PREPARED FOR

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

Generated 5/29/2024 7:50:56 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-204747-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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

Authorization

Generated 5/29/2024 7:50:56 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: 240-204747-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-204747-1

Project/Site: Ford LTP

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
%R	Percent Recovery
CFL	Contains Free Liquid

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

Estimated Detection Limit (Dioxin) EDL 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 **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

Case Narrative

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

Job ID: 240-204747-1 Eurofins Cleveland

Job Narrative 240-204747-1

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 5/18/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.7°C.

GC/MS VOA

Method 8260D: Method required MS/MSD and/or duplicate QC were prepared and analyzed at required batch frequency for analytical batch 240-614388 using samples from other sites, and are not reported with this project.

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

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204747-1

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: 240-204747-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-204747-1	TRIP BLANK_129	Water	05/15/24 00:00	05/18/24 08:00
240-204747-2	MW-191S_051524	Water	05/15/24 11:30	05/18/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 240-204747-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_129 Lab Sample ID: 240-204747-1

No Detections.

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
cis-1,2-Dichloroethene	5.0	1.0	0.46 ug/L	1	8260D	Total/NA

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204747-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_129

Lab Sample ID: 240-204747-1 Date Collected: 05/15/24 00:00

Matrix: Water

Date Received: 05/18/24 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			05/24/24 16:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/24/24 16:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/24/24 16:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/24/24 16:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/24/24 16:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/24/24 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137			_		05/24/24 16:56	1
4-Bromofluorobenzene (Surr)	97		56 ₋ 136					05/24/24 16:56	1
Toluene-d8 (Surr)	101		78 - 122					05/24/24 16:56	1
Dibromofluoromethane (Surr)	101		73 - 120					05/24/24 16:56	1

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5/29/2024

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204747-1

Project/Site: Ford LTP

Client Sample ID: MW-191S_051524

Date Collected: 05/15/24 11:30

Lab Sample ID: 240-204747-2 Matrix: Water

Date	Received:	05/18/24	08:00

Method: SW846 8260D SIM - V Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/24/24 06:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		68 - 127			_		05/24/24 06:40	1
 Method: SW846 8260D - Volat	ilo Organio Comp	ounds by G	C/MS						
Welliou: SW046 0260D - Volati	ne Organic Comp	ourius by C	C/IVIS						
Δnalvte	Result	Qualifier	RI	MDI	Unit	ח	Prepared	∆nalvzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/24/24 19:37	1
cis-1,2-Dichloroethene	5.0		1.0	0.46	ug/L			05/24/24 19:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/24/24 19:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/24/24 19:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/24/24 19:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/24/24 19:37	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137	-		05/24/24 19:37	1
4-Bromofluorobenzene (Surr)	94		56 - 136			05/24/24 19:37	1
Toluene-d8 (Surr)	97		78 - 122			05/24/24 19:37	1
Dibromofluoromethane (Surr)	100		73 - 120			05/24/24 19:37	1

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Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 240-204747-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

		Percent Sur	rrogate Rec
DCA	BFB	TOL	DBFM
ample ID (62-137)	(56-136)	(78-122)	(73-120)
ANK_129 104	97	101	101
S_051524 103	94	97	100
trol Sample 96	98	97	100
Blank 103	95	99	99
1	ample ID (62-137) ANK_129 104 S_051524 103 trol Sample 96	ample ID (62-137) (56-136) ANK_129 104 97 S_051524 103 94 trol Sample 96 98	ample ID (62-137) (56-136) (78-122) ANK_129 104 97 101 S_051524 103 94 97 trol Sample 96 98 97

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)	
240-204747-2	MW-191S_051524	98	
240-204757-E-3 MS	Matrix Spike	98	
240-204757-E-3 MSD	Matrix Spike Duplicate	96	
LCS 240-614186/3	Lab Control Sample	93	
MB 240-614186/5	Method Blank	93	

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

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Client: Arcadis U.S., Inc. Job ID: 240-204747-1

Project/Site: Ford LTP

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

Lab Sample ID: MB 240-614388/6 **Matrix: Water**

Analysis Batch: 614388

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/24/24 16:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/24/24 16:33	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/24/24 16:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/24/24 16:33	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/24/24 16:33	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/24/24 16:33	1

