PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 3/17/2025 7:40:05 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-220140-1

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 3/17/2025 7:40:05 AM

Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)966-9783 Client: Arcadis US Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-220140-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-220140-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

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

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac **Dilution Factor**

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) Limit of Quantitation (DoD/DOE) 100

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

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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 US Inc. Project: Ford LTP

Job ID: 240-220140-1 Eurofins Cleveland

Job Narrative 240-220140-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 3/8/2025 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 4.3°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: 240-220140-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-220140-1

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 US Inc.

Project/Site: Ford LTP

Job ID: 240-220140-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-220140-1	TRIP BLANK_215	Water	03/03/25 00:00	03/08/25 08:00
240-220140-2	MW-103S_030325	Water	03/03/25 13:19	03/08/25 08:00

Detection Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-220140-1

Client Sample ID: TRIP BLANK_215

No Detections.

Lab Sample ID: 240-220140-1

Client Sample ID: MW-103S_030325 Lab Sample ID: 240-220140-2

No Detections.

1

8

9

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-220140-1

Project/Site: Ford LTP

Date Received: 03/08/25 08:00

Client Sample ID: TRIP BLANK_215

Lab Sample ID: 240-220140-1 Date Collected: 03/03/25 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/14/25 18:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/14/25 18:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/14/25 18:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/14/25 18:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/14/25 18:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/14/25 18:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137			-		03/14/25 18:49	1
4-Bromofluorobenzene (Surr)	102		56 ₋ 136					03/14/25 18:49	1
Toluene-d8 (Surr)	108		78 - 122					03/14/25 18:49	1
Dibromofluoromethane (Surr)	92		73 - 120					03/14/25 18:49	1

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-220140-1

Project/Site: Ford LTP

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-103S_030325

Date Collected: 03/03/25 13:19 Date Received: 03/08/25 08:00 Lab Sample ID: 240-220140-2

03/14/25 23:31

03/14/25 23:31

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			03/12/25 22:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		68 - 127			-		03/12/25 22:32	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			03/14/25 23:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/14/25 23:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/14/25 23:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/14/25 23:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/14/25 23:31	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/14/25 23:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			-		03/14/25 23:31	1
4-Bromofluorobenzene (Surr)	101		56 ₋ 136					03/14/25 23:31	

78 - 122

73 - 120

109

95

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Surrogate Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-220140-1

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-220134-B-2 MS	Matrix Spike	99	99	108	94
240-220134-B-2 MSD	Matrix Spike Duplicate	99	99	103	95
240-220140-1	TRIP BLANK_215	98	102	108	92
240-220140-2	MW-103S_030325	101	101	109	95
LCS 240-648191/5	Lab Control Sample	102	100	109	96
MB 240-648191/9	Method Blank	101	102	107	94
0					

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-220134-E-2 MS	Matrix Spike	86	
240-220134-E-2 MSD	Matrix Spike Duplicate	83	
240-220140-2	MW-103S_030325	83	
LCS 240-647989/7	Lab Control Sample	89	
MB 240-647989/9	Method Blank	84	
Surrogate Legend			

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

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Client: Arcadis US Inc. Job ID: 240-220140-1

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

Lab Sample ID: MB 240-648191/9

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 648191

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

MB MB Dil Fac Analyte Result Qualifier RLMDL Unit D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 03/14/25 17:31 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 03/14/25 17:31 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 03/14/25 17:31 trans-1,2-Dichloroethene 1.0 U 1.0 03/14/25 17:31 0.51 ug/L 03/14/25 17:31 Trichloroethene 1.0 U 1.0 0.44 ug/L Vinyl chloride 1.0 U 1.0 0.45 ug/L 03/14/25 17:31

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		03/14/25 17:31	1
4-Bromofluorobenzene (Surr)	102		56 - 136		03/14/25 17:31	1
Toluene-d8 (Surr)	107		78 - 122		03/14/25 17:31	1
Dibromofluoromethane (Surr)	94		73 - 120		03/14/25 17:31	1

