PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 3/17/2025 7:38:30 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-220134-1

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 7:38:30 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: 240-220134-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-220134-1

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-220134-1 Eurofins Cleveland

Job Narrative 240-220134-1

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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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-220134-1

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: 240-220134-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-220134-1	TRIP BLANK_107	Water	03/03/25 00:00	03/08/25 08:00
240-220134-2	MW-218S_030325	Water	03/03/25 11:00	03/08/25 08:00

C

Detection Summary

Client: Arcadis US Inc. Job ID: 240-220134-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_107

Lab Sample ID: 240-220134-1

No Detections.

Client Sample ID: MW-218S_030325

Lab Sample ID: 240-220134-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	21	F1 F2	1.0	0.46	ug/L	1	_	8260D	Total/NA
trans-1,2-Dichloroethene	1.2	F1 F2	1.0	0.51	ug/L	1		8260D	Total/NA
Trichloroethene	3.2	F1 F2	1.0	0.44	ug/L	1		8260D	Total/NA

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-220134-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_107

Lab Sample ID: 240-220134-1 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 17:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/14/25 17:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/14/25 17:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/14/25 17:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/14/25 17:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/14/25 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137			_		03/14/25 17:57	1
4-Bromofluorobenzene (Surr)	102		56 ₋ 136					03/14/25 17:57	1
Toluene-d8 (Surr)	111		78 - 122					03/14/25 17:57	1
Dibromofluoromethane (Surr)	94		73 - 120					03/14/25 17:57	1

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-220134-1

Project/Site: Ford LTP

Client Sample ID: MW-218S_030325

Date Received: 03/08/25 08:00

Lab Sample ID: 240-220134-2 Date Collected: 03/03/25 11:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/13/25 00:05	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	83		68 - 127					03/13/25 00:05	

1 Bromofluorobenzene (Surr)	102		56 136			02/15/25 02:05	1
1,2-Dichloroethane-d4 (Surr)	100		62 - 137			03/15/25 02:05	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.45 ug/L		03/15/25 02:05	1
Trichloroethene		F1 F2	1.0	0.44 ug/L		03/15/25 02:05	1
trans-1,2-Dichloroethene	1.2	F1 F2	1.0	0.51 ug/L		03/15/25 02:05	1
Tetrachloroethene	1.0	U F1 F2	1.0	0.44 ug/L		03/15/25 02:05	1
cis-1,2-Dichloroethene	21	F1 F2	1.0	0.46 ug/L		03/15/25 02:05	1
1,1-Dichloroethene	1.0	U F1 F2	1.0	0.49 ug/L		03/15/25 02:05	1

Surrogate	%Recovery Q	Qualifier Limits	Prepared	l Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100	62 - 13	7	03/15/25 02:05	1
4-Bromofluorobenzene (Surr)	102	56 - 13	6	03/15/25 02:05	1
Toluene-d8 (Surr)	106	78 - 12	2	03/15/25 02:05	1
Dibromofluoromethane (Surr)	96	73 - 12	0	03/15/25 02:05	1

Surrogate Summary

Client: Arcadis US Inc.

Job ID: 240-220134-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

			Percent Sur	rogate Reco	
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-220134-1	TRIP BLANK_107	103	102	111	94
240-220134-2	MW-218S_030325	100	102	106	96
240-220134-2 MS	MW-218S-MS_030325	99	99	108	94
240-220134-2 MSD	MW-218S-MSD_030325	99	99	103	95
LCS 240-648191/5	Lab Control Sample	102	100	109	96
MB 240-648191/9	Method Blank	101	102	107	94

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)	
240-220134-2	MW-218S_030325	83	
240-220134-2 MS	MW-218S-MS_030325	86	
240-220134-2 MSD	MW-218S-MSD_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: 240-220134-1

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

Lab Sample ID: MB 240-648191/9

Matrix: Water

Analyte

Project/Site: Ford LTP

Analysis Batch: 648191

Client Sample ID: Method Blank
Prep Type: Total/NA

MB MB Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 1.0 U 1.0 0.49 ug/L 03/14/25 17:31

