ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 5/31/2024 7:26:58 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-204990-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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Authorization

Generated 5/31/2024 7:26:58 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: 240-204990-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-204990-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits. 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**

Detection Limit (DoD/DOE) DL

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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCI MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

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) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

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Case Narrative

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

Job ID: 240-204990-1 Eurofins Cleveland

Job Narrative 240-204990-1

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 5/22/2024 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 3.5°C and 3.7°C.

GC/MS VOA

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

Eurofins Cleveland

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Job ID: 240-204990-1

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204990-1

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: 240-204990-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-204990-1	TRIP BLANK_115	Water	05/17/24 00:00	05/22/24 08:00
240-204990-2	MW-188S_051724	Water	05/17/24 13:05	05/22/24 08:00

Detection Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204990-1

Client Sample ID: TRIP BLANK_115

Lab Sample ID: 240-204990-1

No Detections.

Client Sample ID: MW-188S_051724 Lab Sample ID: 240-204990-2

No Detections.

1

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204990-1

Project/Site: Ford LTP

Vinyl chloride

Date Received: 05/22/24 08:00

Client Sample ID: TRIP BLANK_115

Lab Sample ID: 240-204990-1 Date Collected: 05/17/24 00:00

Matrix: Water

Analyzed

05/28/24 15:51

05/28/24 15:51

05/28/24 15:51

05/28/24 15:51

05/28/24 15:51

05/28/24 15:51

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L Tetrachloroethene 1.0 U 1.0 0.44 ug/L trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L Trichloroethene 1.0 U 1.0 0.44 ug/L

1.0 U

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119	62 - 137		05/28/24 15:51	1
4-Bromofluorobenzene (Surr)	82	56 - 136		05/28/24 15:51	1
Toluene-d8 (Surr)	98	78 - 122		05/28/24 15:51	1
Dibromofluoromethane (Surr)	114	73 - 120		05/28/24 15:51	1

1.0

0.45 ug/L

Dil Fac

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204990-1

Project/Site: Ford LTP

Date Received: 05/22/24 08:00

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Client Sample ID: MW-188S_051724

Lab Sample ID: 240-204990-2 Date Collected: 05/17/24 13:05

86

96

110

Matrix: Water

05/28/24 16:17

05/28/24 16:17

05/28/24 16:17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/29/24 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		68 - 127			-		05/29/24 14:04	1
Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/28/24 16:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/28/24 16:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 16:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/28/24 16:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 16:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/28/24 16:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			_		05/28/24 16:17	

56 - 136

78 - 122

73 - 120

Surrogate Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204990-1

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-204929-B-2 MSD	Matrix Spike Duplicate	105	99	96	102
240-204929-C-2 MS	Matrix Spike	104	94	99	103
240-204990-1	TRIP BLANK_115	119	82	98	114
240-204990-2	MW-188S_051724	116	86	96	110
LCS 240-614540/6	Lab Control Sample	104	96	101	101
MB 240-614540/10	Method Blank	113	85	95	108
Cuma mata I amam d					

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)	
240-204990-2	MW-188S_051724	92	
240-205008-A-2 MS	Matrix Spike	89	
240-205008-A-2 MSD	Matrix Spike Duplicate	93	
LCS 240-614704/4	Lab Control Sample	87	
MB 240-614704/6	Method Blank	85	
Surrogate Legend			
DCA = 1,2-Dichloroetha	ne-d4 (Surr)		

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Client: Arcadis U.S., Inc. Job ID: 240-204990-1

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

Lab Sample ID: MB 240-614540/10

Matrix: Water

Analyte

Project/Site: Ford LTP

Analysis Batch: 614540

Client Sam	ple ID:	Method	Blank
	Pren '	Type: To	tal/NA

MB MB Dil Fac Result Qualifier RLMDL Unit D Prepared Analyzed 1.0 U 1.0 0.49 ug/L 05/28/24 13:44

