PREPARED FOR

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

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JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-200189-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

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Job Notes

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Authorization

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Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-200189-1

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Definitions/Glossary

Job ID: 240-200189-1 Client: Arcadis U.S., Inc.

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA Qualifier **Qualifier Description**

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

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Case Narrative

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

Job ID: 240-200189-1 Eurofins Cleveland

Job Narrative 240-200189-1

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 2/29/2024 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 2.8°C.

GC/MS VOA

Method 8260D: The matrix spike/matrix spike duplicate (MS/MSD) for samples TRIP BLANK_107 (240-200189-1), MW-79SR_022724 (240-200189-2), DUP-07 (240-200189-3) and MW-79D_022724 (240-200189-4) was not reported, because the analyte list for these samples did not match the analyte list for the MS/MSD parent sample.

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: 240-200189-1

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Method Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200189-1

Project/Site: Ford LTP - Off Site

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

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Sample Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-200189-1

Lab Sample ID Client Sample ID		Matrix	Collected	Received
240-200189-1	TRIP BLANK_107	Water	02/27/24 00:00	02/29/24 08:00
240-200189-2	MW-79SR_022724	Water	02/27/24 11:00	02/29/24 08:00
240-200189-3	DUP-07	Water	02/27/24 00:00	02/29/24 08:00
240-200189-4	MW-79D 022724	Water	02/27/24 12:22	02/29/24 08:00

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112

Detection Summary

Client: Arcadis U.S., Inc. Job ID: 240-200189-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_107 Lab Sample ID: 240-200189-1

No Detections.

No Detections.

Client Sample ID: DUP-07 Lab Sample ID: 240-200189-3

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Vinyl chloride	0.49	1.0	0.45 μα/	1 82600	Total/NA

Client Sample ID: MW-79D_022724 Lab Sample ID: 240-200189-4

Analyte	Result Q	ualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.4		1.0	0.45	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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Client: Arcadis U.S., Inc. Job ID: 240-200189-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_107

Lab Sample ID: 240-200189-1 Date Collected: 02/27/24 00:00

Matrix: Water

Date Received: 02/29/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/04/24 18:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 18:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 18:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 18:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 18:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137			_		03/04/24 18:15	1
4-Bromofluorobenzene (Surr)	96		56 ₋ 136					03/04/24 18:15	1
Toluene-d8 (Surr)	98		78 - 122					03/04/24 18:15	1
Dibromofluoromethane (Surr)	89		73 - 120					03/04/24 18:15	1

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Client: Arcadis U.S., Inc. Job ID: 240-200189-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-79SR_022724

Date Collected: 02/27/24 11:00

107

91

Matrix: Water

Lab Sample ID: 240-200189-2

03/04/24 21:37

03/04/24 21:37

Date	Received:	02/29/24	08:00

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Method: SW846 8260D SIM - \	-		(GC/IVIS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/05/24 15:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		68 - 127			_		03/05/24 15:19	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		68 - 127					03/05/24 15:19	1
- Method: SW846 8260D - Volat	ile Organic Comp	ounds by C	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/04/24 21:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 21:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 21:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 21:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 21:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			_		03/04/24 21:37	1
4-Bromofluorobenzene (Surr)	101		56 ₋ 136					03/04/24 21:37	1

78 - 122

73 - 120

Client: Arcadis U.S., Inc. Job ID: 240-200189-1

Project/Site: Ford LTP - Off Site

Client Sample ID: DUP-07

Lab Sample ID: 240-200189-3 Date Collected: 02/27/24 00:00 **Matrix: Water**

Date Received: 02/29/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/05/24 23:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)	90		68 - 127			_		03/05/24 23:27	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/04/24 22:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 22:02	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 22:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 22:02	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 22:02	1
Vinyl chloride	0.49	J	1.0	0.45	ug/L			03/04/24 22:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4.0 Diablamathama d4.(O.m.)			- 60 407			_		00/04/04 00:00	

Surrogate	%Recovery	Qualifier	Limits	Prepared	d Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137		03/04/24 22:02	1
4-Bromofluorobenzene (Surr)	86		56 - 136		03/04/24 22:02	1
Toluene-d8 (Surr)	97		78 - 122		03/04/24 22:02	1
Dibromofluoromethane (Surr)	96		73 - 120		03/04/24 22:02	1

Client: Arcadis U.S., Inc. Job ID: 240-200189-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-79D_022724

