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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 11/29/2024 11:56:15 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-215393-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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Authorization

Generated 11/29/2024 11:56:15 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: Arcadis US Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-215393-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-215393-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

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)

MDD Mathed Detection Limit

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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11/29/2024

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Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-215393-1 Eurofins Cleveland

Job Narrative 240-215393-1

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 11/21/2024 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 4.2°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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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215393-1

Method **Method Description** Protocol Laboratory Volatile Organic Compounds by GC/MS SW846 EET CLE 8260D 8260D SIM Volatile Organic Compounds (GC/MS) SW846 EET CLE 5030C SW846 EET CLE Purge and Trap

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 US Inc.

Project/Site: Ford LTP

Job ID: 240-215393-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-215393-1	TRIP BLANK_92	Water	11/19/24 00:00	11/21/24 08:00
240-215393-2	MW-90S_111924	Water	11/19/24 13:05	11/21/24 08:00

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Detection Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215393-1

Client Sample ID: TRIP BLANK_92 Lab Sample ID: 240-215393-1

No Detections.

No Detections.

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-215393-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_92

Lab Sample ID: 240-215393-1 Date Collected: 11/19/24 00:00

Matrix: Water

Date Received: 11/21/24 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			11/25/24 13:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/25/24 13:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 13:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/25/24 13:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 13:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/25/24 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			_		11/25/24 13:37	1
4-Bromofluorobenzene (Surr)	99		56 ₋ 136					11/25/24 13:37	1
Toluene-d8 (Surr)	101		78 - 122					11/25/24 13:37	1
Dibromofluoromethane (Surr)	98		73 - 120					11/25/24 13:37	1

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-215393-1

Project/Site: Ford LTP

Client Sample ID: MW-90S_111924

Date Collected: 11/19/24 13:05

Lab Sample ID: 240-215393-2 Matrix: Water

Date Received: 11/21/24 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (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			11/26/24 18:54	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	106		68 - 127					11/26/24 18:54	1	

- Mathadi CW04C 22COD Valati	la Ormania Cama	aunda hu C	O (MC						
Method: SW846 8260D - Volati Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/25/24 14:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/25/24 14:00	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 14:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/25/24 14:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 14:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/25/24 14:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137			-		11/25/24 14:00	1
4-Bromofluorobenzene (Surr)	97		56 ₋ 136					11/25/24 14:00	1
Toluene-d8 (Surr)	100		78 - 122					11/25/24 14:00	1
Dibromofluoromethane (Surr)	96		73 - 120					11/25/24 14:00	1

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Surrogate Summary

Client: Arcadis US Inc. Job ID: 240-215393-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-215393-1	TRIP BLANK_92	106	99	101	98
240-215393-2	MW-90S_111924	104	97	100	96
240-215412-A-1 MSD	Matrix Spike Duplicate	96	102	103	95
240-215412-C-1 MS	Matrix Spike	102	104	108	97
LCS 240-636591/4	Lab Control Sample	101	102	101	93
MB 240-636591/7	Method Blank	104	100	100	93

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	
Client Sample ID	(68-127)	
Matrix Spike		
Matrix Spike Duplicate	100	
MW-90S_111924	106	
Lab Control Sample	109	
Method Blank	107	
	Matrix Spike Matrix Spike Duplicate MW-90S_111924 Lab Control Sample	Client Sample ID (68-127) Matrix Spike 111 Matrix Spike Duplicate 100 MW-90S_111924 106 Lab Control Sample 109

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Client: Arcadis US Inc. Job ID: 240-215393-1

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

Lab Sample ID: MB 240-636591/7

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 636591

Client Sample ID: Method B	lank
Dron Tunos Tota	I/NI A

	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			11/25/24 11:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/25/24 11:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 11:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/25/24 11:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 11:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/25/24 11:43	1

	MB	MB					
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 _ 137	_		11/25/24 11:43	1
4-Bromofluorobenzene (Surr)	100		56 ₋ 136			11/25/24 11:43	1
Toluene-d8 (Surr)	100		78 - 122			11/25/24 11:43	1
Dibromofluoromethane (Surr)	93		73 - 120			11/25/24 11:43	1

Lab Sample ID: LCS 240-636591/4

Matrix: Water

Analysis Batch: 636591

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	25.0		ug/L		100	63 - 134	
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	77 - 123	
Tetrachloroethene	25.0	25.6		ug/L		102	76 - 123	
trans-1,2-Dichloroethene	25.0	22.9		ug/L		92	75 - 124	
Trichloroethene	25.0	23.5		ug/L		94	70 - 122	
Vinyl chloride	12.5	13.1		ug/L		105	60 - 144	

