## PREPARED FOR

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

Generated 6/5/2024 7:47:30 AM

# **JOB DESCRIPTION**

Ford LTP

### **JOB NUMBER**

240-205039-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

# **Eurofins Cleveland**

#### **Job Notes**

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### Authorization

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Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 2

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

Laboratory Job ID: 240-205039-1

# **Table of Contents**

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	17
Lab Chronicle	18
Certification Summary	19
Chain of Custody	20

4

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9

10

12

13

### **Definitions/Glossary**

Client: Arcadis U.S., Inc.

Job ID: 240-205039-1

Project/Site: Ford LTP

#### **Qualifiers**

<b>GC/MS VOA</b>	
Qualifier	Qualifier Description
В	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

#### Glossary

ML

MPN

MQL

NC ND

NEG

POS

PQL PRES

QC

RER RL

RPD TEF

TEQ

**TNTC** 

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present
Practical Quantitation Limit

Presumptive

**Quality Control** 

Method Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

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

Clossary	
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

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#### **Case Narrative**

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

Job ID: 240-205039-1 Eurofins Cleveland

Job Narrative 240-205039-1

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 5/23/2024 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 1.8°C and 3.4°C.

#### GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-614817 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\_SIM: The method blank for analytical batch 240-615070 contained 1,4-Dioxane above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or reanalysis of samples was not performed.

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

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Page 5 of 23 6/5/2024

2

Job ID: 240-205039-1

3

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### **Method Summary**

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-205039-1

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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Page 6 of 23 6/5/2024

### **Sample Summary**

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-205039-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-205039-1	TRIP BLANK_92	Water	05/21/24 00:00	05/23/24 08:00
240-205039-2	MW-234_052124	Water	05/21/24 12:25	05/23/24 08:00
240-205039-3	MW-235_052124	Water	05/21/24 14:00	05/23/24 08:00

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### **Detection Summary**

Client: Arcadis U.S., Inc. Job ID: 240-205039-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_92 Lab Sample ID: 240-205039-1

No Detections.

Client Sample ID: MW-234\_052124 Lab Sample ID: 240-205039-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	D Method	Prep Type
1,4-Dioxane	1.0 JB	2.0	0.86 ug/L	1	8260D SIM	Total/NA

Client Sample ID: MW-235\_052124 Lab Sample ID: 240-205039-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.1	JB	2.0	0.86	ug/L	1	_	8260D SIM	Total/NA
cis-1,2-Dichloroethene	2.5		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	4.5		1.0	0.45	ug/L	1		8260D	Total/NA

### **Client Sample Results**

Client: Arcadis U.S., Inc. Job ID: 240-205039-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_92

Lab Sample ID: 240-205039-1 Date Collected: 05/21/24 00:00

**Matrix: Water** 

Date Received: 05/23/24 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			05/30/24 20:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/30/24 20:00	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/30/24 20:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/30/24 20:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/30/24 20:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/30/24 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		62 - 137			-		05/30/24 20:00	1
4-Bromofluorobenzene (Surr)	95		56 <sub>-</sub> 136					05/30/24 20:00	1
Toluene-d8 (Surr)	100		78 - 122					05/30/24 20:00	1
Dibromofluoromethane (Surr)	102		73 - 120					05/30/24 20:00	1

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Page 9 of 23 6/5/2024

### **Client Sample Results**

Client: Arcadis U.S., Inc. Job ID: 240-205039-1

Project/Site: Ford LTP

Date Received: 05/23/24 08:00

Client Sample ID: MW-234\_052124

Lab Sample ID: 240-205039-2 Date Collected: 05/21/24 12:25

**Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,4-Dioxane	1.0	JB	2.0	0.86	ug/L			05/31/24 21:13	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			-		05/31/24 21:13	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/31/24 02:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/31/24 02:14	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 02:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/31/24 02:14	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 02:14	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/31/24 02:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		62 - 137			_		05/31/24 02:14	1

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120	62 - 137		05/31/24 02:14	1
4-Bromofluorobenzene (Surr)	93	56 <sub>-</sub> 136		05/31/24 02:14	1
Toluene-d8 (Surr)	100	78 - 122		05/31/24 02:14	1
Dibromofluoromethane (Surr)	105	73 - 120	c	05/31/24 02:14	1