Lab Sample ID: LCS 240-648191/5

Matrix: Water

Analysis Batch: 648191

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	20.0	16.9		ug/L	84	63 - 134	
cis-1,2-Dichloroethene	20.0	17.0	ı	ug/L	85	77 - 123	
Tetrachloroethene	20.0	17.9	į	ug/L	90	76 - 123	
trans-1,2-Dichloroethene	20.0	17.5		ug/L	88	75 - 124	
Trichloroethene	20.0	17.0	ı	ug/L	85	70 - 122	
Vinyl chloride	20.0	16.2	į	ug/L	81	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		62 - 137
4-Bromofluorobenzene (Surr)	100		56 ₋ 136
Toluene-d8 (Surr)	109		78 - 122
Dibromofluoromethane (Surr)	96		73 _ 120

Lab Sample ID: 240-220134-B-2 MS

Matrix: Water

Analysis Batch: 648191

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 F1 F2	20.0	9.81	F1	ug/L		49	56 - 135	
cis-1,2-Dichloroethene	21	F1 F2	20.0	10.3	F1	ug/L		-53	66 - 128	
Tetrachloroethene	1.0	U F1 F2	20.0	11.1	F1	ug/L		56	62 - 131	
trans-1,2-Dichloroethene	1.2	F1 F2	20.0	10.3	F1	ug/L		46	56 - 136	
Trichloroethene	3.2	F1 F2	20.0	10.3	F1	ug/L		36	61 - 124	
Vinyl chloride	1.0	U	20.0	13.9		ug/L		69	43 - 157	

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 _ 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	108		78 - 122

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Job ID: 240-220140-1

Client: Arcadis US Inc. Project/Site: Ford LTP

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

Matrix: Water

Analysis Batch: 648191

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 94 73 - 120

Lab Sample ID: 240-220134-B-2 MSD

Lab Sample ID: 240-220134-B-2 MS

Matrix: Water

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analysis Batch: 648191

MSD MSD RPD Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 1,1-Dichloroethene 1.0 U F1 F2 20.0 16.1 F2 ug/L 81 56 - 135 49 26 cis-1,2-Dichloroethene 21 F1 F2 20.0 16.0 F1.F2 -25 66 - 128 ug/L 43 14 Tetrachloroethene 1.0 UF1F2 20.0 16.9 F2 ug/L 84 62 - 131 41 20 trans-1.2-Dichloroethene 15 1.2 F1 F2 20.0 16.7 F2 ug/L 78 56 - 136 47 Trichloroethene 3.2 F1 F2 20.0 16.3 F2 ug/L 66 61 - 124 45 15 Vinyl chloride 1.0 U 20.0 17.7 ug/L 43 - 157 24 24

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

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

Lab Sample ID: MB 240-647989/9

Matrix: Water

Analysis Batch: 647989

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 03/12/25 17:27

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 84 68 - 127 03/12/25 17:27

Lab Sample ID: LCS 240-647989/7

Analyte

1,4-Dioxane

Matrix: Water Prep Type: Total/NA Analysis Batch: 647989 Spike LCS LCS %Rec

Result

9.36

Qualifier

Unit

ug/L

D

%Rec

Added

68 - 127

10.0

LCS LCS %Recovery Qualifier Surrogate Limits

89

Lab Sample ID: 240-220134-E-2 MS

Matrix: Water

Analysis Batch: 647989

1,2-Dichloroethane-d4 (Surr)

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample

Limits

75 - 121

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 9.50 ug/L 95 20 - 180

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QC Sample Results

Client: Arcadis US Inc. Job ID: 240-220140-1

Project/Site: Ford LTP

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		68 - 127

Lab Sample	ID: 240-2201	34-E-2 MSD

Matrix: Water

Analysis Batch: 647989

Analysis Batch. 047303	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	9.71		ug/L		97	20 - 180	2	20

MSD MSD

Surrogate%RecoveryQualifierLimits1,2-Dichloroethane-d4 (Surr)8368 - 127

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

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4.0

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QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-220140-1

