PREPARED FOR

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

Generated 3/14/2024 6:23:17 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-200376-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 3/14/2024 6:23:17 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 - Off Site Laboratory Job ID: 240-200376-1

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Definitions/Glossary

Job ID: 240-200376-1 Client: Arcadis U.S., Inc.

Project/Site: Ford LTP - Off Site

Qualifiers GC/MS VOA

Qualifier **Qualifier Description**

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

Percent Recovery %R 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

DLC Decision Level Concentration (Radiochemistry)

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

EPA recommended "Maximum Contaminant Level" MCL 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 **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

Case Narrative

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

Job ID: 240-200376-1 Eurofins Cleveland

Job Narrative 240-200376-1

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 3/2/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.4°C and 3.8°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-605579 was outside the method criteria for the following analyte(s): Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The MSD for these samples was analyzed outside of the 12 hour QC tune time but is reported.

TRIP BLANK_29 (240-200376-1) and MW-168S_022924 (240-200376-2)

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

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Job ID: 240-200376-1

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Method Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200376-1

Project/Site: Ford LTP - Off Site

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 - Off Site

Job ID: 240-200376-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-200376-1	TRIP BLANK_29	Water	02/29/24 00:00	03/02/24 08:00
240-200376-2	MW-168S_022924	Water	02/29/24 14:25	03/02/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200376-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_29

Lab Sample ID: 240-200376-1

No Detections.

Client Sample ID: MW-168S_022924 Lab Sample ID: 240-200376-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200376-1

Project/Site: Ford LTP - Off Site

Date Received: 03/02/24 08:00

Client Sample ID: TRIP BLANK_29

Lab Sample ID: 240-200376-1 Date Collected: 02/29/24 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			03/11/24 16:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/11/24 16:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/11/24 16:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/11/24 16:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/11/24 16:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/11/24 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		62 - 137			_		03/11/24 16:04	1
4-Bromofluorobenzene (Surr)	89		56 ₋ 136					03/11/24 16:04	1
Toluene-d8 (Surr)	102		78 - 122					03/11/24 16:04	1
Dibromofluoromethane (Surr)	100		73 - 120					03/11/24 16:04	1

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200376-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-168S_022924

Lab Sample ID: 240-200376-2 Date Collected: 02/29/24 14:25

Matrix: Water

03/11/24 16:29

03/11/24 16:29

Date Received: 03/02/24 08:00

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Method: SW846 8260D SIM - V	olatile 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			03/08/24 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		68 - 127			-		03/08/24 14:33	1
Method: SW846 8260D - Volati	le 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			03/11/24 16:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/11/24 16:29	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/11/24 16:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/11/24 16:29	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/11/24 16:29	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/11/24 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		03/11/24 16:29	1
4-Bromofluorobenzene (Surr)	89		56 ₋ 136					03/11/24 16:29	1

78 - 122

73 - 120

101

Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200376-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				rogate Reco
	DCA	BFB	TOL	DBFM
Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
TRIP BLANK_29	114	89	102	100
MW-168S_022924	118	89	101	102
Matrix Spike Duplicate	100	100	100	90
Matrix Spike	104	98	102	92
Lab Control Sample	100	101	104	90
Method Blank	112	92	99	98
_	TRIP BLANK_29 MW-168S_022924 Matrix Spike Duplicate Matrix Spike Lab Control Sample	Client Sample ID (62-137) TRIP BLANK_29 114 MW-168S_022924 118 Matrix Spike Duplicate 100 Matrix Spike 104 Lab Control Sample 100	Client Sample ID (62-137) (56-136) TRIP BLANK_29 114 89 MW-168S_022924 118 89 Matrix Spike Duplicate 100 100 Matrix Spike 104 98 Lab Control Sample 100 101	Client Sample ID (62-137) (56-136) (78-122) TRIP BLANK_29 114 89 102 MW-168S_022924 118 89 101 Matrix Spike Duplicate 100 100 100 Matrix Spike 104 98 102 Lab Control Sample 100 101 104

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)	
240-200376-2	MW-168S_022924	101	
240-200378-B-2 MS	Matrix Spike	112	
240-200378-B-2 MSD	Matrix Spike Duplicate	123	
LCS 240-605411/5	Lab Control Sample	110	
MB 240-605411/7	Method Blank	111	

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

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3/14/2024

Job ID: 240-200376-1

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

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

Lab Sample ID: MB 240-605579/7

Matrix: Water Analysis Batch: 605579 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			03/11/24 12:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/11/24 12:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/11/24 12:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/11/24 12:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/11/24 12:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/11/24 12:42	1

MB MB %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 03/11/24 12:42 112 92 03/11/24 12:42 4-Bromofluorobenzene (Surr) 56 - 136 Toluene-d8 (Surr) 99 78 - 122 03/11/24 12:42 Dibromofluoromethane (Surr) 98 73 - 120 03/11/24 12:42

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Lab Sample ID: LCS 240-605579/4