### **Client Sample Results**

Client: Arcadis U.S., Inc. Job ID: 240-205039-1

Project/Site: Ford LTP

Date Received: 05/23/24 08:00

Dibromofluoromethane (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-235\_052124

Lab Sample ID: 240-205039-3 Date Collected: 05/21/24 14:00

**Matrix: Water** 

05/30/24 22:55

05/31/24 12:56

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.1	JB	2.0	0.86	ug/L			05/31/24 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 127			-		05/31/24 21:37	1
Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/30/24 22:55	1
cis-1,2-Dichloroethene	2.5		1.0	0.46	ug/L			05/30/24 22:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/30/24 22:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/30/24 22:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/30/24 22:55	1
Vinyl chloride	4.5		1.0	0.45	ug/L			05/31/24 12:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		62 - 137			_		05/30/24 22:55	1
1,2-Dichloroethane-d4 (Surr)	117		62 - 137					05/31/24 12:56	1
4-Bromofluorobenzene (Surr)	95		56 - 136					05/30/24 22:55	1
4-Bromofluorobenzene (Surr)	92		56 - 136					05/31/24 12:56	1
Toluene-d8 (Surr)	99		78 - 122					05/30/24 22:55	1
Toluene-d8 (Surr)	99		78 - 122					05/31/24 12:56	1

73 - 120

73 - 120

106

104

6/5/2024

### **Surrogate Summary**

Client: Arcadis U.S., Inc.

Job ID: 240-205039-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Su	rrogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-205039-1	TRIP BLANK_92	116	95	100	102
240-205039-2	MW-234_052124	120	93	100	105
240-205039-3	MW-235_052124	116	95	99	106
240-205039-3	MW-235_052124	117	92	99	104
240-205042-B-5 MS	Matrix Spike	109	109	103	102
240-205042-B-5 MSD	Matrix Spike Duplicate	107	109	103	102
240-205106-C-5 MS	Matrix Spike	107	110	103	102
240-205106-C-5 MSD	Matrix Spike Duplicate	107	110	103	102
LCS 240-614817/3	Lab Control Sample	108	110	102	102
LCS 240-614997/4	Lab Control Sample	106	109	103	102
MB 240-614817/5	Method Blank	114	97	101	102
MB 240-614997/6	Method Blank	116	96	99	103

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)	
240-205035-A-2 MS	Matrix Spike	102	
240-205035-A-2 MSD	Matrix Spike Duplicate	102	
240-205039-2	MW-234_052124	104	
240-205039-3	MW-235_052124	103	
LCS 240-615070/4	Lab Control Sample	106	
MB 240-615070/6	Method Blank	106	
Surrogate Legend			
DCA = 1,2-Dichloroetha	ne-d4 (Surr)		

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Page 12 of 23

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Client: Arcadis U.S., Inc. Job ID: 240-205039-1 Project/Site: Ford LTP

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

Lab Sample ID: MB 240-614817/5

**Matrix: Water** 

Analysis Batch: 614817

Client Sample ID: Method Blank

**Prep Type: Total/NA** 

l		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			05/30/24 17:56	1
I	cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/30/24 17:56	1
	Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/30/24 17:56	1
I	trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/30/24 17:56	1
I	Trichloroethene	1.0	U	1.0	0.44	ug/L			05/30/24 17:56	1
	Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/30/24 17:56	1
ı										

		MB	MB					
	Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	114		62 - 137	_		05/30/24 17:56	1
	4-Bromofluorobenzene (Surr)	97		56 - 136			05/30/24 17:56	1
	Toluene-d8 (Surr)	101		78 - 122			05/30/24 17:56	1
L	Dibromofluoromethane (Surr)	102		73 - 120			05/30/24 17:56	1

Lab Sample ID: LCS 240-614817/3

**Matrix: Water** 

Analysis Batch: 614817

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	27.5		ug/L		110	63 - 134	
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	77 - 123	
Tetrachloroethene	25.0	24.8		ug/L		99	76 - 123	
trans-1,2-Dichloroethene	25.0	25.6		ug/L		103	75 - 124	
Trichloroethene	25.0	25.1		ug/L		100	70 - 122	
Vinyl chloride	12.5	9.10		ug/L		73	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		62 - 137
4-Bromofluorobenzene (Surr)	110		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

