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ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-204317-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

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

Laboratory Job ID: 240-204317-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.

Job ID: 240-204317-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

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
0.51	

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: 240-204317-1 Eurofins Cleveland

Job Narrative 240-204317-1

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 temperatures of the 2 coolers at receipt time were 3.2°C and 3.9°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: 240-204317-1

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204317-1

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: 240-204317-1

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 240-204317-1
 TRIP BLANK_29
 Water
 05/08/24 00:00
 05/11/24 08:00

 240-204317-2
 MW-161S_050824
 Water
 05/08/24 10:20
 05/11/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204317-1

Client Sample ID: TRIP BLANK_29

Lab Sample ID: 240-204317-1

No Detections.

Client Sample ID: MW-161S_050824 Lab Sample ID: 240-204317-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204317-1

Project/Site: Ford LTP

Date Received: 05/11/24 08:00

Client Sample ID: TRIP BLANK_29

Lab Sample ID: 240-204317-1 Date Collected: 05/08/24 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 03:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 03:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 03:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 03:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 03:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 03:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			-		05/18/24 03:56	1
4-Bromofluorobenzene (Surr)	91		56 ₋ 136					05/18/24 03:56	1
Toluene-d8 (Surr)	96		78 - 122					05/18/24 03:56	1
Dibromofluoromethane (Surr)	101		73 - 120					05/18/24 03:56	1

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204317-1

Project/Site: Ford LTP

Client Sample ID: MW-161S_050824

Date Collected: 05/08/24 10:20 Date Received: 05/11/24 08:00

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Lab Sample ID: 240-204317-2

05/18/24 04:19

05/18/24 04:19

05/18/24 04:19

Matrix: Water

Method: SW846 8260D SIM - \	•	•	•						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/16/24 21:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 127			-		05/16/24 21:17	1
- Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/24 04:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 04:19	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 04:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 04:19	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 04:19	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 04:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		05/18/24 04:19	1

56 - 136

78 - 122

73 - 120

93

97

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-204317-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-204311-A-2 MSD	Matrix Spike Duplicate	97	103	98	97
240-204311-D-2 MS	Matrix Spike	96	105	101	94
240-204317-1	TRIP BLANK_29	106	91	96	101
240-204317-2	MW-161S_050824	106	93	97	106
LCS 240-613497/4	Lab Control Sample	95	102	102	94
MB 240-613497/7	Method Blank	105	93	100	100

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)	
240-204316-C-2 MS	Matrix Spike	102	
240-204316-C-2 MSD	Matrix Spike Duplicate	101	
240-204317-2	MW-161S_050824	102	
LCS 240-613351/4	Lab Control Sample	98	
MB 240-613351/6	Method Blank	100	
Surrogate Legend			

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

Client: Arcadis U.S., Inc. Job ID: 240-204317-1

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

Lab Sample ID: MB 240-613497/7

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 613497

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			05/17/24 22:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/17/24 22:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/17/24 22:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/17/24 22:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/17/24 22:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/17/24 22:57	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 05/17/24 22:57 105 4-Bromofluorobenzene (Surr) 93 56 - 136 05/17/24 22:57 Toluene-d8 (Surr) 100 78 - 122 05/17/24 22:57 Dibromofluoromethane (Surr) 100 73 - 120 05/17/24 22:57

Lab Sample ID: LCS 240-613497/4

Matrix: Water

Analysis Batch: 613497

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	21.1		ug/L		84	63 - 134	
cis-1,2-Dichloroethene	25.0	23.0		ug/L		92	77 - 123	
Tetrachloroethene	25.0	22.2		ug/L		89	76 - 123	
trans-1,2-Dichloroethene	25.0	20.8		ug/L		83	75 - 124	
Trichloroethene	25.0	21.4		ug/L		86	70 - 122	
Vinyl chloride	12.5	11.2		ug/L		89	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 95 62 - 137 4-Bromofluorobenzene (Surr) 56 - 136 102 Toluene-d8 (Surr) 102 78 - 122 73 - 120 Dibromofluoromethane (Surr) 94