Date Collected: 02/27/24 12:22 Date Received: 02/29/24 08:00

Tetrachloroethene

Dibromofluoromethane (Surr)

Lab Sample ID: 240-200189-4

03/04/24 22:27

03/04/24 22:27

Matrix: Water

Method: SW846 8260D SIM - V	olatile Organic C	ompounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/05/24 23:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		68 - 127					03/05/24 23:50	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/04/24 22:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 22:27	1

1.0

0.44 ug/L

trans-1,2-Dichloroethene	1.0 U	1.0	0.51 ug/L		03/04/24 22:27	1
Trichloroethene	1.0 U	1.0	0.44 ug/L		03/04/24 22:27	1
Vinyl chloride	1.4	1.0	0.45 ug/L		03/04/24 22:27	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109	62 - 137			03/04/24 22:27	1
4-Bromofluorobenzene (Surr)	90	56 ₋ 136			03/04/24 22:27	1
Toluene-d8 (Surr)	100	78 ₋ 122			03/04/24 22:27	1

73 - 120

1.0 U

101

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-200189-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance						
		DCA	BFB	TOL	DBFM			
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)			
240-200189-1	TRIP BLANK_107	95	96	98	89			
240-200189-2	MW-79SR_022724	101	101	107	91			
240-200189-3	DUP-07	104	86	97	96			
240-200189-4	MW-79D_022724	109	90	100	101			
LCS 240-604901/5	Lab Control Sample	107	107	105	103			
MB 240-604901/8	Method Blank	95	99	91	87			

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	
b Sample ID	Client Sample ID	(68-127)	
-200101-E-2 MS	Matrix Spike	102	
-200101-E-2 MSD	Matrix Spike Duplicate	106	
0-200189-2	MW-79SR_022724	96	
0-200189-3	DUP-07	90	
0-200189-4	MW-79D_022724	96	
0-246731-A-11 MS	Matrix Spike	92	
)-246731-A-11 MSD	Matrix Spike Duplicate	97	
3 240-604941/4	Lab Control Sample	100	
S 240-605036/4	Lab Control Sample	115	
240-604941/7	Method Blank	112	
3 240-605036/6	Method Blank	97	

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

Client: Arcadis U.S., Inc. Job ID: 240-200189-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-604901/8

Matrix: Water

Analysis Batch: 604901

Client Sa	mple ID:	Meth	od Blank
	Prep '	Type:	Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/04/24 17:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 17:50	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 17:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 17:50	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 17:50	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 17:50	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 03/04/24 17:50 95 4-Bromofluorobenzene (Surr) 99 56 - 136 03/04/24 17:50 03/04/24 17:50 Toluene-d8 (Surr) 91 78 - 122 Dibromofluoromethane (Surr) 87 73 - 120 03/04/24 17:50

Lab Sample ID: LCS 240-604901/5

Matrix: Water

Analysis Batch: 604901

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Бріке	LUS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	24.4		ug/L		98	63 - 134	
cis-1,2-Dichloroethene	25.0	26.4		ug/L		106	77 - 123	
Tetrachloroethene	25.0	25.5		ug/L		102	76 - 123	
trans-1,2-Dichloroethene	25.0	27.6		ug/L		110	75 - 124	
Trichloroethene	25.0	29.1		ug/L		116	70 - 122	
Vinyl chloride	12.5	9.58		ug/L		77	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 107 62 - 137 4-Bromofluorobenzene (Surr) 107 56 - 136 Toluene-d8 (Surr) 105 78 - 122 73 - 120 Dibromofluoromethane (Surr) 103

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

Lab Sample ID: MB 240-604941/7	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 604941									
	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			03/05/24 09:45	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)	112		68 - 127			_		03/05/24 09:45	1

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Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-200189-1

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

Lab Sample ID: LCS 240-604941/4

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

Matrix: Water

Analysis Batch: 604941

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	10.0	9.12		ug/L		91	75 - 121	

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 100 68 - 127

Lab Sample ID: 240-200101-E-2 MS Client Sample ID: Matrix Spike Pren Type: Total/NA

Matrix: Water

Matrix. Water				Fieb Type. Totalina
Analysis Batch: 604941				
	Sample Sample	Snike	MS MS	%Rec

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 2.0 U 10.0 8.46 85 ug/L 20 - 180

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

Lab Sample ID: 240-200101-E-2 MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Analysis Batch: 604941