GC/MS VOA

Analysis Batch: 647989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-220140-2	MW-103S_030325	Total/NA	Water	8260D SIM	
MB 240-647989/9	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-647989/7	Lab Control Sample	Total/NA	Water	8260D SIM	
240-220134-E-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-220134-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 648191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-220140-1	TRIP BLANK_215	Total/NA	Water	8260D	
240-220140-2	MW-103S_030325	Total/NA	Water	8260D	
MB 240-648191/9	Method Blank	Total/NA	Water	8260D	
LCS 240-648191/5	Lab Control Sample	Total/NA	Water	8260D	
240-220134-B-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-220134-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-220140-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_215

Lab Sample ID: 240-220140-1 Date Collected: 03/03/25 00:00

Matrix: Water

Date Received: 03/08/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	648191	AJS	EET CLE	03/14/25 18:49

Client Sample ID: MW-103S_030325 Lab Sample ID: 240-220140-2

Date Collected: 03/03/25 13:19 Matrix: Water

Date Received: 03/08/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	648191	AJS	EET CLE	03/14/25 23:31
Total/NA	Analysis	8260D SIM		1	647989	R5XG	EET CLE	03/12/25 22:32

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-220140-1

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			
Connecticut	State	PH-0806	12-31-26			
Georgia	State	4062	02-27-26			
Illinois	NELAP	200004	08-31-25			
lowa	State	421	06-01-25			
Kansas	NELAP	E-10336	01-31-26			
Kentucky (WW)	State	KY98016	12-31-25			
Minnesota	NELAP	039-999-348	12-31-25			
New Hampshire	NELAP	225024	09-30-25			
New Jersey	NELAP	OH001	07-03-25			
New York	NELAP	10975	04-01-25			
Ohio	State	8303	11-04-25			
Ohio VAP	State	ORELAP 4062	02-28-26			
Oregon	NELAP	4062	02-27-26			
Pennsylvania	NELAP	68-00340	08-31-25			
Texas	NELAP	T104704517-22-19	08-31-25			
USDA	US Federal Programs	P330-18-00281	01-05-27			
Virginia	NELAP	460175	09-14-25			
West Virginia DEP	State	210	12-31-25			
Wisconsin	State	399167560	08-31-25			