MB MB

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103	62 - 137		05/24/24 16:33	1
4-Bromofluorobenzene (Surr)	95	56 - 136		05/24/24 16:33	1
Toluene-d8 (Surr)	99	78 - 122		05/24/24 16:33	1
Dibromofluoromethane (Surr)	99	73 - 120		05/24/24 16:33	1

Lab Sample ID: LCS 240-614388/4

Matrix: Water

Analysis Batch: 614388

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier Uni	t D	%Rec	Limits	
1,1-Dichloroethene	25.0	25.6	ug/l		102	63 - 134	
cis-1,2-Dichloroethene	25.0	25.8	ug/l	-	103	77 - 123	
Tetrachloroethene	25.0	25.5	ug/l	-	102	76 - 123	
trans-1,2-Dichloroethene	25.0	26.9	ug/l	-	107	75 - 124	
Trichloroethene	25.0	25.9	ug/l	-	103	70 - 122	
Vinyl chloride	12.5	11.4	ug/l	-	91	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

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

Lab Sample ID: MB 240-614186/5 Client Sample ID: Method Blank

Matrix: Water								Prep Type: 1	otal/NA
Analysis Batch: 614186									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/24/24 00:24	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		68 - 127			_		05/24/24 00:24	1

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QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204747-1

Project/Site: Ford LTP

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

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

Matrix: Water Analysis Batch: 614186

Lab Sample ID: LCS 240-614186/3

Spike LCS LCS %Rec Result Qualifier Analyte Added Unit %Rec Limits 1,4-Dioxane 10.0 9.38 ug/L 94 75 - 121

LCS LCS

Surrogate %Recovery Qualifier Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 93

Lab Sample ID: 240-204757-E-3 MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Water

Analysis Batch: 614186

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 2.0 U 10.0 9.53 ug/L 20 - 180

MS MS

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

Lab Sample ID: 240-204757-E-3 MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 614186

MSD MSD RPD Sample Sample Spike %Rec Qualifier Added Qualifier RPD Analyte Result Result Unit %Rec Limits Limit 1,4-Dioxane 2.0 U 10.0 9.76 98 20 - 180 20 ug/L

MSD MSD Surrogate %Recovery Qualifier Limits

1,2-Dichloroethane-d4 (Surr) 96 68 - 127

Eurofins Cleveland

QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204747-1

GC/MS VOA

Analysis Batch: 614186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204747-2	MW-191S_051524	Total/NA	Water	8260D SIM	
MB 240-614186/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-614186/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-204757-E-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-204757-E-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 614388

Lab Sam	ole ID Client Sample II	D Prep	o Type Ma	trix Me	ethod Prep Ba	ch
240-2047	47-1 TRIP BLANK_12	29 Tota	II/NA Wa	ter 820	60D	_
240-2047	47-2 MW-191S_0515	Tota	ıl/NA Wa	ter 826	60D	
MB 240-6	14388/6 Method Blank	Tota	ıl/NA Wa	ter 820	60D	
LCS 240-	614388/4 Lab Control San	nple Tota	ıl/NA Wa	ter 820	60D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-204747-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_129

Lab Sample ID: 240-204747-1 Date Collected: 05/15/24 00:00

Matrix: Water

Date Received: 05/18/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	614388	SAM	EET CLE	05/24/24 16:56

Client Sample ID: MW-191S_051524 Lab Sample ID: 240-204747-2

Date Collected: 05/15/24 11:30 Matrix: Water

Date Received: 05/18/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	614388	SAM	EET CLE	05/24/24 19:37
Total/NA	Analysis	8260D SIM		1	614186	MDH	EET CLE	05/24/24 06:40

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: 240-204747-1

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	ber 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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MICHIGAN Chain of Custody Record TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