1,1-Dichloroethene cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/28/24 13:44 1.0 U 1.0 0.44 ug/L 05/28/24 13:44 Tetrachloroethene trans-1,2-Dichloroethene 1.0 U 05/28/24 13:44 1.0 0.51 ug/L Trichloroethene 1.0 U 1.0 0.44 ug/L 05/28/24 13:44 Vinyl chloride 1.0 U 1.0 0.45 ug/L 05/28/24 13:44

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		62 - 137		05/28/24 13:44	1
4-Bromofluorobenzene (Surr)	85		56 - 136		05/28/24 13:44	1
Toluene-d8 (Surr)	95		78 - 122		05/28/24 13:44	1
Dibromofluoromethane (Surr)	108		73 - 120		05/28/24 13:44	1

Lab Sample ID: LCS 240-614540/6 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 614540

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	17.5		ug/L	 _	87	63 - 134	
cis-1,2-Dichloroethene	20.0	18.4		ug/L		92	77 - 123	
Tetrachloroethene	20.0	17.3		ug/L		87	76 - 123	
trans-1,2-Dichloroethene	20.0	18.4		ug/L		92	75 - 124	
Trichloroethene	20.0	18.0		ug/L		90	70 - 122	
Vinyl chloride	20.0	21.4		ug/L		107	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		62 - 137
4-Bromofluorobenzene (Surr)	96		56 - 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

Lab Sample ID: 240-204929-B-2 MSD

Matrix: Water

Analysis Batch: 614540

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	20.0	17.5		ug/L		87	56 - 135	1	26
cis-1,2-Dichloroethene	1.7		20.0	20.4		ug/L		94	66 - 128	1	14
Tetrachloroethene	37	F1	20.0	46.5	F1	ug/L		50	62 - 131	8	20
trans-1,2-Dichloroethene	1.0	U	20.0	18.4		ug/L		92	56 - 136	1	15
Trichloroethene	2.9		20.0	20.6		ug/L		88	61 - 124	2	15
Vinyl chloride	1.0	U	20.0	21.8		ug/L		109	43 - 157	7	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	96		78 - 122

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Job ID: 240-204990-1

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

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

Lab Sample ID: 240-204929-B-2 MSD

Matrix: Water

Analysis Batch: 614540

Client Sample ID: Matrix Spike Duplicate

102

43 - 157

Prep Type: Total/NA

MSD MSD

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 102 73 - 120

Lab Sample ID: 240-204929-C-2 MS

Matrix: Water

Vinyl chloride

Analysis Batch: 614540

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

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1,1-Dichloroethene 1.0 U 20.0 17.2 ug/L 86 56 - 135 cis-1,2-Dichloroethene 20.0 20.1 92 66 - 128 1.7 ug/L Tetrachloroethene 37 F1 20.0 50.3 ug/L 69 62 - 131 trans-1,2-Dichloroethene 1.0 U 20.0 18.3 ug/L 91 56 - 136 Trichloroethene 2.9 20.0 21.0 ug/L 91 61 - 124

20.4

ug/L

20.0

1.0 U MS MS

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		62 - 137
4-Bromofluorobenzene (Surr)	94		56 - 136
Toluene-d8 (Surr)	99		78 - 122
Dibromofluoromethane (Surr)	103		73 - 120

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

Lab Sample ID: MB 240-614704/6

Matrix: Water

Analysis Batch: 614704

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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			05/29/24 11:20	1
	МВ	МВ							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 85 68 - 127 05/29/24 11:20

Lab Sample ID: LCS 240-614704/4

Matrix: Water

Analysis Batch: 614704

,	Spike	LCS LCS				%Rec
Analyte	Added	Result Qualif	ier Unit	D	%Rec	Limits
1.4-Dioyane	10.0	9.49	ua/l		95	75 121

LCS LCS

%Recovery Qualifier Surrogate Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 87

Lab Sample ID: 240-205008-A-2 MS

Matrix: Water

Analysis Batch: 614704

Client Sample ID: Matrix Spike	
Date of Toronto Total (NIA)	

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	9.81		ug/L		98	20 - 180	

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QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204990-1