Lab Sample ID: 240-205042-B-5 MS

**Matrix: Water** 

Analysis Batch: 614817

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U F2	25.0	25.7		ug/L		103	56 - 135	
cis-1,2-Dichloroethene	1.0	U F2	25.0	23.8		ug/L		95	66 - 128	
Tetrachloroethene	1.0	U F2	25.0	23.2		ug/L		93	62 - 131	
trans-1,2-Dichloroethene	1.0	U F2	25.0	23.8		ug/L		95	56 - 136	
Trichloroethene	1.0	U F2	25.0	22.2		ug/L		89	61 - 124	
Vinyl chloride	1.0	U F2	12.5	9.88		ug/L		79	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		62 - 137
4-Bromofluorobenzene (Surr)	109		56 - 136
Toluene-d8 (Surr)	103		78 - 122

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Page 13 of 23

Client: Arcadis U.S., Inc. Job ID: 240-205039-1

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

Lab Sample ID: 240-205042-B-5 MS

**Matrix: Water** 

Analysis Batch: 614817

Dibromofluoromethane (Surr)

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS Surrogate

%Recovery Qualifier Limits 102 73 - 120

Lab Sample ID: 240-205042-B-5 MSD

**Matrix: Water** 

Analysis Batch: 614817

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

MSD MSD %Rec RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 1,1-Dichloroethene 1.0 U F2 25.0 19.1 F2 ug/L 76 56 - 135 29 26 17.6 F2 cis-1,2-Dichloroethene 1.0 U F2 25.0 71 66 - 128 30 ug/L 14 Tetrachloroethene 1.0 U F2 25.0 17.3 F2 ug/L 69 62 - 131 29 20 trans-1,2-Dichloroethene 72 1.0 U F2 25.0 17.9 F2 ug/L 56 - 136 29 15 Trichloroethene 1.0 U F2 25.0 16.9 F2 ug/L 67 61 - 124 27 15 1.0 U F2 Vinyl chloride 12.5 5.62 F2 ug/L 43 - 157 55 24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		62 - 137
4-Bromofluorobenzene (Surr)	109		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 614997

**Matrix: Water** 

Lab Sample ID: MB 240-614997/6

	INID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/31/24 10:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/31/24 10:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 10:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/31/24 10:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 10:26	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/31/24 10:26	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		62 - 137		05/31/24 10:26	1
4-Bromofluorobenzene (Surr)	96		56 - 136		05/31/24 10:26	1
Toluene-d8 (Surr)	99		78 - 122		05/31/24 10:26	1
Dibromofluoromethane (Surr)	103		73 - 120		05/31/24 10:26	1

Lab Sample ID: LCS 240-614997/4

**Matrix: Water** 

Analysis Batch: 614997

**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	26.9		ug/L		108	63 - 134	
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	77 - 123	
Tetrachloroethene	25.0	25.5		ug/L		102	76 - 123	
trans-1,2-Dichloroethene	25.0	25.5		ug/L		102	75 - 124	
Trichloroethene	25.0	24.8		ug/L		99	70 - 122	

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Page 14 of 23

6/5/2024

Client: Arcadis U.S., Inc. Job ID: 240-205039-1

Project/Site: Ford LTP

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

Lab Sample ID: LCS 240-614997/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 614997

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Vinyl chloride	12.5	9.60		ug/L		77	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		62 _ 137
4-Bromofluorobenzene (Surr)	109		56 <sub>-</sub> 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

Lab Sample ID: 240-205106-C-5 MS

**Matrix: Water** 

Analysis Batch: 614997

	Sample	Sample	Spike	MS	MS			%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	%Rec	Limits	
Vinyl chloride	1.0	U	12.5	9.36		ug/L	75	43 - 157	

	MS	MS		
Surrogate	%Recovery	Qualifier	Limits	
1,2-Dichloroethane-d4 (Surr)	107		62 - 137	
4-Bromofluorobenzene (Surr)	110		56 <sub>-</sub> 136	
Toluene-d8 (Surr)	103		78 - 122	
Dibromofluoromethane (Surr)	102		73 - 120	