Lab Sample ID: 240-204311-A-2 MSD

Matrix: Water

Analysis Batch: 613497

Client Sample ID: Ma	atrix 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	21.5		ug/L		86	56 - 135	13	26
cis-1,2-Dichloroethene	1.0	U	25.0	22.8		ug/L		91	66 - 128	7	14
Tetrachloroethene	1.0	U	25.0	19.7		ug/L		79	62 - 131	8	20
trans-1,2-Dichloroethene	1.0	U	25.0	21.2		ug/L		85	56 - 136	13	15
Trichloroethene	1.0	U	25.0	19.5		ug/L		78	61 - 124	10	15
Vinyl chloride	1.0	U	12.5	11.4		ug/L		91	43 - 157	9	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	103		56 - 136
Toluene-d8 (Surr)	98		78 - 122

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Client: Arcadis U.S., Inc. Job ID: 240-204317-1

Project/Site: Ford LTP

Lab Sample ID: 240-204311-A-2 MSD

Matrix: Water

Analysis Batch: 613497

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

MSD MSD

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

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 97 73 - 120

Lab Sample ID: 240-204311-D-2 MS

Matrix: Water

Analysis Batch: 613497

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	19.0		ug/L		76	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	21.3		ug/L		85	66 - 128	
Tetrachloroethene	1.0	U	25.0	18.1		ug/L		72	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	18.6		ug/L		74	56 - 136	
Trichloroethene	1.0	U	25.0	17.7		ug/L		71	61 - 124	
Vinyl chloride	1.0	U	12.5	10.4		ug/L		83	43 - 157	

MS MS

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	105		56 - 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	94		73 - 120

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

Lab Sample ID: MB 240-613351/6

Matrix: Water

Analysis Batch: 613351

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/16/24 18:56	1
	МВ	MB							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 100 68 - 127 05/16/24 18:56

Lab Sample ID: LCS 240-613351/4

Matrix: Water

Analysis Batch: 613351

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1 4-Dioxane	10.0	10.0	-	ua/l		100	75 - 121

LCS LCS

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

Lab Sample ID

Matrix: Water

Analysis Batch: 613351

D: 240-204316-C-2 MS	Client Sample ID: Matrix Spike
	Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Result Qualifier Analyte Added Result Qualifier Limits Unit %Rec 1,4-Dioxane 2.0 U 10.0 10.5 ug/L 105 20 - 180

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Client Sample ID: Lab Control Sample

Prep Type: Total/NA

QC Sample Results

Client: Arcadis U.S., Inc.

Job ID: 240-204317-1

Project/Site: Ford LTP

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		68 - 127

Lab Sample ID: 240-204316-C-2 MSD
Lab Campic ID. 240-204010-0-2 INOD

Matrix: Water

Analysis Batch: 613351

-	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	10.2		ug/L		102	20 - 180	3	20

Surrogate%RecoveryQualifierLimits1,2-Dichloroethane-d4 (Surr)10168 - 127

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

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QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204317-1

GC/MS VOA

Analysis Batch: 613351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204317-2	MW-161S_050824	Total/NA	Water	8260D SIM	
MB 240-613351/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-613351/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-204316-C-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-204316-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 613497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204317-1	TRIP BLANK_29	Total/NA	Water	8260D	
240-204317-2	MW-161S_050824	Total/NA	Water	8260D	
MB 240-613497/7	Method Blank	Total/NA	Water	8260D	
LCS 240-613497/4	Lab Control Sample	Total/NA	Water	8260D	
240-204311-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-204311-D-2 MS	Matrix Spike	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-204317-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_29

Lab Sample ID: 240-204317-1 Date Collected: 05/08/24 00:00

Matrix: Water

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	613497	LEE	EET CLE	05/18/24 03:56

Client Sample ID: MW-161S_050824 Lab Sample ID: 240-204317-2

Date Collected: 05/08/24 10:20 Matrix: Water

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	613497	LEE	EET CLE	05/18/24 04:19
Total/NA	Analysis	8260D SIM		1	613351	CS	EET CLE	05/16/24 21:17

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: 240-204317-1

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 (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