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Client Contact	Regulat	ory program:		_ I	w	_	NPD	ES	Г	RCRA		Oth	ner [
Company Name: Arcadis						Jo.							,	Lab Contact: Mike DelMonico								TestAmerica Laboratories, Inc.			
Address: 28550 Cabot Drive, Suite 500	Client Project	Manager: Kris	Hinskey		41	Site	Cont	act: C	hristina	Weav	er			Lab (Contac	et: Mi	ke Del	Monic	0				COC No:		
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240				Tele	phon	e: 248	-994-22	40				Telep	bone:	330-4	97-939	96					1 of 1	:OCs	
	Email: kristoff	er.hinskey@ar	cadis.com	0		100	Amaly	sis Tu	marqu	nd Tim	c			_			A	nalys	es				For lab use only	.00.5	
Phone: 248-994-2240	2					TAT				-		1	Г										Walk-in client		
Project Name: Ford LTP	Sampler Name					IAI	11 01110	٦	m below 3 we		-	t	ı										want-in chent		
Project Number: 30206169.0401.03	Method of Ship		nk		-	- ¹	0 day		2 we 1 we 1 we ■						_				Σ				Lab sampling	-	
PO # US3410018772	Shipping/Track	d N				4			2 day		KIN	Į		٥	2600			80D	IS Q				Job/SDG No:		
FO # US3410016772	Supping/Traci	ang No:									- 1	5/3	8	8260	SE 8			e 82	8260				Joors DG No:		
Sample Identification	Sample Date	Sample Time	Air	Sediment	Solid	H2SOM	63		ZaAci NaUH		20	Composite-C/Grab-G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				Sample Specific N		
TRIP BLANK_ 129	T		1					1			N	G	Х	Х	Х	X	Х	Х			T		1 Trip Blank		
	-1lan	113 Ch	6			П		6			N	G	X	X	አ	×	×	X	X		\top	+	3 VOAs for 8260		
MW-1915-051524	5/15/24	1130	110	+		+	\vdash	0			-r		_		^			_			+	+	3 VOAs for 8260	DSIM	
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																240)-204	747	Chai	n of C	ustod	y			
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Possible Hazard Identification Non-Hazard Ismmable cin Irrita	nt	nB [Jnknov	m .		S			osal (A to Clica	fee may	y be asses Dispo	sed if	samp y Lab				For T			nths					
Special Instructions/QC Requirements & Comments: Submit all results through Cadena at jtomalia@cadenacc Level IV Reporting requested.	.com. Cadena #E	203728	Na.	tions 015	GI.	enda	Til	e 4	Fron	P															
Relinquished by:	Company:		Day	o/Timo				R	eccived								Comp						Date/Time:		
Granet + Link Story fin		ADIS			24	12:	26		NO	Vi C	Cold	5	ter	448			A	RCI	AD!	5				30	
Relinquished by:	Company:	dis		Time	6/2	41	65	R	eccived	by:	n		~	V			Comp	any:	E	AA-			Date/Tirric:	455	
Relinquished by:	Company:			tc/Time							oratory b		2.0	. ^			Comp	any:		71			Date/Time:		
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VOA Sample Preservation - Date/Time VOAs Frozen.
Sample(s) were further preserved in the laboratory Time preserved Preservative(s) added/Lot number(s) were further preserved in the laboratory
20 SAMPLE PRESERVATION
19 SAMPLE CONDITION were received after the recommended holding time had expired Sample(s) were received mith bubble >6 mm in diameter (Notify PM)
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by
Concerning
Contacted PM Date by via Verbal Voice Mail Other
Were air bubbles >6 mm in any VOA vials? Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #00413017 Was a LL Hg or Me Hg trip blank present?
If yes, Questions 13-17 have been checked at the originating laboratory Were all preserved sample(s) at the correct pH upon receipt? Were VOAs on the COC?
10 Were correct bottle(s) used for the test(s) indicated? 11 Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? Yes (No)
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 say
Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
3 Shippers' packing slip attached to the cooler(s)? 4 Did custody papers accompany the sample(s)? VOAs VOAs VOAs VOAs Visit Manager and Control of the cooler (s)?
dated? Yes (LLHg/MeHg)? Yes
IR GUN # 18 (CF 10 0 °C) Observed Cooler Temp. 3, 7
Packing material used Bubble Wrap Foam Plastic Bag None Other COOLANT: WetCe Blue Ice Dry Ice Water None Cooler temperature upon receipt
-off Date/Lime Storage Foam Box Client Cooler Box Oth
Applint Client Drop Off Eurofins Courier Other
Site Name
Eurofins - Cleveland Sample Receipt Form/Narrative Login#