Prep Type: Total/NA

MSD MSD

Spike %Rec Sample Sample Qualifier Added Analyte Result Result Qualifier Unit D %Rec Limits **RPD** Limit 1,4-Dioxane 2.0 U 10.0 9.04 90 20 - 180 20 ug/L

MSD MSD

мв мв

%Recovery Surrogate Qualifier Limits

1,2-Dichloroethane-d4 (Surr) 106 68 - 127

Lab Sample ID: MB 240-605036/6 Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA Analysis Batch: 605036

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 2.0 U 2.0 03/05/24 21:51 1,4-Dioxane 0.86 ug/L

MB MB

%Recovery Surrogate Qualifier Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 97 68 - 127 03/05/24 21:51

Lab Sample ID: LCS 240-605036/4

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 605036

Matrix: Water

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 10.7 ug/L 107 75 - 121

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 115 68 - 127

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RPD

Dil Fac

QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200189-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 500-246731-A-11 MS Client Sample ID: Matrix Spike **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 605036

Sample	Sample	Spike	MS	MS				%Rec	
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
3.7		10.0	13.4		ug/L		97	20 - 180	
MS	MS								
%Recovery	Qualifier	Limits							
92		68 - 127	-						
	Result 3.7 MS %Recovery	MS MS %Recovery Qualifier	Result Qualifier Added 3.7 10.0 MS MS %Recovery Qualifier Limits	Result Qualifier Added Result 3.7 10.0 13.4 MS MS %Recovery Qualifier Limits	Result Qualifier Added Result Qualifier 3.7 10.0 13.4 Qualifier MS MS %Recovery Qualifier Limits	Result Qualifier Added Result Qualifier Unit 3.7 10.0 13.4 ug/L ### WS ### Recovery Qualifier Limits	Result Qualifier Added Result Qualifier Unit D 3.7 10.0 13.4 Qualifier Unit Ug/L MS MS %Recovery Qualifier Limits	Result Qualifier Added Result Qualifier Unit D %Rec 3.7 10.0 13.4 ug/L 97 **Recovery Qualifier Limits	Result Qualifier Added Result Qualifier Unit D %Rec Limits 3.7 10.0 13.4 ug/L pg/L 97 20 - 180 MS %Recovery Qualifier Limits

Client Sample ID: Matrix Spike Duplicate Lab Sample ID: 500-246731-A-11 MSD **Prep Type: Total/NA**

Matrix: Water Analysis Batch: 605036

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 20

1,4-Dioxane 3.7 10.0 12.5 ug/L 88 20 - 180 MSD MSD Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 97 68 - 127

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QC Association Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200189-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 604901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
240-200189-1	TRIP BLANK_107	Total/NA	Water	8260D	
240-200189-2	MW-79SR_022724	Total/NA	Water	8260D	
240-200189-3	DUP-07	Total/NA	Water	8260D	
240-200189-4	MW-79D_022724	Total/NA	Water	8260D	
MB 240-604901/8	Method Blank	Total/NA	Water	8260D	
LCS 240-604901/5	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 604941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200189-2	MW-79SR_022724	Total/NA	Water	8260D SIM	
MB 240-604941/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-604941/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-200101-E-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-200101-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 605036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200189-3	DUP-07	Total/NA	Water	8260D SIM	
240-200189-4	MW-79D_022724	Total/NA	Water	8260D SIM	
MB 240-605036/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-605036/4	Lab Control Sample	Total/NA	Water	8260D SIM	
500-246731-A-11 MS	Matrix Spike	Total/NA	Water	8260D SIM	
500-246731-A-11 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-200189-1

Project/Site: Ford LTP - Off Site

Date Received: 02/29/24 08:00

Client Sample ID: TRIP BLANK_107

Lab Sample ID: 240-200189-1 Date Collected: 02/27/24 00:00 **Matrix: Water**

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 03/04/24 18:15 Total/NA Analysis 8260D 604901 CDG EET CLE

Client Sample ID: MW-79SR_022724 Lab Sample ID: 240-200189-2

Date Collected: 02/27/24 11:00 **Matrix: Water**

Date Received: 02/29/24 08:00

Batch Batch Dilution Batch Prepared Prep Type Method Run Factor Number Analyst or Analyzed Туре Lab Total/NA 8260D CDG EET CLE 03/04/24 21:37 Analysis 604901 Total/NA 8260D SIM 604941 MDH **EET CLE** 03/05/24 15:19 Analysis 1