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Client Contact	estAmerica Labora Regulat	ory program:			- D				DES			RCRA		□ 0				_							LADER IN E							
Company Name: Arcadis																									stAmeric	a Labora	toriks, Îr	ic.				
Address: 28550 Cabot Drive, Suite 500	Client Project	danager: Kris	Hins	key			Site	Cor	ntact:	Chris	stina '	Weave	:r			Lab	Conta	et: Mi	ke Del	Monie	20			CC	C No:	9						
	Telephone: 248	-994-2240					Tele	epho	ne: 2	48-99	4-224	0				Tele	phone	330-	197-93	96								₫'				
City/State/Zip: Novi. MI, 48377	Email: kristoff	er.hinskey@ar	cadis	.com	-			An	alysis	Turn	roun	d lime		T				_	A	naly	ses			Fo	1 of r lab use or		COCs	\dashv				
Phone: 248-994-2240																4													The state of the s			
Project Name: Ford LTP	Sampler Name		^^				TAT	l'it'di	iffer ent	trom be	low 3 wee	ks L	\dashv											lw.	alk-in clien	t						
	Meg	on L	65				_ ₁	0 d	ау	~	2 wee	ks	- 1				GOS					Lab sampling										
Project Number: 30206169.0401.03	Method of Ship	ment/Carrier:									1 wee 2 days		- 1	2																		
PO # US3410018772	Shipping/Track	ing No:					7	T I day			G097	6260D CE 8260D R 8260D				Jo	Job/SDG No:															
				1	latri			Co	ontaline	n & F	reser	vatives		dua	260	E 82	DCE	0	0	nide	9 ar			100	100	T and						
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment	Other:	112504	INO3	IIC	NaOH	ZaAc	Unpres Other:		Filtered Sample (V / N)	1.1-DCE 8260D	cis-1,2-DCE	Trans, 1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane					: Specific l al Instruct						
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Submit all results through Cadena at jtomalia@cadena Level IV Reporting requested.		203728	71	-																												
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5/20/2024

<u> </u>	VOA Sample Preservation Date/Time VOAs Frozen.
··	Sampre(s) Preservative(s) added/Lot number(s).
	PLE PRESERVÁTI
	19 SAMPLE CONDITION were recented after the recommended holding time had expired. Sample(s) Sample(s) Were received with bubble >6 mm in diameter (Notify PM) Sample(s)
	
	18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Additional next page Samples processed by
<u> </u>	Contacted PM Date byvız Yerbal Voice Mail Other
	14. Were VOAs on the COC. 15 Were air bubbles >6 mm in any VOA vials? 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # COC. 17 Was a LL Hg or Me Hg trip blank present? Yes No.
 	11. Numcient quantity records a personnel process. 12. Are these work share samples and all listed on the COC? 13. Were all preserved sample(s) at the correct pH upon receipt? 13. Were all preserved sample(s) at the correct pH upon receipt? 14. Are these work share samples and all listed on the COC? 15. Are these work share samples and all listed on the COC? 16. Are these work share samples and all listed on the COC? 17. Are these work share samples and all listed on the COC? 18. Are these work share samples and all listed on the COC? 19. Are these work share samples and all listed on the COC? 19. Are these work share samples and all listed on the COC? 19. Are these work share samples and all listed on the COC? 19. Are these work share samples and all listed on the COC? 19. Are these work share samples and all listed on the COC? 19. Are these work share samples and all listed on the COC? 19. Are these work share samples and all listed on the COC? 19. Are these work share samples and all listed on the COC? 19. Are these work share samples and all listed on the COC? 19. Are these work share samples and all listed on the COC? 19. Are these work share samples and all listed on the COC? 19. Are these work share samples and all listed on the COC? 19. Are these work share samples and all listed on the COC? 19. Are these work share samples and all listed on the COC? 19. Are the confidence of the Cock of the
	ne COC?), # of contamers (Y/N), and rail (Y/N)
	Were the custody papers accompany the sample(s)? Were the custody papers reiniquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? No No No
	Sh.
	If Yes Quantity ICaC (Tes. No dated? (LLHg/McHg)? Yes
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MI-NC-099-041724 Cooler Receipt Form

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	Iltiple Cooler Form	Eurofins - Cleveland Sample Receipt Multiple Cooler Form	Eurofins - Clevelan				

Cooler Receipt Form Page 2 Multiple Coolers

5/11/2024

240-204317

(Login
	Container
•	Summary
•	Report

Temperature readings.			The state of the s
Chent Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number
TRIP BLANK_29	240-204317-A-1	Voa Vial 40ml - Hydrochloric Acıd	
MW-161S_050824	240-204317-A-2	Voa Vial 40ml - Hydrochloric Acid	
MW-161S_050824	240-204317-B-2	Voa Vial 40ml - Hydrochloric Acid	The state of the s
MW-161S_050824	240-204317-C-2	Voa Vial 40ml - Hydrochloric Acid	Service American Control of the Cont
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MW-161S_050824	240-204317-E-2	Voa Vial 40ml - Hydrochloric Acid	Annual Control of the
MW-161S 050824	240-204317-F-2	Voa Vial 40ml - Hydrochloric Acid	