Lab Sample ID: 240-205106-C-5 MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Water** 

Analysis Batch: 614997

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Vinyl chloride	1.0	U	12.5	9.76		ug/L		78	43 - 157	4	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		62 - 137
4-Bromofluorobenzene (Surr)	110		56 <sub>-</sub> 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

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

106

Lab Sample ID: MB 240-615070/6 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 615070

1,2-Dichloroethane-d4 (Surr)

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.66	J	2.0	0.86	ug/L			05/31/24 13:58	1
	MB	МВ							
	IVID	IVID							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

68 - 127

**Eurofins Cleveland** 

6/5/2024

05/31/24 13:58

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Prep Type: Total/NA

### QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-205039-1

Project/Site: Ford LTP

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

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Analysis Batch: 615070

**Matrix: Water** 

Lab Sample ID: LCS 240-615070/4

Lab Sample ID: 240-205035-A-2 MS

Spike LCS LCS Result Qualifier Analyte Added Unit %Rec Limits 1,4-Dioxane 10.0 11.9 ug/L 119 75 - 121

%Rec

LCS LCS

Surrogate %Recovery Qualifier Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 106

Client Sample ID: Matrix Spike

Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 615070

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 3.3 B 10.0 13.3 ug/L 100 20 - 180

MS MS

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

Lab Sample ID: 240-205035-A-2 MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Water** Prep Type: Total/NA

Analysis Batch: 615070

RPD Sample Sample Spike MSD MSD %Rec Qualifier Added Qualifier Analyte Result Result Unit %Rec Limits **RPD** Limit 1,4-Dioxane 3.3 B 10.0 13.4 ug/L 101 20 - 180 20

MSD MSD Surrogate %Recovery Qualifier Limits

1,2-Dichloroethane-d4 (Surr) 102 68 - 127

### **QC Association Summary**

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-205039-1

#### **GC/MS VOA**

#### Analysis Batch: 614817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-205039-1	TRIP BLANK_92	Total/NA	Water	8260D	
240-205039-2	MW-234_052124	Total/NA	Water	8260D	
240-205039-3	MW-235_052124	Total/NA	Water	8260D	
MB 240-614817/5	Method Blank	Total/NA	Water	8260D	
LCS 240-614817/3	Lab Control Sample	Total/NA	Water	8260D	
240-205042-B-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-205042-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

#### Analysis Batch: 614997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
240-205039-3	MW-235_052124	Total/NA	Water	8260D	
MB 240-614997/6	Method Blank	Total/NA	Water	8260D	
LCS 240-614997/4	Lab Control Sample	Total/NA	Water	8260D	
240-205106-C-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-205106-C-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

#### Analysis Batch: 615070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-205039-2	MW-234_052124	Total/NA	Water	8260D SIM	
240-205039-3	MW-235_052124	Total/NA	Water	8260D SIM	
MB 240-615070/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-615070/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-205035-A-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-205035-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

**Eurofins Cleveland** 

#### Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-205039-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_92

Lab Sample ID: 240-205039-1 Date Collected: 05/21/24 00:00

**Matrix: Water** 

**Matrix: Water** 

Prepared

Date Received: 05/23/24 08:00 Batch Batch Dilution Batch

Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed 8260D EET CLE 05/30/24 20:00 Total/NA Analysis 614817 TJL2

Client Sample ID: MW-234\_052124 Lab Sample ID: 240-205039-2

Date Collected: 05/21/24 12:25 Date Received: 05/23/24 08:00

Batch Batch Dilution Batch Prepared Prep Type Method Run Factor Number Analyst or Analyzed Туре Lab Total/NA 8260D TJL2 EET CLE 05/31/24 02:14 Analysis 614817 Total/NA 8260D SIM 615070 MDH 05/31/24 21:13 Analysis 1 **EET CLE** 

Client Sample ID: MW-235\_052124 Lab Sample ID: 240-205039-3

Date Collected: 05/21/24 14:00 **Matrix: Water** 

Date Received: 05/23/24 08:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** or Analyzed Lab 05/30/24 22:55 Total/NA 8260D TJL2 Analysis 614817 **EET CLE** Total/NA 8260D 05/31/24 12:56 Analysis 614997 TJL2 EET CLE 8260D SIM Total/NA Analysis 615070 MDH **EET CLE** 05/31/24 21:37