Matrix: Water

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

Analyte

Analysis Batch: 605579

Client Sample ID: Lab Control Sample Prep Type: Total/NA

60 - 144

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits 63 - 134 25.0 21.9 ug/L 87 25.0 20.1 ug/L 80 77 - 123 25.0 24.7 ug/L 99 76 - 123 75 - 124 25.0 21.5 ug/L 86 25.0 20.0 80 ug/L 70 - 122

ug/L

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 100 62 - 137 4-Bromofluorobenzene (Surr) 101 56 - 136 Toluene-d8 (Surr) 104 78 - 122 Dibromofluoromethane (Surr) 73 - 120 90

Lab Sample ID: 240-200379-C-2 MSD

Matrix: Water

Analysis Batch: 605579

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

118

	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	22.9		ug/L		91	56 - 135	8	26
cis-1,2-Dichloroethene	1.0	U	25.0	20.5		ug/L		82	66 - 128	3	14
Tetrachloroethene	1.0	U	25.0	23.3		ug/L		93	62 - 131	4	20
trans-1,2-Dichloroethene	1.0	U	25.0	21.9		ug/L		88	56 - 136	3	15
Trichloroethene	1.0	U	25.0	19.9		ug/L		80	61 - 124	1	15
Vinyl chloride	1.6		12.5	16.7		ug/L		121	43 - 157	9	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	100		78 - 122

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Project/Site: Ford LTP - Off Site

Job ID: 240-200376-1 Client: Arcadis U.S., Inc.

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

Lab Sample ID: 240-200379-C-2 MSD

Matrix: Water

Analysis Batch: 605579

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

MSD MSD

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 90 73 - 120

Lab Sample ID: 240-200379-F-2 MS

Matrix: Water

Analysis Batch: 605579

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 25.0 21.2 ug/L 85 56 - 135 cis-1,2-Dichloroethene 1.0 U 25.0 198 79 66 - 128 ug/L Tetrachloroethene 1.0 U 25.0 22.5 ug/L 90 62 - 131 trans-1,2-Dichloroethene 1.0 U 25.0 21.3 ug/L 85 56 - 136 Trichloroethene 1.0 U 25.0 20.1 ug/L 80 61 - 124 Vinyl chloride 1.6 12.5 15.3 ug/L 110 43 - 157

MS MS

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

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

Matrix: Water

Analysis Batch: 605411

Lab Sample ID: MB 240-605411/7

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			03/08/24 11:22	1
	МВ	МВ							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 111 68 - 127 03/08/24 11:22

Lab Sample ID: LCS 240-605411/5

Matrix: Water

Analysis Batch: 605411

-		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	·	 10.0	8.45	·	ug/L		84	75 - 121	

LCS LCS

%Recovery Qualifier Surrogate Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 110

Lab Sample ID: 24

Matrix: Water

Analysis Batch: 605411

240-200378-B-2 MS	Client Sample ID: Matrix Spike
	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 8.46 ug/L 85 20 - 180

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QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200376-1

Project/Site: Ford LTP - Off Site

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

%Recovery Qualifier

123

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		68 - 127

Lab Sami	ple ID:	240-200378	3-B-2 MSD

Matrix: Water

Surrogate

1,2-Dichloroethane-d4 (Surr)

Analysis Batch: 605411											
	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	9.54	-	ug/L		95	20 - 180	12	20
	MSD	MSD									

Limits

68 - 127

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

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QC Association Summary

Client: Arcadis U.S., Inc. Job ID: 240-200376-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 605411

Lab Sample ID 240-200376-2	Client Sample ID MW-168S 022924	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-605411/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-605411/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-200378-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-200378-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 605579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200376-1	TRIP BLANK_29	Total/NA	Water	8260D	<u> </u>
240-200376-2	MW-168S_022924	Total/NA	Water	8260D	
MB 240-605579/7	Method Blank	Total/NA	Water	8260D	
LCS 240-605579/4	Lab Control Sample	Total/NA	Water	8260D	
240-200379-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-200379-F-2 MS	Matrix Spike	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-200376-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_29

Lab Sample ID: 240-200376-1 Date Collected: 02/29/24 00:00

Matrix: Water

Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 605579 LEE EET CLE 03/11/24 16:04 Analysis

Client Sample ID: MW-168S_022924 Lab Sample ID: 240-200376-2

Date Collected: 02/29/24 14:25 **Matrix: Water**

Date Received: 03/02/24 08:00

Date Received: 03/02/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	605579	LEE	EET CLE	03/11/24 16:29
Total/NA	Analysis	8260D SIM		1	605411	MDH	EET CLE	03/08/24 14:33

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. Job ID: 240-200376-1 Project/Site: Ford LTP - Off Site

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	02-27-24 *
Illinois	NELAP	200004	07-31-24
Iowa	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	04-01-24
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