Client Sample ID: DUP-07 Lab Sample ID: 240-200189-3

Date Collected: 02/27/24 00:00 **Matrix: Water**

Date Received: 02/29/24 08:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** or Analyzed Lab 03/04/24 22:02 Total/NA 8260D CDG Analysis 604901 **EET CLE** 605036 MDH 03/05/24 23:27 Total/NA Analysis 8260D SIM EET CLE 1

Client Sample ID: MW-79D_022724 Lab Sample ID: 240-200189-4

Date Collected: 02/27/24 12:22 **Matrix: Water**

Date Received: 02/29/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	604901	CDG	EET CLE	03/04/24 22:27
Total/NA	Analysis	8260D SIM		1	605036	MDH	EET CLE	03/05/24 23:50

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. Job ID: 240-200189-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date		
California	State	2927	02-27-24 *		
Illinois	NELAP	200004	07-31-24		
Iowa	State	421	06-01-25		
Kentucky (WW)	State	KY98016	12-30-24		
Minnesota	NELAP	039-999-348	12-31-24		
New Jersey	NELAP	OH001	07-01-24		
New York	NELAP	10975	04-01-24		
Oregon	NELAP	4062	02-27-25		
Pennsylvania	NELAP	68-00340	08-31-24		
Texas	NELAP	T104704517-22-19	08-31-24		
USDA	US Federal Programs	P330-18-00281	01-05-27		
Virginia	NELAP	460175	09-14-24		
West Virginia DEP	State	210	12-31-24		

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

Chain of Custody Record

TestAmerica Laboratory location:	Brighton	0448 Citation Drive, Suite 200 / Brighton	n, MI 48116 / 810-229-2763

Test/	tn	ner	icc
THE LEADER IN	ENVIR	ONMENTA	A TESTINO

Client Contact	Regulat	ory program:			DW		L 1	IPDES	•	F	CRA		Ott	her									Tarthman	ica Laborato	ries Inc
Company Name: Arcadis	Client Project N	lanager: Kris	H Inske	у			Site C	ontact	t: Chr	istin a '	V eaver	,			Lab (Conta	et: MI	ke D el	Мопіс	0			COC Na	ita Laborato	163, 1116
Address: 28550 Cabot Drive, Sulte 500	Telephone: 248	-994-2240					Telep	hone:	248-9	94-224	0				Tele	ph on e:	: 330~	197-93	9ó						
City/State/Zip: Novi, Mil. 48377	Em all: kristoff						·			naroun			1							ses			For lab use	f 1 CO	Cs
Phone: 248-994-2240	Eni an: Kristoni	er.iiiii skey@ar	caws.c	JIII									Analyses												
Project Name: Ford LTP Off-Site	Sampler Name:		(~	tio	ν.Λ		TAT if different from below 3 weeks													Walk-in ch					
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Cooler Received on Cooler Receiv
Drop-off Date/Time Foam-Bbx Client Cooler Box
rial used. Bubble Wrap Foam Plastic Bag None NT Wetter Blue Ice Dry Ice Water None
1 Cooler temperature upon receipt CF °C) Observed Cooler Temp. °C Corrected Cooler Temp °C
If Yes Quantity Yes No dated? (LLHg/MeHg)? Yes Nd.
Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? Yes No
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
7 Did all bottles arrive in good condition (Unbroken)? 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? 9. For each sample, does the COC specify preservatives (WN), # of containers (WN), and sample type of grab/comp(WN)? 10. Were correct bottle(s) and for the traff(s) in the traff
11 Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? 15. Are these work share samples and all listed on the COC? 16. Are these work share samples and all listed on the COC? 17. Are these work share samples and all listed on the COC?
13 Were all preserved sample(s) at the correct pH upon receipt? Yes No No pH Strip Lot# HC316719 Were VOAs on the COC? Larger than this Ves No NA
Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # C
Contacted PM Date by via Verbal Voice Mail Other Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by
Sample(s) were received after the recommended holding time had expired Sample(s) were received after the recommended holding time had expired were received in a broken container Sample(c) were received with highly 56 mm in departs. Obside, may
20. SAMPLE PRESERVATION
Sample(s)were further preserved in the laboratory Time preservedPreservative(s) added/Lot number(s)were further preserved in the laboratory
VOA Sample Preservation Date/Time VOAs Frozen

