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28550 Cabot Drive

PREPARED FOR

Attn: Kristoffer Hinskey

ANALYTICAL REPORT

Suite 500 Novi, Michigan 48377

Arcadis U.S., Inc.

Generated 5/24/2024 7:30:33 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-204308-1

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 5/24/2024 7:30:33 AM

Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)497-9396

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

Laboratory Job ID: 240-204308-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.

Job ID: 240-204308-1

Project/Site: Ford LTP

Qualifiers
GC/MS VOA

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Cleveland

Case Narrative

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

Job ID: 240-204308-1 Eurofins Cleveland

Job Narrative 240-204308-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/11/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°C.

GC/MS VOA

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

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Job ID: 240-204308-1

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204308-1

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: 240-204308-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-204308-1	TRIP BLANK_57	Water	05/09/24 00:00	05/11/24 08:00
240-204308-2	MW-147S_050924	Water	05/09/24 12:00	05/11/24 08:00

Detection Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204308-1

Client Sample ID: TRIP BLANK_57

Lab Sample ID: 240-204308-1

No Detections.

Client Sample ID: MW-147S_050924 Lab Sample ID: 240-204308-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204308-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_57

Lab Sample ID: 240-204308-1 Date Collected: 05/09/24 00:00

Matrix: Water

Date Received: 05/11/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/24 16:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 16:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 16:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 16:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 16:18	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		05/18/24 16:18	1
4-Bromofluorobenzene (Surr)	92		56 ₋ 136					05/18/24 16:18	1
Toluene-d8 (Surr)	100		78 - 122					05/18/24 16:18	1
Dibromofluoromethane (Surr)	103		73 - 120					05/18/24 16:18	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204308-1

Project/Site: Ford LTP

Client Sample ID: MW-147S_050924

Date Collected: 05/09/24 12:00 Date Received: 05/11/24 08:00

Dibromofluoromethane (Surr)

Lab Sample ID: 240-204308-2

05/18/24 18:22

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/15/24 16:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			-		05/15/24 16:45	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			05/18/24 18:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 18:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 18:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 18:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 18:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 18:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			_		05/18/24 18:22	1
4-Bromofluorobenzene (Surr)	92		56 - 136					05/18/24 18:22	1
Toluene-d8 (Surr)	100		78 - 122					05/18/24 18:22	1

73 - 120

Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 240-204308-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-204275-C-10 MS	Matrix Spike	108	109	103	100
240-204275-C-10 MSD	Matrix Spike Duplicate	106	110	102	100
240-204308-1	TRIP BLANK_57	117	92	100	103
240-204308-2	MW-147S_050924	116	92	100	101
LCS 240-613543/4	Lab Control Sample	107	110	103	99
MB 240-613543/6	Method Blank	116	94	100	100

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
	DCA	
Client Sample ID	(68-127)	
Matrix Spike	109	
Matrix Spike Duplicate	111	
MW-147S_050924	104	
Lab Control Sample	103	
Method Blank	108	
	Matrix Spike Matrix Spike Duplicate MW-147S_050924 Lab Control Sample	Client Sample ID (68-127) Matrix Spike 109 Matrix Spike Duplicate 111 MW-147S_050924 104 Lab Control Sample 103

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

Eurofins Cleveland

Client: Arcadis U.S., Inc. Job ID: 240-204308-1 Project/Site: Ford LTP

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

Lab Sample ID: MB 240-613543/6

Matrix: Water

Analysis Batch: 613543

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

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/24 15:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 15:28	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 15:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 15:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 15:28	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 15:28	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		62 - 137		05/18/24 15:28	1
4-Bromofluorobenzene (Surr)	94		56 - 136		05/18/24 15:28	1
Toluene-d8 (Surr)	100		78 - 122		05/18/24 15:28	1
Dibromofluoromethane (Surr)	100		73 - 120		05/18/24 15:28	1

Lab Sample ID: LCS 240-613543/4

Matrix: Water

Analysis Batch: 613543

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	25.1		ug/L		100	63 - 134	
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	77 - 123	
Tetrachloroethene	25.0	25.2		ug/L		101	76 - 123	
trans-1,2-Dichloroethene	25.0	25.5		ug/L		102	75 - 124	
Trichloroethene	25.0	24.4		ug/L		98	70 - 122	
Vinyl chloride	12.5	10.1		ug/L		81	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		62 _ 137
4-Bromofluorobenzene (Surr)	110		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Lab Sample ID: 240-204275-C-10 MS

