

# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 5/20/2025 7:00:25 AM

## JOB DESCRIPTION

Ford LTP

## JOB NUMBER

240-224380-1

# Eurofins Cleveland

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



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# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Method Summary . . . . .	6
Sample Summary . . . . .	7
Detection Summary . . . . .	8
Client Sample Results . . . . .	9
Surrogate Summary . . . . .	11
QC Sample Results . . . . .	12
QC Association Summary . . . . .	15
Lab Chronicle . . . . .	16
Certification Summary . . . . .	17
Chain of Custody . . . . .	18

# Definitions/Glossary

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

Job ID: 240-224380-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
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: 240-224380-1

**Job ID: 240-224380-1**

**Eurofins Cleveland**

## Job Narrative 240-224380-1

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 5/14/2025 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 2.9°C and 3.1°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: 240-224380-1

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Sample Summary

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

Job ID: 240-224380-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-224380-1	TRIP BLANK_85	Water	05/09/25 00:00	05/14/25 08:00
240-224380-2	MW-130S_050925	Water	05/09/25 11:30	05/14/25 08:00

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Detection Summary

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

Job ID: 240-224380-1

**Client Sample ID: TRIP BLANK\_85**

**Lab Sample ID: 240-224380-1**

No Detections.

**Client Sample ID: MW-130S\_050925**

**Lab Sample ID: 240-224380-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.5		1.0	0.45	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 240-224380-1

**Client Sample ID: TRIP BLANK\_85**

**Lab Sample ID: 240-224380-1**

Date Collected: 05/09/25 00:00

Matrix: Water

Date Received: 05/14/25 08:00

**Method: SW846 8260D - Volatile Organic Compounds 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			05/17/25 12:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/17/25 12:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/17/25 12:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/17/25 12:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/17/25 12:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/17/25 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		05/17/25 12:27	1
4-Bromofluorobenzene (Surr)	81		56 - 136		05/17/25 12:27	1
Toluene-d8 (Surr)	94		78 - 122		05/17/25 12:27	1
Dibromofluoromethane (Surr)	103		73 - 120		05/17/25 12:27	1

# Client Sample Results

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

Job ID: 240-224380-1

**Client Sample ID: MW-130S\_050925**

**Lab Sample ID: 240-224380-2**

Date Collected: 05/09/25 11:30

Matrix: Water

Date Received: 05/14/25 08:00

**Method: SW846 8260D SIM - Volatile Organic Compounds (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			05/17/25 03:15	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	76		68 - 127					05/17/25 03:15	1

**Method: SW846 8260D - Volatile Organic Compounds 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			05/17/25 19:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/17/25 19:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/17/25 19:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/17/25 19:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/17/25 19:44	1
<b>Vinyl chloride</b>	<b>1.5</b>		1.0	0.45	ug/L			05/17/25 19:44	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	104		62 - 137					05/17/25 19:44	1
4-Bromofluorobenzene (Surr)	78		56 - 136					05/17/25 19:44	1
Toluene-d8 (Surr)	93		78 - 122					05/17/25 19:44	1
Dibromofluoromethane (Surr)	104		73 - 120					05/17/25 19:44	1

# Surrogate Summary

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

Job ID: 240-224380-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (62-137)	BFB (56-136)	TOL (78-122)	DBFM (73-120)
240-224347-B-2 MS	Matrix Spike	91	84	90	93
240-224347-B-2 MSD	Matrix Spike Duplicate	94	90	95	100
240-224380-1	TRIP BLANK_85	101	81	94	103
240-224380-2	MW-130S_050925	104	78	93	104
LCS 240-656416/4	Lab Control Sample	94	89	96	100
MB 240-656416/8	Method Blank	102	81	94	104

### 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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (68-127)
240-224380-2	MW-130S_050925	76
240-224387-B-2 MS	Matrix Spike	77
240-224387-B-2 MSD	Matrix Spike Duplicate	78
LCS 240-656375/2	Lab Control Sample	78
MB 240-656375/4	Method Blank	80

### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-224380-1

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

Lab Sample ID: MB 240-656416/8

Matrix: Water

Analysis Batch: 656416

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/17/25 12:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/17/25 12:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/17/25 12:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/17/25 12:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/17/25 12:03	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/17/25 12:03	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	102		62 - 137		05/17/25 12:03	1
4-Bromofluorobenzene (Surr)	81		56 - 136		05/17/25 12:03	1
Toluene-d8 (Surr)	94		78 - 122		05/17/25 12:03	1
Dibromofluoromethane (Surr)	104		73 - 120		05/17/25 12:03	1

Lab Sample ID: LCS 240-656416/4

Matrix: Water

Analysis Batch: 656416

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1-Dichloroethene	12.5	12.1		ug/L		97	63 - 134
cis-1,2-Dichloroethene	12.5	11.7		ug/L		94	77 - 123
Tetrachloroethene	12.5	12.4		ug/L		99	76 - 123
trans-1,2-Dichloroethene	12.5	12.1		ug/L		96	75 - 124
Trichloroethene	12.5	11.9		ug/L		95	70 - 122
Vinyl chloride	12.5	9.92		ug/L		79	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	89		56 - 136
Toluene-d8 (Surr)	96		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