Project/Site: Ford LTP Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

MSD MSD

%Recovery Qualifier

93

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

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Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Matrix: Water Analysis Batch: 614704

1,2-Dichloroethane-d4 (Surr)

Surrogate

	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	10.1		ug/L		101	20 - 180	3	20

Limits

68 - 127

QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204990-1

GC/MS VOA

Analysis Batch: 614540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
240-204990-1	TRIP BLANK_115	Total/NA	Water	8260D	
240-204990-2	MW-188S_051724	Total/NA	Water	8260D	
MB 240-614540/10	Method Blank	Total/NA	Water	8260D	
LCS 240-614540/6	Lab Control Sample	Total/NA	Water	8260D	
240-204929-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-204929-C-2 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 614704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204990-2	MW-188S_051724	Total/NA	Water	8260D SIM	
MB 240-614704/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-614704/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-205008-A-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-205008-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-204990-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_115

Lab Sample ID: 240-204990-1 Date Collected: 05/17/24 00:00

Matrix: Water

Date Received: 05/22/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D	_	1	614540	HMB	EET CLE	05/28/24 15:51

Client Sample ID: MW-188S_051724

Lab Sample ID: 240-204990-2

Matrix: Water

Date Collected: 05/17/24 13:05 Date Received: 05/22/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	614540	НМВ	EET CLE	05/28/24 16:17
Total/NA	Analysis	8260D SIM		1	614704	MDH	EET CLE	05/29/24 14:04

Laboratory References:

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

Eurofins Cleveland

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204990-1

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

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TestAmerica

190	TestAmerica Labora	tory location:	Brightor	ı 10	0448 C	itation D	rive,	Suite	200 / E	Brightor	n, MI 48	8116 / 81	10-229	9-2763									E LEADER IN ENVIRONMENTAL TESTIN
Client Contact	Regulat	ory program:		Г	DW	Г	NP	DES	ſ	RCI	RA	┌ Ot	her										
empany Name: Arcadis																							TestAmerica Laboratories, Inc
dress: 28550 Cabot Drive, Suite 500	Client Project N	danager: Kris I	linskey			Sit	e Coı	ntact:	Christ	ina We	aver			Lab	Conta	ct: Mi	ke Deli	Monic	D				COC No:
	Telephone: 248	994-2240			-	Te	lepho	ne: 2	48-994	-2240				Tele	phone:	330-4	97-939	96					
ty/State/Zip: Novi, MI, 48377	Emails lurises@	n binalan Gana	adia sam				Ans	IVER	Turnar	round I	ime		_				A	nalys	es		_		1 of 1 COCs For lab use only
one: 248-994-2240	Email: kristoff	г.шизкеу@агс	adis.com	•		200							Н	_	T				T				Tor and use only
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) # US3410018//2	Shipping/Track	ing No:							1 1	uay		Filtered Sample (Y / N) Composite=C/Grab=G	g	8260D	8			Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				300/3DG NO.
				Mat	rix		Co	ntaine	rs & Pr	eservati	ves		8260D	1 8	8	9	9	훈	e l				
				#		١.				"	l	B 8	빙	50	12	826	956	ਤੱ	ioxa				Sample Specific Notes /
0 1 1 1 10 11	Samuela Data	C1- Ti	1 10		ther	H2504	HNO3	ΕĞ	OF S	NAOH Unpres	ther		1,1-DCE	cis-1,2-DCE	Trans-1,2-DCE	PCE 8260D	TCE 8260D	<u>F</u>	4			1	Special Instructions:
Sample Identification	Sample Date	Sample 11me		Ø.	Ø [0	1.3	╪	╪	ZZ	ž -	9	+			+	10		2	-	_	+		
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VOA Sample Preservation Date/Time VOAs Frozen.
Time preserved. Preservative(s) added/Lot number(s)
PLE PRESERVATION
19 SAMPLE CONDITION Were received after the recommended holding time had expired. Sample(s) Were received after the recommended holding time had expired. Were received in a broken container Were received with bubble >6 mm in diameter (Notify PM)
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:
Сопсения
Contacted PM Date by via Verbal Voice Mail Other
15 Were air bubbles >6 mm m any VOA vials?
E \$
Could all bottle labels (ID/Date/Time) be reconciled with the COC? For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and san Were correct bottle(s) used for the test(s) indicated? Ex
5 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? 7 Did all bottles arrive in good condition (Unbroken)?
Shippers' packing slip attached to the cooler(s)? Yes No. Did custody papers accompany the sample(s)?
-Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised?
IR GUN# (CF D,D °C) Observed Cooler To
Blue Ice Dry Ice Waten None
Eurofins Cooler # C Poam Hox Client Cooler Box Other Packing material used Children From Plastic Ray None Other
Received on 5-37-24 Opened on 5-32-24 1st Grd Exp UPS FAS (Waypoint) Client Drop Off Eurofins Courier Other
Cooler unpacked
Burofins: Oleveland Sample Receint Form/Narrative and the same form in the contraction of