Matrix: Water

Analysis Batch: 613543

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
cis-1,2-Dichloroethene	110		125	225		ug/L		89	66 - 128	
Tetrachloroethene	110		125	218		ug/L		90	62 - 131	
trans-1,2-Dichloroethene	5.0	U	125	125		ug/L		100	56 - 136	
Trichloroethene	39		125	152		ug/L		91	61 - 124	
Vinyl chloride	5.0	U	62.5	49.1		ug/L		79	43 - 157	

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		62 - 137
4-Bromofluorobenzene (Surr)	109		56 ₋ 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

Eurofins Cleveland

Page 12 of 20

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

Job ID: 240-204308-1

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

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

Lab Sample ID: 240-204275-C-10 MSD	Client Sample ID: Matrix Spike Duplicate
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 613543

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
cis-1,2-Dichloroethene	110		125	226		ug/L		90	66 - 128	0	14
Tetrachloroethene	110		125	209		ug/L		82	62 - 131	4	20
trans-1,2-Dichloroethene	5.0	U	125	124		ug/L		99	56 - 136	1	15
Trichloroethene	39		125	153		ug/L		91	61 - 124	0	15
Vinyl chloride	5.0	U	62.5	51.8		ug/L		83	43 _ 157	5	24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		62 - 137
4-Bromofluorobenzene (Surr)	110		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

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

Lab Sample ID: MB 240-613063/6 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 613063

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/15/24 10:06	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 127		05/15/24 10:06	1

Lab Sample ID: LCS 240-613063/4

Matrix: Water

Analysis Batch: 613063

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1.4-Dioxane	10.0	9.17		ua/L	_	92	75 - 121	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103	68 - 127

Lab Sample ID: 240-204203-C-1 MS

Matrix: Water

Analysis Batch: 613063

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	1.1	J	10.0	10.5		ug/L		93	20 - 180	

			MS	MS
				_

Surrogate	%Recovery Qualit	fier Limits
1 2-Dichloroethane-d4 (Surr)	109	68 - 127

Eurofins Cleveland

QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204308-1

Project/Site: Ford LTP

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

Lab Sample ID: 240-204203-C-1 MSD	Client Sample ID: Matrix Spike Duplicate
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 613063

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	1.1	J	10.0	10.4		ug/L		93	20 - 180	0	20

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	KPD	LI
1,4-Dioxane	1.1	J	10.0	10.4		ug/L		93	20 - 180	0	
	MSD	MSD									

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

5/24/2024

QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204308-1

GC/MS VOA

Analysis Batch: 613063

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204308-2	MW-147S_050924	Total/NA	Water	8260D SIM	
MB 240-613063/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-613063/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-204203-C-1 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-204203-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 613543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204308-1	TRIP BLANK_57	Total/NA	Water	8260D	<u> </u>
240-204308-2	MW-147S_050924	Total/NA	Water	8260D	
MB 240-613543/6	Method Blank	Total/NA	Water	8260D	
LCS 240-613543/4	Lab Control Sample	Total/NA	Water	8260D	
240-204275-C-10 MS	Matrix Spike	Total/NA	Water	8260D	
240-204275-C-10 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-204308-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_57

Lab Sample ID: 240-204308-1 Date Collected: 05/09/24 00:00

Matrix: Water

Date Received: 05/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	613543	TJL2	EET CLE	05/18/24 16:18

Client Sample ID: MW-147S_050924 Lab Sample ID: 240-204308-2

Date Collected: 05/09/24 12:00 Matrix: Water

Date Received: 05/11/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	613543	TJL2	EET CLE	05/18/24 18:22
Total/NA	Analysis	8260D SIM		1	613063	MDH	EET CLE	05/15/24 16:45

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: 240-204308-1

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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MICHIGAN 190