	LCS	LCS			
Surrogate	%Recovery	Qualifier	Limits		
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		
4-Bromofluorobenzene (Surr)	102		56 ₋ 136		
Toluene-d8 (Surr)	101		78 - 122		
Dibromofluoromethane (Surr)	93		73 - 120		

Lab Sample ID: 240-215412-A-1 MSD

Matrix: Water

Analysis Batch: 636591

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	25.0	24.3		ug/L		97	56 - 135	6	26
cis-1,2-Dichloroethene	1.0	U	25.0	24.9		ug/L		100	66 - 128	2	14
Tetrachloroethene	1.0	U	25.0	24.5		ug/L		98	62 - 131	3	20
trans-1,2-Dichloroethene	1.0	U	25.0	23.1		ug/L		93	56 - 136	2	15
Trichloroethene	1.0	U	25.0	23.8		ug/L		95	61 - 124	4	15
Vinyl chloride	1.0	U	12.5	11.9		ug/L		95	43 - 157	10	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	103		78 - 122

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11/29/2024

Job ID: 240-215393-1

Client: Arcadis US Inc. Project/Site: Ford LTP

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

Lab Sample ID: 240-215412-A-1 MSD

Matrix: Water

Analysis Batch: 636591

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

MSD MSD

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 95 73 - 120

Lab Sample ID: 240-215412-C-1 MS

Matrix: Water

Analysis Batch: 636591

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	
1,1-Dichloroethene	1.0	U	25.0	22.8		ug/L		91	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	25.3		ug/L		101	66 - 128	
Tetrachloroethene	1.0	U	25.0	23.8		ug/L		95	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	22.8		ug/L		91	56 - 136	
Trichloroethene	1.0	U	25.0	22.8		ug/L		91	61 - 124	
Vinyl chloride	1.0	U	12.5	10.8		ug/L		87	43 - 157	

MS MS

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		62 - 137
4-Bromofluorobenzene (Surr)	104		56 - 136
Toluene-d8 (Surr)	108		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

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

Lab Sample ID: MB 240-636809/7

Matrix: Water

Analysis Batch: 636809

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Limits

75 - 121

Prep Type: Total/NA

Result Qualifier Analyte RL **MDL** Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 11/26/24 12:39 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 107 68 - 127 11/26/24 12:39

Lab Sample ID: LCS 240-636809/5

Analyte

1,4-Dioxane

Matrix: Water Prep Type: Total/NA Analysis Batch: 636809 Spike LCS LCS %Rec

Result

7.72

Qualifier

Unit

ug/L

Added

68 - 127

10.0

LCS LCS %Recovery Qualifier Surrogate Limits

109

Lab Sample ID: 240-215294-C-4 MS

Matrix: Water

Analysis Batch: 636809

1,2-Dichloroethane-d4 (Surr)

Client Sample ID: Matrix Spike

%Rec

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 7.97 ug/L 80 20 - 180

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QC Sample Results

Client: Arcadis US Inc. Job ID: 240-215393-1

Project/Site: Ford LTP

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

	MS MS	
Surrogate	%Recovery Qualific	r Limits
1,2-Dichloroethane-d4 (Surr)	111	68 - 127

Lab Sample ID: 240-215294-C-4 MSD	Client Sample ID: Matrix Spike Duplicate
Matrix: Water	Prep Type: Total/NA

Analysis	Batch:	636809
-----------------	--------	--------

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	8.15		ug/L		81	20 - 180	2	20

	IVISD	INISD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		68 - 127

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QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215393-1

GC/MS VOA

Analysis Batch: 636591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bat
240-215393-1	TRIP BLANK_92	Total/NA	Water	8260D	
240-215393-2	MW-90S_111924	Total/NA	Water	8260D	
MB 240-636591/7	Method Blank	Total/NA	Water	8260D	
LCS 240-636591/4	Lab Control Sample	Total/NA	Water	8260D	
240-215412-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-215412-C-1 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 636809

Lab Sample ID 240-215393-2	Client Sample ID MW-90S 111924	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-636809/7	– Method Blank	Total/NA	Water	8260D SIM	
LCS 240-636809/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-215294-C-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-215294-C-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-215393-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_92

Lab Sample ID: 240-215393-1 Date Collected: 11/19/24 00:00

Matrix: Water

Date Received: 11/21/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	636591	LEE	EET CLE	11/25/24 13:37