**Laboratory References:** 

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

**Eurofins Cleveland** 

Page 18 of 23

### **Accreditation/Certification Summary**

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-205039-1

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	<b>Expiration Date</b>
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	06-30-24
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

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### Chain of Custody Record

Te	esta	An	ne	ric	a
THE	LEADER	IN ENVI	CONMEN	TAL TEST	ING

Test	America Labora	tory location:	Brighton	10448 (	Citation D	rive,	Suite 2	200	/ Bright	on, MI 4	8116	/ 810	-229-2	2763									THE	EADER IN ENVI	ONMENTA	L TESTIN
Client Contact	Regulat	ory program:	-	DW		NP:	DES		- R	CRA	Г	Othe	er													
Company Name: Areadis	Client Project l	Sir	Site Contact: Christina Weaver									Lab Costact: Mike DelMosico									TestAmerica Laboratories, Inc.					
Address: 28550 Cabot Drive, Suite 500																				1						
City/State/Zip: Novi, MI. 48377	Telephone: 248	Te	Telephone: 248-994-2240								Telephone: 330-497-9396										1 of 1 COCs					
Phone: 248-994-2240	Email: kristoff		Auglysis Turnground Time							Analyses										For lab use only						
	Sampler Name	T.A	AT if di	fferent from below			_												w	alk-in client						
Project Name: Ford LTP On-Site	Garre Method of Skip		10 day		3 weeks av															L	b sampling					
Project Number: 301 67538,401.03	Method of Ship	ment/Carrier:					•		1 week		Ê	Ö			8				≅ ⊠							
PO # 301 67538.401.03	Shipping/Track	cing No:							l day		Sample (Y / N)	Composite=C/Grab=G		009	Trans-1,2-DCE 82600			Vinyl Chloride 82600	82 60D SIM				Jo	WSDG No:	_	
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Sample Identification	Sample Date	Sample Time	Air Aqsess	Selid	H2804	HNO3	HC	NAOH	ZnAd NaOH	Other:	Filtered	Com	1,1-DCE 82600	cis-12-DCE 82600	rans	PCE 82600	TOE	/inyl	1,4-Dioxane					Special I		
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MW-234-052124	5/21/24	1225	6				6				N	G	X	×	X	×	×	×	X					3 VOAs fo 3 VOAs fo		
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Possible Hazard Identification						5	l Di		1/16	1		1 2 2 2				-37-										
Non-Hazard lammable in Irrital	it Poisc	on B	Jaknowa			Samp			l (A fee		Dispo			e2 3 ve		chive !		30 1 0	Mo							
Special Instructions/QC Requirements & Comments:					•																					
Submit all results through Cadena at jtomalia@cadenaco Level IV Reporting requested.	.com. Cadena #E	203728																								
Relinquished by. Garrett Link Affaithfur	Cornpany: ARCADI	5	Date/Ti	1/24	16	41	2	Rece	eived by	colo	) <	to	rong	L		1	Compa	iny:	DIS				D	121/24	16	40
Relinquished by John Melety	Company		Date/TI	me: -2/2	1 14	140	)	_	etred by	A	7					1	omp.	11/1	7				D	Time 5 22/24	14	40
Relinquished by	Company		Date/Ti	12u	,	50		Rec	eivedia	E S S	tory b	A P	16	24	R	1	comp		31	ΝC			D	te/Title: 5 - 23	24	056

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Ex: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Counter	er Received on 5.23 24 Opened on 5.23.24	it Arcadis Site Name LTP	oinis = Gleveland Sample Receipt Form/Narrative Lo
urier Other	ļ 		102111#
er	(me)	Cooler unpacked by:	BOSOR

Bar

Cher

C00] Receipt After-hours Drop-off Date/Time Eurofins Cooler# Packing material used ( Bubble Wrap Foam Box Foam Chent Cooler Plastic Bag Box None Storage Location Other Other

COOLANT Wet Ice Blue Ice Dry Ice Water

Cooler temperature upon receipt IR GUN# <u>G</u> 0.0 <u>'</u>Ĉ Observed Cooler Temp. See Multiple Cooler Form Corrected Cooler Temp Tests that are not checked for pH by

'ര്

Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Were the seals on the outside of the cooler(s) signed & dated? AN ΝA

2

-Were tamper/custody seals intact and uncompromised? Shippers' packing slip attached to the cooler(s)?