1,1-Dichloroethene cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 03/14/25 17:31 1.0 U Tetrachloroethene 1.0 0.44 ug/L 03/14/25 17:31 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 03/14/25 17:31 1.0 0.44 ug/L 03/14/25 17:31 Trichloroethene 1.0 U Vinyl chloride 1.0 U 1.0 0.45 ug/L 03/14/25 17:31

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

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

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

Lab Sample ID: 240-220134-2 MS Client Sample ID: MW-218S-MS_030325 **Matrix: Water**

Analysis Batch: 648191

Sample Sample MS MS %Rec Spike Result Qualifier Result Qualifier Added Limits Analyte Unit D %Rec U F1 F2 F1 1,1-Dichloroethene 1.0 20.0 9.81 ug/L 49 56 - 135 ug/L cis-1,2-Dichloroethene 21 F1 F2 20.0 10.3 F1 -53 66 - 128 Tetrachloroethene 1.0 UF1F2 20.0 11 1 F1 ug/L 56 62 - 131trans-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 36 61 - 124 ug/L Vinyl chloride 20.0 1.0 U 13.9 ug/L 43 - 157

	MS	MS	
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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Prep Type: Total/NA

3/17/2025

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

Job ID: 240-220134-1

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

Lab Sample ID: 240-220134-2 MS Client Sample ID: MW-218S-MS_030325 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 648191

MS MS

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

Lab Sample ID: 240-220134-2 MSD Client Sample ID: MW-218S-MSD 030325 Prep Type: Total/NA

Matrix: Water

Analysis Batch: 648191

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
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	ug/L		-25	66 - 128	43	14
Tetrachloroethene	1.0	U F1 F2	20.0	16.9	F2	ug/L		84	62 - 131	41	20
trans-1,2-Dichloroethene	1.2	F1 F2	20.0	16.7	F2	ug/L		78	56 - 136	47	15
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		89	43 - 157	24	24

MSD MSD Qualifier Surrogate %Recovery 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 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 647989

MR MR

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 17:27	1

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

Matrix: Water

Analysis Batch: 647989

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier	Unit D	%Rec	Limits	
1./-Diovane		0.36		ua/l	0/	75 121	

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 89

Lab Sample ID: 240-220134-2 MS Client Sample ID: MW-218S-MS 030325

Matrix: Water

Analysis Ratch: 647989

Analysis Batom 647 600											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	2.0	U	10.0	9.50		ua/L		95	20 - 180		-

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Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

QC Sample Results

Client: Arcadis US Inc. Job ID: 240-220134-1

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

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Lab Sample ID: 240-220134-2 MSD	Client Sample ID: MW-218S-MSD_030325
Matrix: Water	Pren Type: Total/NA

Analysis Batch: 647989

	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

 Surrogate
 %Recovery
 Qualifier
 Limits

 1,2-Dichloroethane-d4 (Surr)
 83
 68 - 127

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QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-220134-1

GC/MS VOA

Analysis Batch: 647989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-220134-2	MW-218S_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	
240-220134-2 MS	MW-218S-MS_030325	Total/NA	Water	8260D SIM	
240-220134-2 MSD	MW-218S-MSD_030325	Total/NA	Water	8260D SIM	

Analysis Batch: 648191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-220134-1	TRIP BLANK_107	Total/NA	Water	8260D	
240-220134-2	MW-218S_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	
240-220134-2 MS	MW-218S-MS_030325	Total/NA	Water	8260D	
240-220134-2 MSD	MW-218S-MSD_030325	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-220134-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_107

Lab Sample ID: 240-220134-1 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			648191	AJS	EET CLE	03/14/25 17:57

Client Sample ID: MW-218S_030325 Lab Sample ID: 240-220134-2

Date Collected: 03/03/25 11:00 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	03/15/25 02:05
Total/NA	Analysis	8260D SIM		1	647989	R5XG	EET CLE	03/13/25 00:05