Client Sample ID: MW-90S_111924 Lab Sample ID: 240-215393-2

Date Collected: 11/19/24 13:05 Matrix: Water

Date Received: 11/21/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	636591	LEE	EET CLE	11/25/24 14:00
Total/NA	Analysis	8260D SIM		1	636809	R5XG	EET CLE	11/26/24 18:54

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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Accreditation/Certification Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215393-1

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
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
owa	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 Hampshire	NELAP	225024	09-30-25
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	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-24

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Chain of Custody Record

MICHIGAN TestAmerica
190
THE LEADER IN ENVIRONMENTAL TESTING

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

																	_			_							
Client Contact	Regular	ory program:			w	Г	NPD	DES		RCR	ŁA.	F 0	ther							-							
Company Name: Arcadis	Client Project	Manager: Kris	Hinskey			Site	Cont	tact: C	Christ	tina We:	aver			La	b Con	tact: 1	Mike I	elMon	iico				TestAmerica l	Laboratories.	Inc.		
Address: 28550 Cabot Drive, Suite 500														\perp											_		
City/State/Zip: Novi, M1, 48377	Telephone: 248	-994-2240				Tele	phon	ie: 248	8-994	-2240				Te	lephor	ie: 330	-497-	396					1 of 1	COCs	\dashv		
City/State/Zip: Novi, Wii, 465//	Email: kristoff	er.hinskey@ar	cadis.com	n			Anal	ysis T	-	round It	me:						Analyses						For lab use only	COCS			
Phone: 248-994-2240	Sampler Name			4.				ferent fro		710			r										Walk-in client				
Project Name: Ford LTP	Sampler Name	Jaram	1 .	Mya	6		0 da		□ 3	weeks													Lab sampling				
Project Number: 30206169.0401.03	Method of Ship	ment/Carrier:	-			7				week days		Z S	٥		9	3		٩	SIM								
PO # US3410018772	Shipping/Track			hipping/Tracking No:				1	_		Γ 1	day		ple (Y	Seon Crass	S S S S S S S S S S S S S S S S S S S	E 8260D			B 8260	8260D				Job/SDG No:		
				Matr	ix	_	Con	tainers	s & Pr	reservativ	res	u s		070		. e	3 2	i je	90	1 1							
Sample Identification	Sample Date	Sample Time	Air	Sediment	Solid Other:	H2S04	HNO3	HCI	NaOH	NaOH Unpres	Other:	Filtered Sample (Y / N)	Composite C/C	1, 1-DCE 020	Trans.1 2.DCF	PCF 82600	TCF 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					nstructions:			
TRIP BLANK_ 92			1	Ħ	Ì	Ť		1				NC	3)	x >	X	X	×	X					1 Trip Bla	ank			
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Special Instructions/QC Requirements & Comments: 35 Submit all results through Cadena at jtomalia@cadena Level IV Reporting requested.		21to St 203728	· 10	acky	रावे (छे																					
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Barby-Pon Ryching Sample Receipt Form/Narrative Logn # :
Opened on 11501-04
Receipt After-hours. Drop-off Date/Time Storage Location
ox Client Cooler Box
COOLANT (Wet Ice) Blue Ice Dry Ice Water None
IR GUN # (CF + D, 24C) Observed Cooler Temp. 4, O °C Corrected Cooler Temp. 4°C
Yes (TO) NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? -Were tamper/custody seals intact and uncompromised?
Shippers' packing slip attached to the cooler(s)? Yes No
Were the custody papers relinquished & signed in the appropriate place?
6 Was/were the person(s) who collected the samples clearly identified on the COC? (YES) No 7 Did all bottles arrive in good condition (Unbroken)?
with the COC?
10 Were correct bottle(s) used for the test(s) indicated? 11 Sufficient quantity received to perform indicated analyses? 12 No. 12 No
ng laboratory
_
Were air bubbles >6 mm m any VOA vials? Larger than this. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Was a LL Hg or Me Hg trip blank present?
Contacted PM Date by via Verbal Voice Mail Other
Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
19 SAMPLE CONDITION were received after the recommended holding time had expired. were received after the recommended holding time had expired. were received in a broken container
Sample(s)were received with bubble >6 mm in diameter (Notify PM)
20. SAMPLE PRESERVATION
Sample(s) were further preserved in the laboratory Time preserved: Preservative(s) added/Lot number(s).
VOA Sample Preservation - Date/Time VOAs Frozen.