Chain of Custody Record

TestAm	erico
THE LEADER IN ENVIROR	MENTAL TESTING

170	TestAmerica Labora	tory location:	Brighton	1044	18 Citatio	on Driv	e, Su	ite 20	00 / E	Brighto	n, MI 4	18116	/ 810)-229-2	2763								THE LEADER IN	ENVIRON	MENTAL TI	STING
Client Contact	Regulat	ory program:		_ DA	v	F 1	NPDF	ES		RC	RA		Oth	er												
Company Name: Arcadis	Client Project !	Manager: Kris	Hinskey			Site (Conta	et: C	hrist	ina We	aver				Lab C	ontac	t: Mike	Dell	Ionica				TestAme COC No:		_ 1	
Address: 28550 Cabot Drive, Suite 500	Telephone: 248									-2240							330-49								4	20
City/State/Zip: Novi, MI, 48377															t elep	none:								of 1	COCs	=
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.com			- /	Anaty:	SIS I L	urnar	round l	ime	-		\vdash				A	ialyse	es			For lab use	only		
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Sample Identification	Sample Date	Sample Time	Alr Aqueous	Sediment	Other:	112504	IINO3		NaOH ZnAC	NaOH Unpres	Other:	Filtered Sample (Y / N)	Composite=C/	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				iple Speci ecial Inst		
TRIP BLANK_57			1			П		1				N	G	Х	Х	Х	Х	Х	Х				1 Tri	p Blani	k	
MW-1475_050974	5/9/24	1700	G					6				N	6	X	X	Х	χ	Х	X	X				As for 8 As for 8		IM
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Special Instructions/QC Requirements & Comments:			2		2	رق	_	_	- (\sim	$\overline{}$,
Submit all results through Cadena at jtomalia@caden. Level IV Reporting requested.	aco.com. Cadena #E	203728	5	346	10	しし	Ü	P	+	U)	2	+														
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13

	YOA Sample Preservation Date/Time VOAs Frozen.
	Sample(s) Time preserved. Preservative(s) added/Lot number(s)
were further preserved in the laboratory	20 SAMPLE PRESERVATION
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)	19 SAMPLE CONDITION Sample(s)
	1 1 1
ANCIES Additional next page Samples processed by	Concerning Concerning & SAMPLE DISCREPANCIES
by via Verbal Voice Mail Other	Confacted PMby_
Trap Blank Lot # Clurcd Yes No	14. Wete YOAs on the COC; 15 Were air bubbles >6 mm in any YOA yials?
Yes on laboratory Yes of the laboratory	
ae COC?), # of contamers (TAN), and sam	8 Could all bottles arrive in good condition (Outstand) 8 Could all bottle labels (D/Date/Time) be reconciled with the 9 Ror each sample, does the COC specify preservatives (Y/N) 10 Were correct bottle(s) used for the test(s) indicated?
H- COC7 (1) No	
nsed? Ver No NA VOAs VoAs Oil and Grease	. Sh
N. S.	2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Were the seals on the outside of the cooler(s) signed & dated? Were tamper/custody seals on the bottle(s) or bottle Lats (LLHg/MeHg)?
Observed Cooler Temp 3.6 °C Corrected Cooler Temp 3.6 °C	1 Cooler temperature upon receipt IR GUN # (CF
Box cBag 1 Water	Client Cooler Foam Plastu Ice Dry Ice
t Drop Off Eurofins Courier Other Storage-Location	Receint-Affer-hours-Drop-off-Date/Nac-
5-11-24	ما
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TENT IN DOUBLE

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5/11/2024

Login Container Summary Report

240-204308

Temperature readings				
Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number	ation Preservation Lot Number
TRIP BLANK_57	240-204308-A-1	Voa Vial 40ml - Hydrochloric Acid		
MW-147S_050924	240-204308 A-2	Voa Vial 40ml - Hydrochloric Acid		
MW-147S_050924	240-204308-B-2	Voa Vıal 40ml - Hydrochloric Acid		
MW-147S_050924	240-204308-C-2	Voa Vial 40ml - Hydrochloric Acıd		***************************************
MW-147S 050924	240-204308-D-2	Voa Vial 40ml - Hydrochloric Acid		
MW-147S_050924	240-204308-E-2	Voa Vial 40ml - Hydrochloric Acıd		
MW-147S_050924	240-204308-F-2	Voa Vial 40ml - Hydrochloric Acid		

Page 20 of 20 5/24/2024

Page 1 of 1

DATA VERIFICATION REPORT



May 24, 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: 204308-1

Sample date: 2024-05-09

Report received by CADENA: 2024-05-24

Initial Data Verification completed by CADENA: 2024-05-24

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 Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

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: 204308-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLANK_57 2402043081 5/9/2024			MW-147S_050924 2402043082 5/9/2024				
				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	60DSIM									
	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 # 240-204308-1

CADENA Verification Report: 2024-05-24

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 54259R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-204308-1 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	Parent Sample	VOC	VOC SIM	
TRIP BLANK_57	240-204308-1	Water	05/09/2024		Х		
MW-147S_050924	240-204308-2	Water	05/09/2024		Х	X	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Performance Acceptable		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		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	Performance Acceptable		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 10, 2024

