier.								2 day		3	I			8260D			Q	8		
) # US3410018772	Shipping/Track	cing No:							-	1 day	y	٤	5 5		8260D	826			8260D	3600		Job/SDG No:
			100	M:	trix		C	ontair	ners &	Proc	rvativo		- 9	8260D	E 83	DCE	۵		ide	8 8		Control of the Contro
				ous		.	7 .		_		8 2	Section 2	Composite=C / Grab=G	1,1-DCE 8	cis-1,2-DCE	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride	1,4-Dioxane 8260D SIM		Sample Specific Notes /
Sample Identification	Sample Date	Sample Time	Alr	Sedin	Salid		HISON	E DE	NaOH	ZnAc	Unpres Other:	Ê	Com	=	cis-1	Tran	PCE	TCE	Viny	4.1		Special Instructions:
TRIP BLANK_ 4,5 1W - 1605_050924				1				1				N	1 G	X	Х	Х	Х	Х	X			1 Trip Blank
1. 1000 - 70000	ا آب	C-15.	17	-	$\dagger \dagger$		\neg	1				1	10		1			,	,			3 VOAs for 8260D
1605_050629	05/04/24	457	(9			\perp	6	2			_ <u> </u>	/ G	14	X	X	1	X	Y	×		3 VOAs for 8260D SIM
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				+			\dashv	4				_	_								\perp	
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Page 18 of 20

	VOA. Sample Preservation Date/Time VOAs Frozen.
	Sample(s) Prescryative(s) added/Lot number(s)
ın the laboratory	20 SAMPLE PRESERVATION were further preserved in the laboratory
qued. intaner otify PM)	19 SAMPLE CONDITION Were received after the recommended holding time had expired. Sample(s)
processed by	18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES L'additional next page Samples proc
Ą	Contacted PM Date by via Verbal Voice Mail Other
рН Stap Lo#НС439975	ting laboratory apt? Larger than this ank Lot # CONCRETE Yes No NA Yes No NA Yes No NA
ab/comp(YAV)?	Lers (YN), and sur
γOAs Oil and Grease TOC	Were tamper/custody seals intact and uncompromission: Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? Were the custody papers reimquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? Was/were the person(s) who collected the samples clearly identified on the COC? Was/were the person(s) who collected the samples clearly identified on the COC?
Tests that are not checked for pH by Receiving	HYes Quantity (Fee No NA dated? (LLHg/MeHg)? (LLHg/MeHg)? (See No NA
Temp 3.6 °C	Foam Plastic Bag 1 Floam Plastic Bag 1 e Ice Dry Ice Water "C) Observed Cooler T
	Cooler Received on Chent Drop Off Burofins Counter Officer FedBx: [4 Grd Bxp UPS FAS Waypont Chent Drop Off Burofins Counter Officer Received After January Drop off Bate/Pixes
NO	
	urofins=Gleycland Sample Receipt Romana Virginal Sample Receipt Re
j	

5/11/2024

Temperature readings			
Chent Sample ID	<u>Lab ID</u>	Container Type	<u>Container</u> <u>Preservation Preservation</u> <u>pH Temp Added Lot Number</u>
TRIP BLANK_45	240-204307 A 1	Voa Vial 40ml - Hydrochloric Acid	
MW-160S_050924	240-204307-A-2	Voa Vial 40ml - Hydrochloric Acid	
MW-160S 050924	240-204307-B-2	Voa Vial 40ml - Hydrochloric Acid	
MW-160S_050924	240-204307-C-2	Voa Vial 40ml - Hydrochloric Acıd	
MW-160S_050924	240-204307-D-2	Voa Vial 40ml - Hydrochloric Acid	
MW-160S_050924	240 204307-E-2	Voa Vial 40ml - Hydrochloric Acid	
MW-160S_050924	240-204307-F-2	Voa Viał 40ml - Hydrochloric Acid	

Page 1 of 1

DATA VERIFICATION REPORT



May 24, 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: 204307-1

Sample date: 2024-05-09

Report received by CADENA: 2024-05-24

Initial Data Verification completed by CADENA: 2024-05-24

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

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

There were no significant QC anomalies or exceptions to report.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 204307-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2402043 5/9/2024	071			MW-160 2402043 5/9/2024	8072	4	
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC OSW-826	OD									
<u>03W-020</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 # 240-204307-1