Page 19 of 19

DATA VERIFICATION REPORT



November 30, 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-03

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

Laboratory submittal: 215393-1 Sample date: 2024-11-19

Report received by CADENA: 2024-11-29

Initial Data Verification completed by CADENA: 2024-11-30

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: 215393-1

		Sample Name: TRIP BLANK_92 Lab Sample ID: 2402153931 Sample Date: 11/19/2024								
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC	_									
<u>OSW-8260</u>	<u>)D</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>DSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-215393-1

CADENA Verification Report: 2024-11-30

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 56856R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-215393-1 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_92	240-215393-1	Water	11/19/2024		X					
MW-90S_111924	240-215393-2	Water	11/19/2024		X	X				

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfor Accep		Not Required
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
2. Requested analyses and sample results		Х		Х	
Master tracking list		Х		X	
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		X		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	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Febin J S

SIGNATURE:

DATE: December 16, 2024

PEER REVIEW: Andrew Korycinski

DATE: December 20, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

MICHIGAN TestAmerica
190
THE LEADER IN ENVIRONMENTAL TESTING

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

Client Contact	Regula	tory program	:		DW	Г	NPD	ES	F	RCRA	í	Oth	ber [
Company Name: Arcadis	Client Project	Manager: Kris	Hinskey		_	Site	Cont	act: C	hristin	a Weav	er		_	Lab (Contac	t: Mil	ke Del	Monic	0	_		COC N		oratories,	Inc.	
Address: 28550 Cabot Drive, Suite 500														T	Celephone: 330-497-9396							╄			-	
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240							-994-22													1 of 1 COCs				
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.co	m			Analy	sis Tu	raero	and Tax	*	Т	\vdash	Analyses								For lab use only				
FHORE: 246-774-2240	Sampler Name	: .	-	۸۸		TA	T if diffe	erent from	m below													Walk-in	client			
Project Name: Ford LTP		Method of Shipment/Carrier: Shipping/Tracking No:			10 day												Lab sampling									
Project Number: 30206169.0401.03						io uay	Г	1 w	eek	2	۲			0		<u> </u>					Lao sampung					
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				Mat	rix		Cont	ainers	& Pres	ervative		Y	8260D	SE 8	걸	۾	۵	oride	ne 8			100	= 770			
Sample Identification	Sample Date	Sample Time	Air	Sediment	Solid Other:	H2S04	HNO3	HCI	ZaAc/ NaOH	Unpres	W/V stores Second	Composite=C/Grab=G	1,1-DCE	cis-1,2-DCE	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				ample Speci Special Inst			
TRIP BLANK_ 92			1					1			N	1 G	Х	Х	Х	Х	Х	Х				1 T	rip Blan	k	7	
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Definitions/Glossary

Client: Arcadis US Inc.

Job ID: 240-215393-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

 Qualifier
 Qualifier Description

 U
 Indicates the analyte was analyzed for but not detected.

Glossary

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
Percent Recovery
Contains Free Liquid
Colony Forming Unit
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)
Dilution Factor
Detection Limit (DoD/DOE)
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
Decision Level Concentration (Radiochemistry)
Estimated Detection Limit (Dioxin)
Limit of Detection (DoD/DOE)
Limit of Quantitation (DoD/DOE)
EPA recommended "Maximum Contaminant Level"
Minimum Detectable Activity (Radiochemistry)
Minimum Detectable Concentration (Radiochemistry)
Method Detection Limit
Minimum Level (Dioxin)
Most Probable Number
Method Quantitation Limit
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

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-215393-1 Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_92

Lab Sample ID: 240-215393-1

Date Collected: 11/19/24 00:00 **Matrix: Water** Date Received: 11/21/24 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			11/25/24 13:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/25/24 13:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 13:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/25/24 13:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 13:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/25/24 13:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			_		11/25/24 13:37	1
4-Bromofluorobenzene (Surr)	99		56 ₋ 136					11/25/24 13:37	1
Toluene-d8 (Surr)	101		78 - 122					11/25/24 13:37	1
Dibromofluoromethane (Surr)	98		73 - 120					11/25/24 13:37	1

Client Sample ID: MW-90S_111924 Lab Sample ID: 240-215393-2

Date Collected: 11/19/24 13:05 Date Received: 11/21/24 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS) Result Qualifier MDL Unit Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 11/26/24 18:54

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106	68 - 127		11/26/24 18:54	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/25/24 14:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/25/24 14:00	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 14:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/25/24 14:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 14:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/25/24 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137		11/25/24 14:00	1
4-Bromofluorobenzene (Surr)	97		56 - 136		11/25/24 14:00	1
Toluene-d8 (Surr)	100		78 - 122		11/25/24 14:00	1
Dibromofluoromethane (Surr)	96		73 - 120		11/25/24 14:00	1

Matrix: Water