WI_NC 000-041774 Cooler Receipt Form

☐ See Temperature Excursion Form				
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Coolant (Circle)	Observed.	IR Gun # (Circle)	Cooler Description (Circle)	Cooler Do
ple Cööler Förm	Euronis - Cleveland Sample Receipt Multiple Cooler Form	≣Eurofins ≓Clevelan		

DATA VERIFICATION REPORT



May 31, 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: 204990-1 Sample date: 2024-05-17

Report received by CADENA: 2024-05-31

Initial Data Verification completed by CADENA: 2024-05-31

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: 204990-1

		Sample Name: Lab Sample ID: Sample Date:		9901 24			MW-188 240204 5/17/20	9902 24		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC OSW-826	<u>0D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-826	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-204990-1

CADENA Verification Report: 2024-05-31

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 54324R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-204990-1 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	Ana	lysis
Sample ID	Labib	IVIALITA	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_115	240-204990-1	Water	05/17/2024		X	
MW-188S_051724	240-204990-2	Water	05/17/2024		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

All compounds associated with the 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		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: Bindu Sree M B

SIGNATURE: BASHIME

DATE: June 25, 2024

PEER REVIEW: Andrew Korycinski

DATE: June 30, 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

5/14

<u>TestAmerica</u>

Client Contact	Regulat	ory program:		_ I	w	Г	NPI	DES		┌ RC	RA		Othe	r 🗆						_							
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cky/state/zap. Novi, Mit, 465//	Email: kristoff	er.hinskey@ar	cadis.con	1			Ana	lysis I	lurus	round	lime							A	nalys	es				For lab us			
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204990-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_115

Lab Sample ID: 240-204990-1 Date Collected: 05/17/24 00:00 **Matrix: Water**

Date Received: 05/22/24 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			05/28/24 15:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/28/24 15:51	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 15:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/28/24 15:51	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 15:51	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/28/24 15:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		62 - 137			_		05/28/24 15:51	1
4-Bromofluorobenzene (Surr)	82		56 ₋ 136					05/28/24 15:51	1
Toluene-d8 (Surr)	98		78 - 122					05/28/24 15:51	1
Dibromofluoromethane (Surr)	114		73 - 120					05/28/24 15:51	1

Client Sample ID: MW-188S_051724

Date Collected: 05/17/24 13:05

Date Received: 05/22/24 08:00

Method: SW846 8260D SIM - Vo	latile 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			05/29/24 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		68 - 127			_		05/29/24 14:04	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		68 - 127			-		05/29/24 14:04	1
- Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/28/24 16:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/28/24 16:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 16:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/28/24 16:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 16:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/28/24 16:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		62 - 137			_		05/28/24 16:17	1
4-Bromofluorobenzene (Surr)	86		56 ₋ 136					05/28/24 16:17	1
Toluene-d8 (Surr)	96		78 - 122					05/28/24 16:17	1
Dibromofluoromethane (Surr)	110		73 - 120					05/28/24 16:17	1

Lab Sample ID: 240-204990-2

Matrix: Water