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DATA VERIFICATION REPORT



March 07, 2024

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

CADENA project ID: E203631

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

Project number: 30167538.402.04

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

Laboratory submittal: 200189-1

Sample date: 2024-02-27

Report received by CADENA: 2024-03-06

Initial Data Verification completed by CADENA: 2024-03-07

Number of Samples:4 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.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

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: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 200189-1

		Sample Name:	TRIP BLA	P BLANK_107			MW-798	R_02272	24		DUP-07				MW-79D	_022724		
		Lab Sample ID:	2402001	1891			2402003	1892			2402001	1893			2402001	.894		
		Sample Date:	2/27/2024			2/27/2024					2/27/202	24		2/27/202	24			
				Report		Valid		Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC																		
OSW-826	60D																	
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		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		ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		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		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		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		0.49	1.0	ug/l	J	1.4	1.0	ug/l	
OSW-826	<u>SODSIM</u>																	
	1.4-Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l		ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-200189-1

CADENA Verification Report: 2024-03-07

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53348R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200189-1 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	IVIALITIX	Collection Date	Parent Sample	VOC	VOC SIM		
TRIP BLANK_107	240-200189-1	Water	02/27/2024		Х			
MW-79SR_022724	240-200189-2	Water	02/27/2024		Х	X		
DUP-07	240-200189-3	Water	02/27/2024	MW-79D_022724	Х	Х		
MW-79D_022724	240-200189-4	Water	02/27/2024		Х	Х		

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfori Accep		Not Required
	No	Yes	No	Yes	rrequired
Sample receipt condition		X		X	
2. 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.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-79D_022724 / DUP-07	Vinyl chloride	1.4	0.49 J	AC

Note

AC - Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

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	oorted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation					
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD		Х		Х	
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		Х		Х	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Dilip Kumar

SIGNATURE:

DATE: March 21, 2024

PEER REVIEW: Andrew Korycinski

DATE: April 2, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

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

Client Contact Company Name: Arcadls	Regulat	ory program:	:		DW	-	NPD	ES	ſ	RCF	RA	-	Othe	r										TestAmerica Laboratories, Inc
	Client Project N	1anager: Kris	H Insk	ey		Site	Cont	act: C	hristi	ina We	av er				Lab (ontac	t: MIL	e D el	Мопіс	0				COC Not
Address: 28550 Cabot Drive, Sulte 500	Telephone: 248	-994-2240				Tele	Telephone: 248-994-2240				Telephone: 330-497-9396													
City/State/Zip: Novi, MI, 48377							Analysis Turnaround Time				Analyses						1 of 1 COCs For lab use only							
Phone: 248-994-2240	Em all: kristoff	er.ninskey@ar	caais.	.com								1										_		
Project Name: Ford LTP Off-Site	Sampler Name		(~	منام	20.0	TAI	T iT diffe	стень Гто		w weeks														Walk-in client
Project Number: 30167538,402,04	Method of Ship	hebecca	C	ווכנ	gan	- 1	l0 day	/		weeks week			-							ı				Lab sampling
°O # 30167538.402.04						4		į		days		Z/N			٩	82 60D			82 60D	IS Q				Job/SDG Na
0 # 3010/338.402.04	Shipping/Track	ing No:				_						Sample (Y/N)	5/3	30D	82600	SE SK			83	8260				Jours Journal 1
Sample I dentification	Sample Date	Sample Time	Air		Seliment Solid	H2504			Z PAO	NioH Unpres	Other:	Filtered Sau	Composite=C/Ghab=G	1,1-DCE 8260D	as-1,2-DCE	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride	1,4-Dioxane 8260D SIM				Sample Specific Notes / Special Instructions:
TRIP BLANK_ 177				1				1				N	G	Х	Х	Х	X	Х	Х					1 Trip Blank
MW-79SR_022724	2/27/24	1160		6				6				N	6	χ	X	X	X	X	X	X				3 VOAs for 8260D 3 VOAs for 8260D SIM
0UP-07	2/27/24			O				6				N	G	χ	X	X	X	X	X	X				
MW-79D_022724	2/27/24	1222		V				6				N	G	χ	X	χ	X	X	X	χ				
			240	0-200	189 Chain																		N	CHIGAN
						1	stod	У																190
																						٠		
Possible Hazard Identification Non-Hazard Fammable S	in Irritant Poiso	on B [Unk	nown		S		e Disp Return			may be ✓ [sed If sal By		les ar		ned la rchive		han 1) onths			
pecial Instructions/QC Requirements & Comments: DOSTON FOR FOW Submit all results through Cadena at Jomalia@ca Level IV Reporting requested.						•			,			·	•											
Relinquished by: Reberoa Costian "	Company: Arc	adis			27/24	17	35		ecei v	1	Vgu	i (Coll) 5	Store	ROL	,	Comp	F	fra	zdi	S		Date Time: 2/27/24 1735
elinqui shed by:	Company:	ds		Date	28/24	09	30	2		ed by:	d	I.	J.	3	-1			Comp	E	2	TK			Dale Time:
Relinquished by:	Company:	-		Daie/1	1 me: 28/24	0.	(17)	4	ecel	ed in L			у: 					2	gany:	UN				Date Time: 24 8 Ar