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Chain of Custody Record

2113
<u>TestAmerica</u>
THE LEADER IN ENVIRONMENTAL TESTING

To	stAmerica Labora	tory location:	Farmi	ngton	Hills –	- 38855	Hills	Tech (Drive,	Suite	600,	Farming	gton H	ills 483	331									THE	LEADER IN ENVIRONMEN	HTAL TESTIN
Client Contact	Regular	tory program:		Γ	DW		□ N	PDES		F 1	RCRA		(Otl	her						_						
Company Name: Arcadis	Client Project	Manager: Mega	an Meci	kley	-	Is	Site C	ontaci	: Sam	nantha	Szpa	ichler			Lab	Conta	ct: Mil	ke Del	Monic	:0	_	_	-	_	COC No:	tories, Inc
Address: 28550 Cabot Drive, Suite 500																					4					
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240				ľ	l elepi	ione: 248-994-2240					Telephone: 330-497-9396							-	1 of 1	COCs				
Phone: 248-994-2240	Email: kristoff	er.hinskey@arc	cadis.co	m			A	alysis	ysis Turnaround Time					Analyses								F	or lab use only			
	Sampler Name	:	_			-	TAT	differen	t from h	below	T													ν	Valk-in client	-
Project Name: Ford LTP		ebecca	C_{α}	×h	GA	n	10	day		3 wee		\neg	1											,	ab sampling	
Project Number: 30206169.0401.03	Method of Ship				/ 0.		10	uay		1 wee	ck		ي ي							SIM				ľ	ao sampung	
PO # US3460021848	Shipping/Track	cine No:								2 day 1 day				ı	9	82600			G09	S GO				,	ob/SDG No:	
				W-									Filtered Sample (V/N) Composite-C/Grab-C	8260D	8260D	CE 8			Vinyl Chloride 8260D	1,4-Dioxane 8260D					,5,0,5,0,1,0,	
				ML	trix		1	entma	ers &	Preser	vative		S I	85	2-DCE	Trans-1,2-DCE	8260D	30D	lorid	ane				ŀ		
				Sediment	ا ۽ ا	ë	H2S04	3 _	Ę		ğ ğ		2 å	1,1-DCE	1.2.1	ns-1	82	TCE 8260D	D.	Dio,					Sample Specific !	
Sample Identification	Sample Date	Sample Time	₹ .	Sed A	Solid	Other:	ž į	HC E	ž	ZnAci	Unpres		है ह	Ε.	cis-1.	Tra	PCE	10	> E	1,4	Ш		\perp	\perp	Special Instruct	ions:
TRIP BLANK_ 215			1					1				I	NG	X	Х	X	Х	Х	Х		П			Т	1 Trip Blank	
MW-1035-030325	alala=	1210	1		П			7		\Box			11/	10			50	~		V	\Box	\neg	\neg	\top	3 VOAs for 8260	D
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Submit all results through Cadena at jtomalia@cadenac evel IV Reporting requested.	124 Cap co.com. Cadena #E	203728																								
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VOA Sample Preservation - Date/Time VOAs Frozen:
Time preserved:Preservative(s) added/Lot number(s):
20. SAMPLE PRESERVATION
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)
Sample(s) were received after the received in a broken container.
PLE CONDITION
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Concerning
Contacted PM Date by via Verbal Voice Mail Other
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 10.56 Yes No. 17. Was a LL Hg or Me Hg trip blank present? Yes No.
an this. Yes
If yes, Questions 13-1/ have been checked at the originating laboratory. Were all preserved sample(s) at the correct pH upon receipt?
10. Were correct bottle(s) used for the test(s) indicated? 11. Sufficient quantity received to perform indicated analyses? (e) No
with the COC? s (YN), # of containers (YN), and
Did all bottles arrive in good condition (Unbroken)?
Were the custody papers relinquished & signed in the appropriate place?
-Were tamper/custody seals intact and uncompromised?
Were the seals on the outside of the cooler(s) signed & dated? When the seals on the outside of the cooler(s) signed & dated? When the seals on the bettle(s) or bottle bits (1 1 4 5 6 4 6 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6
2. C. C.
perature upon receipt See Multiple Cooler Form
COOLANT: Wellbe Blue Ice Dry-Ice Water None
ox Client Cooler Box
Drop-off Date/Time Storage Location
Cooler Received on 3/8/75 Opened on 3/8/75 Warpoint Client Drop Off Eurofins Courier Other
Site Name Cooler
Eurofins — Cleveland Sample Receipt Form/Narrative Login # : Barberton Facility
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Page 19 of 20

3/8/2025

Temperature readings:			3
Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number
TRIP BLANK_215	240-220140-A-1	Voa Vial 40ml - Hydrochloric Acid	
MW-103S_030325	240-220140-A-2	Voa Vial 40ml - Hydrochloric Acid	
MW-103S_030325	240-220140-B-2	Voa Vial 40ml - Hydrochloric Acid	
MW-103S_030325	240-220140-C-2	Voa Vial 40ml - Hydrochloric Acid	
MW-103S_030325	240-220140-D-2	Voa Vial 40ml - Hydrochloric Acid	
MW-103S_030325	240-220140-E-2	Voa Vial 40ml - Hydrochloric Acid	
MW-103S_030325	240-220140-F-2	Voa Vial 40ml - Hydrochloric Acid	

Page 1 of 1

DATA VERIFICATION REPORT



March 17, 2025

Megan Meckley Arcadis 28550 Cabot Drive Suite 500 Novi, MI US 48377

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - ON-SITE Soil Gas, Ground Water and Soil

Project number: 30251157.401.04 (vapor 301.04) 30206169.0401.04

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

Laboratory submittal: 220140-1 Sample date: 2025-03-03

Report received by CADENA: 2025-03-17

Initial Data Verification completed by CADENA: 2025-03-17

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

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

The following minor QC exceptions or missing information were noted:

GCMS VOC 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.