Page 18 of 19

Login Container Summary Report

240-204747

Temperature readings			Container Preservation Preservation
Client Sample ID	<u>Lab ID</u>	Container Type	
TRIP BLANK_129	240-204747-A-1	Voa Vial 40ml - Hydrochloric Acıd	
MW-1918_051524	240-204747-A-2	Voa Vial 40ml - Hydrochloric Acid	
MW-191S_051524	240-204747-B-2	Voa Vial 40ml - Hydrochloric Acid	
MW-1918_051524	240-204747-C-2	Voa Vial 40ml - Hydrochloric Acid	
MW-191S_051524	240-204747-D-2	Voa Vial 40ml - Hydrochloric Acid	
MW-191S_051524	240-204747-E-2	Voa Vial 40ml - Hydrochloric Acid	
MW-191S_051524	240-204747-F-2	Voa Vial 40ml - Hydrochloric Acid	

Page 19 of 19 5/29/2024

Page 1 of 1

DATA VERIFICATION REPORT



May 29, 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: 204747-1 Sample date: 2024-05-15

Report received by CADENA: 2024-05-29

Initial Data Verification completed by CADENA: 2024-05-29

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: 204747-1

		Sample Name:	TRIP BL	ANK_12	9		MW-191	1S_0515	24	
		Lab Sample ID:	240204	7471			240204	7472		
		Sample Date:	5/15/20	24			5/15/20	24		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<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		5.0	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>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 # 240-204747-1

CADENA Verification Report: 2024-05-29

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 54305R Review Level: Tier III Project: 30206169.401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-204747-1 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	ysis	
Sample ID	Labib	Wallix	Collection Date	Farent Sample	VOC	VOC SIM	
TRIP BLANK_129	240-204747-1	Water	05/15/2024		X		
MW-191S_051524	240-204747-2	Water	05/15/2024		X	X	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance otable	Not Required		
	No	Yes	No	Yes	Required		
Sample receipt condition		Х		Х			
Requested analyses and sample results		Х		Х			
Master tracking list		Х		Х			
4. Methods of analysis		Х		Х			
5. Reporting limits		Х		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 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.

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.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted	Perfo	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 21, 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

MICHIGAN Chain of Custody Record



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Sample Identification	Sample Date	Sample Time	ᆙ	Aqueous	Sediment	Other:	H2SO4	HN03	ΕĞ	NaOH	ZaAc/ NaOH	Unpres		Filter	1	cis-1.2	3	Laus	PCE 8260D	TCE 8260D	Vinyl	1,4-Dį					Special Instructions:
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204747-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_129

Lab Sample ID: 240-204747-1 Date Collected: 05/15/24 00:00 **Matrix: Water**

Date Received: 05/18/24 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			05/24/24 16:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/24/24 16:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/24/24 16:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/24/24 16:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/24/24 16:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/24/24 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137			-		05/24/24 16:56	1
4-Bromofluorobenzene (Surr)	97		56 ₋ 136					05/24/24 16:56	1
Toluene-d8 (Surr)	101		78 - 122					05/24/24 16:56	1
Dibromofluoromethane (Surr)	101		73 - 120					05/24/24 16:56	1

Client Sample ID: MW-191S_051524

Date Collected: 05/15/24 11:30

Date Received: 05/18/24 08:00

Date Received: 05/18/24 08:00										
Г										
Method: SW846 8260D SIM - Volat	ile Organic C	ompounds (G	iC/MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1.4-Dioyana	2.0	П	2.0	0.86	ua/l			05/24/24 06:40	1	

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 68 - 127 05/24/24 06:40 98

Method: SW846 8260D	- Volatile	Organic Cor	mpounds 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			05/24/24 19:37	1
cis-1,2-Dichloroethene	5.0		1.0	0.46	ug/L			05/24/24 19:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/24/24 19:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/24/24 19:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/24/24 19:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/24/24 19:37	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137	_		05/24/24 19:37	1
4-Bromofluorobenzene (Surr)	94		56 - 136			05/24/24 19:37	1
Toluene-d8 (Surr)	97		78 - 122			05/24/24 19:37	1
Dibromofluoromethane (Surr)	100		73 - 120			05/24/24 19:37	1

Lab Sample ID: 240-204747-2

Matrix: Water