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Page 1 of 1

DATA VERIFICATION REPORT



May 21, 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: 204317-1 Sample date: 2024-05-08

Report received by CADENA: 2024-05-20

Initial Data Verification completed by CADENA: 2024-05-21

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: 204317-1

		Sample Name: Lab Sample ID: Sample Date:	5/8/202	3171 4			MW-161 240204 5/8/202	3172 4	24	
	Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC	·									
	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>DDSIM</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 # 240-204317-1

CADENA Verification Report: 2024-05-21

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 54268R Review Level: Tier III Project: 30206169.401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-204317-1 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 Sam		Parant Sample	Ana	lysis	
Sample ID	Labib	Wallix	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_29	240-204317-1	Water	05/08/2024		Х	
MW-161S_050824	240-204317-2	Water	05/08/2024		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance otable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
Requested analyses and sample results		X		Х	
Master tracking list		X		Х	
4. Methods of analysis		X		Х	
5. Reporting limits		X		Х	
6. Sample collection date		X		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable, and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

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 11, 2024

PEER REVIEW: Andrew Korycinski

DATE: June 14, 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	ory program:	:		bW	F 1	NPDE	S	F 1	RCRA		┌ Ot	ber												
Company Name: Arcadis	Client Project N	donous Male	12: and an			Term.		(1)		11			-	D	C	Contact: Mike DelMonico				TestAmerica Laboratories, Inc.			Inc.		
Address: 28550 Cabot Drive, Suite 500			riinske	· 											COC	o: 2	2	j	\Box						
City/State/Zip: Novi, MI, 48377	Telephone: 248-994-2240 Email: kristoffer.hinskey/a arcadis.com			Tele	Telephone: 248-994-2240 Telephone: 330-					330-4	30-497-9396			1 of 1 COCs			COCs								
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				5 E	Soltd Other:		2	-		£		Filtered Sample (V / N) Composite—C / Grab=C		cis-1,2-DCE	Trans, 1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM			imple Spe Special In			
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Non-Hazard Tammable Sin Irritan	t Poiso	n B	Inkno	wn					to Clien		v Di					Archive			Months						
Special Instructions/QC Requirements & Comments: 34	351 BB	'acon	5+																						1
Submit all results through Cadena at jtomalia@cadenaco. Level IV Reporting requested.	com. Cadena #E	203728																	-						
Relinquished by: Megan Lee Woom U	OVCA &	15	D	ute/Tim	6/2	4 1	731	Re	verved I	by:	Col	d 4	sto	Vd o	H.		Comp	any:	dis		Date/Ti	ne: 08/2	4	<u>1</u> 73	0
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CONTR. Trestamenta Laboratories, sec. All region reserving. Tentamenta & Cresqu. ⁵⁰ are tradimenta of Testamenta Laboratories, inc.

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204317-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_29

Lab Sample ID: 240-204317-1 Date Collected: 05/08/24 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 03:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 03:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 03:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 03:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 03:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 03:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			_		05/18/24 03:56	1
4-Bromofluorobenzene (Surr)	91		56 ₋ 136					05/18/24 03:56	1
Toluene-d8 (Surr)	96		78 - 122					05/18/24 03:56	1
Dibromofluoromethane (Surr)	101		73 - 120					05/18/24 03:56	1

Client Sample ID: MW-161S_050824

Date Collected: 05/08/24 10:20

Date Received: 05/11/24 08:00

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Method: SW846 8260D \$	SIM - Volatile Organic C	ompounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/16/24 21:17	1
0	0/5	0					5		57.5

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 127	68 - 127		-		05/16/24 21:17	1
 Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/24 04:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 04:19	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 04:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 04:19	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 04:19	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 04:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			-		05/18/24 04:19	1
4-Bromofluorobenzene (Surr)	93		56 ₋ 136					05/18/24 04:19	1

78 - 122

73 - 120

97

106

Lab Sample ID: 240-204317-2

05/18/24 04:19

05/18/24 04:19

Matrix: Water