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 $48108\ 517\text{-}819\text{-}0356$

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: 220140-1

		Sample Name:	TRIP BL	ANK_21	5		MW-103	3S_0303	25	
		Lab Sample ID:	240220	1401			240220	1402		
		Sample Date:	3/3/202	.5			3/3/202	.5		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>0D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-826	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-220140-1

CADENA Verification Report: 2025-03-17

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 58571R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-220140-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Ana	ysis	
Sample ID	Lab ID	Watrix	Collection Date	raieiii Saiiipie		VOC SIM	
TRIP BLANK_215	240-220140-1	Water	03/03/2025		Х		
MW-103S_030325	240-220140-2	Water	03/03/2025		Х	Х	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfori Accep		Not
	No	Yes	No	Yes	Required
Sample receipt condition		X		Х	
2. Requested analyses and sample results		X		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	
9. 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		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		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: Febin J S

SIGNATURE:

DATE: March 28, 2025

PEER REVIEW: Andrew Korycinski

DATE: March 31, 2025

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

2113
<u>TestAmerica</u>
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: Farmington Hills — 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331											THE LEADER IN ENVIRONMENTAL TESTING															
Client Contact	Regular	tory program:		Γ	DW		□ N	PDES		F 1	RCRA		(Otl	her						_						
Company Name: Arcadis	Client Project	Manager: Mega	an Meci	kley	-	Is	Site C	ontaci	: Sam	nantha	Szpa	ichler			Lab	Conta	ct: Mil	ke Del	Monic	:0	_	_	-	_	COC No:	tories, Inc
Address: 28550 Cabot Drive, Suite 500																				1				4		
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240				ľ	l elepi	ione: .	248-9	94-224	¥U				Telej	phone:	330-4	97-939	96					-	1 of 1	COCs
Phone: 248-994-2240	Email: kristoff	er.hinskey@arc	cadis.co	m			A	alysis	Tur	121001	d Tim	t .	1			_		A	naly	es		=		F	or lab use only	
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Project Number: 30206169.0401.03		Method of Shipment/Carrier: Shipping/Tracking No:				10	uay		1 wee	ck		ي ي							SIM				ľ	ao sampung		
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		Matrix											Filtered Sample (V/N) Composite-C/Grab-C	8260D	8260D	CE 8			Vinyl Chloride 8260D	1,4-Dioxane 8260D					,5,0,5,0,1,0,	
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Sample Identification	Sample Date	Sample Time	₹ .	Sed A	Solid	Other:	ž į	HC E	ž	ZnAci	Unpres		है ह	Ε.	cis-1.	Tra	PCE	10	> E	1,4	Ш		\perp	\perp	Special Instruct	ions:
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AC 3/3/25																										
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Submit all results through Cadena at jtomalia@cadenac evel IV Reporting requested.	124 Cap co.com. Cadena #E	203728																								
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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-220140-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

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

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac **Dilution Factor**

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) Limit of Quantitation (DoD/DOE) 100

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

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-220140-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_215

Lab Sample ID: 240-220140-1 Date Collected: 03/03/25 00:00

Matrix: Water

Date Received: 03/08/25 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			03/14/25 18:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/14/25 18:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/14/25 18:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/14/25 18:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/14/25 18:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/14/25 18:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137					03/14/25 18:49	1
4-Bromofluorobenzene (Surr)	102		56 ₋ 136					03/14/25 18:49	1
Toluene-d8 (Surr)	108		78 - 122					03/14/25 18:49	1
Dibromofluoromethane (Surr)	92		73 - 120					03/14/25 18:49	1

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-220140-1

Project/Site: Ford LTP

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-103S_030325

Date Collected: 03/03/25 13:19 Date Received: 03/08/25 08:00 Lab Sample ID: 240-220140-2

03/14/25 23:31

03/14/25 23:31

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			03/12/25 22:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		68 - 127			-		03/12/25 22:32	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			03/14/25 23:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/14/25 23:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/14/25 23:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/14/25 23:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/14/25 23:31	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/14/25 23:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			-		03/14/25 23:31	1
4-Bromofluorobenzene (Surr)	101		56 ₋ 136					03/14/25 23:31	

78 - 122

73 - 120

109

95

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