CADENA Verification Report: 2024-05-24

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 54258R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-204307-1 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 10	Labib	Wallix	Collection Date	Farent Sample	VOC	VOC SIM	
TRIP BLANK_45	240-204307-1	Water	05/09/2024		Х		
MW-160S_050924	240-204307-2	Water	05/09/2024		Х	Х	

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Rep	orted		mance otable	Not Required
	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		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation					
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	X				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		Х	
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 10, 2024

PEER REVIEW: Andrew Korycinski

DATE: June 12, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

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	tory program:		□ bw	□ NPDI	ES	□ RC	RA	-	Other						
ompany Name: Arcadis	Client Project	Manager Kris	Hinckory	·	Site Contr	stact: Christina Weaver Lab Co					Contro	e MD-	a Dalbi	Ingian	TestAmerica Laboratories, I	
ddress: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey Telephone: 248-994-2240													COC No: 20		
ity/State/Zip: Novi, M1, 48377					Telephone: 248-994-2240				Tele	phone:	330-49	7-9396	1 of 1 COCs			
	Email: kristoffer.hinskey/a arcadis.com Sampler Name: [] 7					Analysis Turnaround Time							An	alyses	For lab use only	
bone: 248-994-2240						ent from b	relow	T	ш							Walk-in client
roject Name: Ford LTP	Noch Donnte					-	3 weeks									
roject Number: 30206169,0401.03	Method of Shipment/Carrier:			10 day					٥					≥	Lab sampling	
)# US3410018772	Shipping/Tracking No:			-	☐ 2 days ☐ 1 day			mple (Y/N)	de l	0	260C			8260D SIM	Tabletic Na.	
	Surpping/Track	ting No:							ple (C/Grab	8260D	, E 8			8260	Job/SDG No:
				Matrix	Containers & Preservatives					826		5-00	8	8	lorid ane	
Sample Identification	Sample Date	Sample Time	Alr	Sediment Salid Other:	HSO4	HCI NaOH	ZnAc NaOH Unpres	Other:	Filtered	Composite=C / C	cis-1,2-DCE	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D S	Sample Specific Notes / Special Instructions:
TRIP BLANK_ 45 1W - [605_050924			1			1			N	_			-		X	1 Trip Blank
1. 1. 1.000 0 = 200.000	ا أدر	C-15:3						-	. /		-	+-1		-	3	3 VOAs for 8260D
1605_050629	05/04/24	12 W	6			0			N	64	7	X	14	X	44	3 VOAs for 8260D SIM
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Possible Hazard Identification					Samola	Dienoen	I / A Com	max ba		d if en m	N	. matric	ud lon		n 1 month)	
Non-Hazard Tammable vin frritant	Poiso	nB [Jnknown			eturn to				l By Lab			chive l		Months	
cial Instructions/QC Requirements & Comments:															-	
bmit all results through Cadena at jtomalia@cadenaco.co vel IV Reporting requested.	om. Cadena #E	203728	12	141	Bost	W	P	180	- 3	4						
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dinquished b	Company:	- ^	Della	Tithe:			eived in l	The same	1.1	-	OYI					Dun Orland

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204307-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_45

Lab Sample ID: 240-204307-1 Date Collected: 05/09/24 00:00 **Matrix: Water**

Date Received: 05/11/24 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			05/18/24 15:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 15:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 15:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 15:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 15:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 15:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		62 - 137			_		05/18/24 15:52	1
4-Bromofluorobenzene (Surr)	94		56 ₋ 136					05/18/24 15:52	1
Toluene-d8 (Surr)	100		78 - 122					05/18/24 15:52	1
Dibromofluoromethane (Surr)	102		73 - 120					05/18/24 15:52	1

Client Sample ID: MW-160S_050924 Lab Sample ID: 240-204307-2

Date Collected: 05/09/24 12:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/15/24 16:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		68 - 127			-		05/15/24 16:21	1
Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	C/MS						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/24 17:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 17:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 17:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 17:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 17:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		62 - 137			-		05/18/24 17:57	1
4-Bromofluorobenzene (Surr)	91		56 - 136					05/18/24 17:57	1
Toluene-d8 (Surr)	99		78 - 122					05/18/24 17:57	1
Dibromofluoromethane (Surr)	102		73 - 120					05/18/24 17:57	1

Matrix: Water