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Client: Arcadis U.S., Inc. Job ID: 240-200189-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_107

Lab Sample ID: 240-200189-1 Date Collected: 02/27/24 00:00 **Matrix: Water**

Date Received: 02/29/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/04/24 18:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 18:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 18:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 18:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 18:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 18:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137			-		03/04/24 18:15	1
4-Bromofluorobenzene (Surr)	96		56 - 136					03/04/24 18:15	1
Toluene-d8 (Surr)	98		78 - 122					03/04/24 18:15	1
Dibromofluoromethane (Surr)	89		73 - 120					03/04/24 18:15	1

Client Sample ID: MW-79SR_022724

Date Collected: 02/27/24 11:00

Date Received: 02/29/24 08:00

1,2-Dichloroethane-d4 (Surr)

022724	Lab Sample ID: 240-200189-2
	Matrix: Water

Method: SW846 8260D SIM - 1	Volatile Orga	anic Comp	ounds (GC/N	1S)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/05/24 15:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		68 - 127			•		03/05/24 15:19	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/04/24 21:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 21:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 21:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 21:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 21:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		03/04/24 21:37	1
4-Bromofluorobenzene (Surr)	101		56 - 136		03/04/24 21:37	1
Toluene-d8 (Surr)	107		78 - 122		03/04/24 21:37	1
Dibromofluoromethane (Surr)	91		73 - 120		03/04/24 21:37	1

Client Sample ID: DUP-07 Lab Sample ID: 240-200189-3 Date Collected: 02/27/24 00:00 **Matrix: Water** Date Received: 02/29/24 08:00

			ounds (GC/M	-,					
Analyte Re	esult C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0 L	J	2.0	0.86	ug/L			03/05/24 23:27	1

68 - 127

03/05/24 23:27

Client: Arcadis U.S., Inc. Job ID: 240-200189-1

Project/Site: Ford LTP - Off Site

Client Sample ID: DUP-07 Lab Sample ID: 240-200189-3

Date Collected: 02/27/24 00:00 Matrix: Water Date Received: 02/29/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/04/24 22:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 22:02	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 22:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 22:02	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 22:02	1
Vinyl chloride	0.49	J	1.0	0.45	ug/L			03/04/24 22:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137					03/04/24 22:02	1
4-Bromofluorobenzene (Surr)	86		56 ₋ 136					03/04/24 22:02	1
Toluene-d8 (Surr)	97		78 - 122					03/04/24 22:02	1
Dibromofluoromethane (Surr)	96		73 - 120					03/04/24 22:02	1

Date Collected: 02/27/24 12:22 Date Received: 02/29/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/05/24 23:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		68 - 127			-		03/05/24 23:50	1
Method: SW846 8260D - Vo	olatile Organic	Compound	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/04/24 22:27	1
cis-1.2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 22:27	1
,									

Surrogate	%Recovery Qua	alifier Limits		Prepared Ana	lyzed Dil Fac
Vinyl chloride	1.4	1.0	0.45 ug/L	03/04/2	24 22:27 1
Trichloroethene	1.0 U	1.0	0.44 ug/L	03/04/2	24 22:27 1
trans-1,2-Dichloroethene	1.0 U	1.0	0.51 ug/L	03/04/2	24 22:27 1
Tetrachloroethene	1.0 U	1.0	0.44 ug/L	03/04/2	24 22:27 1
cis-1,2-Dichloroethene	1.0 U	1.0	0.46 ug/L	03/04/2	24 22:27 1

7 1
7 1
7 1
7 1
27

Matrix: Water