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: 240-220134-1

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

[3/13]
<u>lestAmerico</u>
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: Farmington Hills — 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331 Client Contact Regulatory program: RCRA (Other Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Megan Meckley COC No: Site Contact: Samantha Szpaichler Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 COCs 1 of 1 Email: kristoffer.hinskey@arcadis.com Analysis Turnaround Time For lab use only Phone: 248-994-2240 Sampler Name: Walk-in client Project Name: Ford LTP 3 weeks 2 weeks Lab sampling Project Number: 30206169,0401,03 1 week 2 days 8260D PO # US3460021848 Shipping/Tracking No: ☐ 1 day Job/SDG No: Vinyl Chloride ners & Preservatives Sample Specific Notes / H2SO4 HN03 HCI ZaAd NaOH Special Instructions: Sample Identification Sample Time TRIP BLANK_ NIGI X X 1 Trip Blank 3 VOAs for 8260D 3/3/24 1100 3 VOAs for 8260D SIM MS/MST Ruw MW-2185-MSD_030325 12UW ms/msr 240-220134 COC Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Non-Hazard in Irritant Poison B Inknown Return to Client Disposal By Lab Special Instructions/QC Requirements & Comments: Orisite Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728 Level IV Reporting requested. Relinquished by

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Relinquished by:

Anadi)

Received in Laboratory by:

VOA Sample Preservation - Date/Time VOAs Frozen.	بسد
Sample(s)	או דיי
20. SAMPLE PRESERVATION	N
Sample(s)were received after the recommended holding time had expired. Sample(s)were received in a broken container Sample(s)were received with bubble >6 mm in diameter (Notify PM)	ro ro ro w
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	1
Contacted PM Date by via Verbal Voice Mail Other	_
13 Were all preserved sample(s) at the correct pH upon receipt? 14 Were VOAs on the COC? 15 Were air bubbles >6 mm in any VOA vials? 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 10 32 7 Yes No 17 Was a LL Hg or Me Hg trip blank present?	
Sufficient quantity received to perform indicated analyses? Are these work share samples and all listed on the COC? Yes If we Onestions 13-17 have been checked at the origination laboratory.	
with the COC? (DN), # of containers (DN), and san Yes	
d in the appropriate place? ples clearly identified on the COC?	-) (2) (4)
 - Were tamper/custody seats infact and uncompromised? 3 Shippers' packing slip attached to the cooler(s)? 4 Did-custody papers accompany the sample(s)? City No NA VOAs Oil and Grease Oil and Grease	- LI
If Yes Quantity (Les) No dated? (Les) No Yes (N)	N
1 Cooler temperature upon receipt IR GUN # 21 (CF +1 1 °C) Observed Cooler Temp. 3 2 °C Corrected Cooler Temp. 4 3 °C	
ox Client Cooler Box Foam Plastic Bag N Ice Dry Ice Water 1	l "red
Waypoint Chent Drop Off Eurofins Courier Other Time Storage Location	74 741
3 8 75 Opened on 3 8 75	α
od Sample Receipt-Form/N	つ 開催

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Login Container Summary Report

Chent Sample ID	Temperature readings	3/8/2025
<u>Lab ID</u>		Log
Container Type		Login Container Summary Report
<u>Container</u> <u>pH Temp</u>		řŧ
Preservation Preservation Added Lot Numbe		240-22013
Preservation Lot Number		0134
	3/17/2	025