Did custody papers accompany the sample(s)?

Ç Were the custody papers relinquished & signed in the appropriate place?

0 Was/were the person(s) who collected the samples clearly identified on the COC?

Did all bottles arrive in good condition (Unbroken)?

9 % Could all bottle labels (ID/Date/Time) be reconciled with the COC?
For each sample, does the COC specify preservatives (YN), # of containers (YN), an

sample type of grab/comp(Y/x)?

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TOC **VOAs** 

Oil and Grease

Receiving.

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30

Were correct bottle(s) used for the test(s) indicated?

Sufficient quantity received to perform indicated analyses?

Are these work share samples and all listed on the COC?

If yes, Questions 13-17 have been checked at the originating laboratory

13 Were all preserved sample(s) at the correct pH upon receipt?

14 Were VOAs on the COC?

Was a LL Hg or Me Hg trip blank present?

Contacted PM Date Ą

Were air bubbles >6 mm in any VOA vials? Larger than this Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 604130 F

via Verbal Voice Mail Other

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by

19 SAMPLE CONDITION

Sample(s) Sample(s) Sample(s) were received after the recommended holding time had expired. were received with bubble >6 mm in diameter (Notify PM) were received in a broken container

20 SAMPLE PRESERVATION

Sample(s) \_\_\_\_\_ Time preserved. Preservative(s) added/Lot number(s) were further preserved in the laboratory

VOA Sample Preservation -Date/Time VOAs Frozen

ИЛ-NC-099-041724 Cooler Receipt Form

No (X)

pH Stnp Lo# HC439975

PE S

E)Z

	EC Client Box Other	FC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Olher	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Bax Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client box Other	EC Client Box Ofher	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	FC Client Box Other	Ed Client Box Other	EC Client Box Other	Cooler Description (Circle)
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									William Control of the Control of th										A CANADA MARIA														/ ×	3.4	Euronns = Cleveland sample :Receipt Multiple Cooler :Form   IR Gun # Observed Corrected   Clircle Temp °C Temp °C
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Login#.

5/23/2024

**Login Container Summary Report** 

240-205039

Che Temperature readings

Page 23 of 23 6/5/2024

### DATA VERIFICATION REPORT



June 05, 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: 205039-1 Sample date: 2024-05-21

Report received by CADENA: 2024-06-05

Initial Data Verification completed by CADENA: 2024-06-05

Number of Samples:3 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:

MBK - GCMS VOC SIM QC batch method blank had a detection below the RL for the following analyte: 1,4-DIOXANE. The following client sample results should be considered to be non-detect at the concentration reported and qualified with UB flags: -002, -003.

GCMS VOC QC batch MS/MSD recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

GCMS VOC QC batch CCV 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 <a href="http://clms.cadenaco.com/index.cfm">http://clms.cadenaco.com/index.cfm</a>.

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.

# **Qualified Results Summary**

**CADENA Project ID:** E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 205039-1

Sample Name:MW-234\_052124MW-235\_052124Lab Sample ID:24020503922402050393Sample Date:5/21/20245/21/2024

Report Valid Report Valid
Analyte Cas No. Result Limit Units Qualifier Result Limit Units Qualifier

**GC/MS VOC** 

OSW-8260DSIM

1,4-Dioxane 123-91-1 1.0 2.0 ug/l UB 1.1 2.0 ug/l UB

# **Analytical Results Summary**

**CADENA Project ID:** E203728

**Laboratory:** Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 205039-1

		TRIP BL	ANK_92			MW-23	4_05212	4		MW-235				
		240205	0391			240205	0392			240205				
		Sample Date:	5/21/20	24			5/21/20	24			5/21/2024			
				Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC														
OSW-8260	<u>)D</u>													
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		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		2.5	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		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		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		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		4.5	1.0	ug/l	
OSW-8260	<u>DDSIM</u>													
	1,4-Dioxane	123-91-1					1.0	2.0	ug/l	UB	1.1	2.0	ug/l	UB