PEER REVIEW: Andrew Korycinski

DATE: June 12, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190 _{Te}

Chain of Custody Record



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

Client Contact	Regulatory program:	DW	□ NPDES □ RCRA	Other			
Company Name: Arcadis	Client Project Manager: Kris	Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	TestAmerica Laboratories, Inc.		
Address: 28550 Cabot Drive, Suite 500					20		
City/State/Zip: Novi, MI, 48377	Telephone: 248-994-2240		Telephone: 248-994-2240	Telephone: 330-497-9396	1 of 1 COCs		
Phone: 248-994-2240	Email: kristoffer.hinskey@ar	cadis.com	Analysis Turnaround Time	Analyses	For lab use only		
	Sampler Name:	10	TAT if different from below		Walk-in client		
Project Name: Ford LTP	1 Hanc	à Pitera	10 day 2 weeks		Lab sampling		
Project Number: 30206169.0401.03	Method of Shipment/Carrier:		1 week	2 9 g g g			
PO # US3410018772	Shipping/Tracking No:		□ I day		Job/SDG No:		
	<u> </u>	Matrix	Containers & Preservatives	=C/c			
				Filtered Sample (V/Composite=C/Grat Composite=C/Grat 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	Sample Specific Notes /		
		Alr Aqueous Sediment Solid	H2SO4 HIGH NaOH NaOH Vaohres Others	1-DC 1-1.2 ans-	Special Instructions:		
Sample Identification	Sample Date Sample Time	Adu Afr Sedi Sedi ONh	E E E Z 57 5 5				
TRIP BLANK_57		1	1 1 1	N G X X X X X X	1 Trip Blank		
NO. 1 1/176 OF (CZI)	5 lala 1700				3 VOAs for 8260D		
MW-1475_050974	5/9/24 1700	6	0	NGXXXXXX	3 VOAs for 8260D SIM		
				FILE COLUMN TO THE COLUMN TO T			
			24	40-204308 Chain of Custody			
				L			
Possible Hazard Identification Non-Hazard Sammable Sin Ir	ritant Poison B			assessed if samples are retained longer than 1 month)			
✓ Non-Hazard	ntant Poison B	Jaknowa	Return to Client 🕝 D	Disposal By Lab Archive For Months			
Submit all results through Cadena at jtomalia@cadena	oco com Cadana #E202729	21125	FCapital St				
Level IV Reporting requested.	ico.com. Cadena #E203726	2440	$F \omega (P \cap O) \cup O$				
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Relinquished by:	Company	Date/Time:	Received in Laborator	ory by: Company	Date/Time:		
WOOX NO	FEM	5/10/24		IMY ROYFR EELOC	5-11-7480		
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204308-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_57

Lab Sample ID: 240-204308-1 Date Collected: 05/09/24 00:00 **Matrix: Water**

Date Received: 05/11/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/24 16:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 16:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 16:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 16:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 16:18	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		62 - 137			_		05/18/24 16:18	1
4-Bromofluorobenzene (Surr)	92		56 ₋ 136					05/18/24 16:18	1
Toluene-d8 (Surr)	100		78 - 122					05/18/24 16:18	1
Dibromofluoromethane (Surr)	103		73 - 120					05/18/24 16:18	1

Client Sample ID: MW-147S_050924

Date Collected: 05/09/24 12:00

1,4-Dioxane

ate Collected: 05/09/24 12:00 Ma								
Date Received: 05/11/24 08:00								
Method: SW846 8260D SIM - Vol	atile Organic Co	ompounds (G	C/MS)					
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 2-Dichloroethane-d4 (Surr)	104	68 - 127		05/15/24 16:45	1

2.0

0.86 ug/L

Method: SW846 8260D	- Volatile	Organic Com	pounds by	GC/MS

2.0 U

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/24 18:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/24 18:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 18:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/24 18:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/24 18:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/24 18:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	116		62 - 137		05/18/24 18:22	1	
4-Bromofluorobenzene (Surr)	92		56 - 136		05/18/24 18:22	1	
Toluene-d8 (Surr)	100		78 - 122		05/18/24 18:22	1	
Dibromofluoromethane (Surr)	101		73 - 120		05/18/24 18:22	1	

Lab Sample ID: 240-204308-2

05/15/24 16:45