	240-220134-F-2 MS Voa Vial 40ml - Hydrochloric Acid	240-220134-F-2 MS	MW-218S-MS_030325
	Voa Vial 40ml - Hydrochloric Acid	240-220134-F-2	MW-218S_030325
	Voa Vial 40ml - Hydrochloric Acid	240-220134-E-2 MSD	MW-218S-MSD_030325
Pag	Voa Vial 40ml - Hydrochloric Acid	240-220134-E-2 MS	MW-218S-MS_030325
ge 2	Voa Vial 40ml - Hydrochloric Acid	240-220134-E-2	MW-218S_030325
0 of 20	Voa Vial 40ml - Hydrochloric Acid	240-220134-D-2 MSD	MW-218S-MSD_030325
	Voa Vial 40ml - Hydrochloric Acid	240-220134-D-2 MS	MW-218S-MS_030325
	Voa Vıal 40ml - Hydrochloric Acid	240-220134-D-2	MW-218S_030325
	Voa Vial 40ml - Hydrochloric Acid	240-220134-C-2 MSD	MW-218S-MSD_030325
	Voa Vial 40ml - Hydrochloric Acid	240-220134-C-2 MS	MW-218S-MS_030325
	Voa Vial 40ml - Hydrochloric Acid	240-220134-C-2	MW-218S_030325
	Voa Vial 40ml - Hydrochloric Acid	240-220134-B-2 MSD	MW-218S-MSD_030325
	Voa Vial 40ml - Hydrochloric Acid	240-220134-B-2 MS	MW-218S-MS_030325
	Voa Vial 40ml - Hydrochloric Acid	240-220134-B-2	MW-218S_030325
	Voa Vial 40ml - Hydrochloric Acid	240-220134-A-2 MSD	MW-218S-MSD_030325
	Voa Vial 40ml - Hydrochloric Acid	240-220134-A-2 MS	MW-218S-MS_030325
	Voa Vial 40ml - Hydrochloric Acıd	240-220134-A-2	MW-218S_030325
	Voa Vıal 40ml - Hydrochlorıc Acıd	240-220134-A-1	TRIP BLANK_107
Container Preservation Preservation pH Temp Added Lot Number	Container Type	<u>Lab ID</u>	Chent Sample ID

MW-218S-MSD_030325

240-220134-F-2 MSDVoa Vial 40ml - Hydrochloric Acid

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: 220134-1 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:

MSD - GCMS VOC sample MS and MSD recovery outliers or one recovery along with the MS/MSD RPD were outliers with the recovery biased low for the following analytes: 1,1-DICHLOROETHENE, CIS-1,2-DICHOLROETHENE, TRANS-1,2-DICHLOROETHENE, TRICHOROETHENE,

TETRACHOROETHENE. Client sample results for these analytes should be considered to be estimated and qualified with a J flag if detected and UJ flags if non-detect.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, MS/MSD Recovery, MS/MSD RPD, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

Valid Qualifiers	Description						
<	Less than the reported concentration.						
>	Greater than the reported concentration.						
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.						
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.						
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.						
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.						
J-	The result is an estimated quantity, but the result may be biased low.						
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED						
JH	The sample result is considered estimated and is potentially biased high.						
JL	The sample result is considered estimated and is potentially biased low.						
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED						
NJ	Tentatively identified compound with approximated concentration.						
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)						
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.						
U	Indicates that the analyte / compound was analyzed for, but not detected.						
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.						
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.						

Qualified Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 220134-1

Sample Name: MW-218S_030325 **Lab Sample ID:** 2402201342 **Sample Date:** 2/2/2025

Sample Date: 3/3/2025
Report

			Report		Valid	
	Analyte	Cas No.	Result	Limit	Units	Qualifier
GC/MS VOC						
OSW-826	<u>60D</u>					
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	UJ
	cis-1,2-Dichloroethene	156-59-2	21	1.0	ug/l	J
	Tetrachloroethene	127-18-4	ND	1.0	ug/l	UJ
	trans-1,2-Dichloroethene	156-60-5	1.2	1.0	ug/l	J
	Trichloroethene	79-01-6	3.2	1.0	ug/l	J

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 220134-1

		Sample Name: Lab Sample ID: Sample Date:	3/3/2025			MW-218S_030325 2402201342 3/3/2025				
	Analyte	Cas No.	Result	Report Limit		Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC OSW-8260	·									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	UJ
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		21	1.0	ug/l	J
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	UJ
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		1.2	1.0	ug/l	J
	Trichloroethene	79-01-6	ND	1.0	ug/l		3.2	1.0	ug/l	J
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260	<u>DDSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	