 $^{^{\}star}\,\text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

MICHIGAN 190

Chain of Custody Record

<u>TestAmerica</u>

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Client Contact	Regulat	tory program:	;		DW		r	NPDE	S		R	CRA		Oth	ier											Santana da da da matania.
Company Name: Arcadis	Client Project #	Manager: Kris	H Insi	ey			Site (Conta	act: C	hri	stina Y	N eaver				Lab (Contac	t: Mik	e D ell	Monico						'estAmerica Laboratories, :OC No:
Address: 28559 Cabot Drive, Suite 500																									_	
Olty/State/Zip: Nevl, M1, 48377	Telephone: 248	-994-2240					Telep) It one	£ 243	-99	4-2240	,				Tele	plione:	330-4	97-93	70					-	1 of 1 COCs
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Phone: 248-994-2240	Sampler Name:						TAT	ildille	cront five	en be	clow		-												H	Falk-in chent
Project Name: Ford LTP Off-Site	V	- 1 V) c	1-	_					3	3 week															
Project Number: 301 67538.402.04	Method of Ship	ment/Carrier:	-0	POZ			1 10	0 day	' '		I week				1						¥ii ⊗ii			.	L	ab sampling
PO # 301 67538.402.04	654						1				2 days		Z	F		0	000			8	ο Q					ab/SDG No
FO = 5010/336.44C.04	Shipping/Track	18 40:									l day		mole (Y/N)	5	8	82600	14 100			88	8280				1	2:300 No
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WINC-069 Cooler Receips Form Page 3 - Multiple Cooler

DATA VERIFICATION REPORT



March 14, 2024

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631

Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater

Project number: 30167538.402.04

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

Laboratory submittal: 200376-1 Sample date: 2024-02-29

Report received by CADENA: 2024-03-14

Initial Data Verification completed by CADENA: 2024-03-14

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

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

The following minor QC exceptions or missing information were noted:

GCMS VOC CCV STANDARD response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA 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: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 200376-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2402003 2/29/202	3761			MW-168 2402003 2/29/202			
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>60D</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>SODSIM</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 # 240-200376-1

CADENA Verification Report: 2024-03-14

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53405R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200376-1 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_29	240-200376-1	Water	02/29/2024		Х			
MW-168S_022924	240-200376-2	Water	02/29/2024		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		Х		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 calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compound	Criteria
TRIP BLANK_29 MW-168S_022924	Continuous Calibration Verification %D	Vinyl chloride	+38.8%

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

Initial/Continuing	Criteria	Sample Result	Qualification	
	RRF <0.05	Non-detect	R	
	RRF <0.05	Detect	J	
Initial and Continuing	DDE -0.041	Non-detect	R	
Calibration	RRF <0.01 ¹	Detect	J	
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action	
	RRF >0.05 0 RRF >0.01	Detect	No Action	

Initial/Continuing	Criteria	Sample Result	Qualification
	0/ DCD - 200/ or a correlation coefficient -0.00	Non-detect	UJ
Initial Calibration	%RSD > 20% or a correlation coefficient <0.99	Detect	J
Initial Calibration	0/ DOD 000/	Non-detect	R
	%RSD > 90%	Detect	J
	0/D 000/ (; ; ; ; ; ;)	Non-detect	UJ
	%D >20% (increase in sensitivity)	Detect	J
	0/D 000/ / 1	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	0/D 000// // // // // // // // // // // //	Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

Note:

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

6. Compound Identification

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

All identified compounds met the specified criteria.

7. System Performance and Overall Assessment

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

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted	Perfo Acce	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		X		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		X	Х		
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		X		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		Х		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: Dilip Kumar

SIGNATURE:

DATE: March 24, 2024

PEER REVIEW: Andrew Korycinski

DATE: April 3, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

<u>TestAmerica</u>

TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 2007 Brighton, MI 48116 7 610-229-2763

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200376-1

Client Sample ID: TRIP BLANK_29

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-200376-1

Date Collected: 02/29/24 00:00 **Matrix: Water** Date Received: 03/02/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/11/24 16:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/11/24 16:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/11/24 16:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/11/24 16:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/11/24 16:04	1
Vinyl chloride	1.0	R N1	1.0	0.45	ug/L			03/11/24 16:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		62 - 137					03/11/24 16:04	1
4-Bromofluorobenzene (Surr)	89		56 - 136					03/11/24 16:04	1
Toluene-d8 (Surr)	102		78 - 122					03/11/24 16:04	1
Dibromofluoromethane (Surr)	100		73 - 120					03/11/24 16:04	1

Client Sample ID: MW-168S_022924 Lab Sample ID: 240-200376-2

Date Collected: 02/29/24 14:25 Date Received: 03/02/24 08:00

Method: SW846 8260D SIM	I - Volatile Orga	anic Comp	ounds (GC/N	1S)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/08/24 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)	101		68 - 127			-		03/08/24 14:33	1

Method: SW846 8260D - \	voiatile Organic	Compound	is by 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			03/11/24 16:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/11/24 16:29	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/11/24 16:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/11/24 16:29	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/11/24 16:29	1
Vinyl chloride	1.0	M NN	1.0	0.45	ug/L			03/11/24 16:29	1
Curre mate	0/ 0000000	Overlifier.	l inside				Duamanad	A h	D:/ F

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		62 - 137		03/11/24 16:29	1
4-Bromofluorobenzene (Surr)	89		56 - 136		03/11/24 16:29	1
Toluene-d8 (Surr)	101		78 - 122		03/11/24 16:29	1
Dibromofluoromethane (Surr)	102		73 - 120		03/11/24 16:29	1

Matrix: Water