Lab Sample ID: 240-224347-B-2 MS

Matrix: Water

Analysis Batch: 656416

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	1.0	U	12.5	10.3		ug/L		82	56 - 135
cis-1,2-Dichloroethene	1.0	U	12.5	10.6		ug/L		84	66 - 128
Tetrachloroethene	1.0	U	12.5	9.46		ug/L		76	62 - 131
trans-1,2-Dichloroethene	1.0	U	12.5	10.1		ug/L		81	56 - 136
Trichloroethene	1.0	U	12.5	9.91		ug/L		79	61 - 124
Vinyl chloride	1.0	U	12.5	9.25		ug/L		74	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
4-Bromofluorobenzene (Surr)	84		56 - 136
Toluene-d8 (Surr)	90		78 - 122

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# QC Sample Results

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

Job ID: 240-224380-1

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

**Lab Sample ID: 240-224347-B-2 MS**  
**Matrix: Water**  
**Analysis Batch: 656416**

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

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	93		73 - 120

**Lab Sample ID: 240-224347-B-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 656416**

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

Analyte	Sample		Spike Added	MSD MSD		Unit	D	%Rec	%Rec		RPD	
	Result	Qualifier		Result	Qualifier				Limits	RPD	Limit	
1,1-Dichloroethene	1.0	U	12.5	11.7		ug/L		94	56 - 135	13	26	
cis-1,2-Dichloroethene	1.0	U	12.5	11.1		ug/L		89	66 - 128	5	14	
Tetrachloroethene	1.0	U	12.5	11.2		ug/L		89	62 - 131	17	20	
trans-1,2-Dichloroethene	1.0	U	12.5	11.0		ug/L		88	56 - 136	9	15	
Trichloroethene	1.0	U	12.5	10.8		ug/L		87	61 - 124	9	15	
Vinyl chloride	1.0	U	12.5	9.86		ug/L		79	43 - 157	6	24	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	90		56 - 136
Toluene-d8 (Surr)	95		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

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

**Lab Sample ID: MB 240-656375/4**  
**Matrix: Water**  
**Analysis Batch: 656375**

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/16/25 22:10	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	80		68 - 127		05/16/25 22:10	1

**Lab Sample ID: LCS 240-656375/2**  
**Matrix: Water**  
**Analysis Batch: 656375**

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	RPD
1,4-Dioxane	10.0	8.66		ug/L		87	75 - 121	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	78		68 - 127

**Lab Sample ID: 240-224387-B-2 MS**  
**Matrix: Water**  
**Analysis Batch: 656375**

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

Analyte	Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec	
	Result	Qualifier		Result	Qualifier				Limits	RPD
1,4-Dioxane	1.0	J	10.0	12.4		ug/L		114	20 - 180	

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# QC Sample Results

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

Job ID: 240-224380-1

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	77		68 - 127

**Lab Sample ID: 240-224387-B-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 656375**

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

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
1,4-Dioxane	1.0	J	10.0	11.6		ug/L		106	20 - 180	7	20

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	78		68 - 127

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# QC Association Summary

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

Job ID: 240-224380-1

## GC/MS VOA

### Analysis Batch: 656375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224380-2	MW-130S_050925	Total/NA	Water	8260D SIM	
MB 240-656375/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-656375/2	Lab Control Sample	Total/NA	Water	8260D SIM	
240-224387-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-224387-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

### Analysis Batch: 656416

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224380-1	TRIP BLANK_85	Total/NA	Water	8260D	
240-224380-2	MW-130S_050925	Total/NA	Water	8260D	
MB 240-656416/8	Method Blank	Total/NA	Water	8260D	
LCS 240-656416/4	Lab Control Sample	Total/NA	Water	8260D	
240-224347-B-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-224347-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

# Lab Chronicle

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

Job ID: 240-224380-1

**Client Sample ID: TRIP BLANK\_85**

**Lab Sample ID: 240-224380-1**

Date Collected: 05/09/25 00:00

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	656416	R5XG	EET CLE	05/17/25 12:27

**Client Sample ID: MW-130S\_050925**

**Lab Sample ID: 240-224380-2**

Date Collected: 05/09/25 11:30

Matrix: Water

Date Received: 05/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	656416	R5XG	EET CLE	05/17/25 19:44
Total/NA	Analysis	8260D SIM		1	656375	R5XG	EET CLE	05/17/25 03:15

**Laboratory References:**

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



# Accreditation/Certification Summary

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

Job ID: 240-224380-1

## 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
Iowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-28-26
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	04-01-26
North Dakota	State	R-244	02-27-26
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
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
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



## Chain of Custody Record

TestAmerica Laboratory location: Farmington Hills — 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

<b>Client Contact</b>			<b>Regulatory program:</b> <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other												<b>TestAmerica Laboratories, Inc.</b>							
Company Name: Arcadis			Client Project Manager: Megan Meckley				Site Contact: Samantha Szpachler				Lab Contact: Mike DelMonico				COC No:							
Address: 28550 Cabot Drive, Suite 500			Telephone: 248-994-2240				Telephone: 248-994-2240				Telephone: 330-497-9396				1 of 1 COCs							
City/State/Zip: Novi, MI, 48377			Email: megan.meckley@arcadis.com				<b>Analysis Turnaround Time</b>				<b>Analyses</b>				For lab use only							
Phone: 248-994-2240			Sampler Name: Kaylee DeRoo				TAT if different from below				Filtered Sample (Y/N) Composite-C/Grab-G 1,1-DCE 8260D cis-1,2-DCE 8260D Trans-1,2-DCE 8260D PCE 8260D TCE 8260D Vinyl Chloride 8260D 1,4-Dioxane 8260D SIM				Walk-in client							
Project Name: Ford LTP			Method of Shipment/Carrier:				10 day								Lab sampling							
Project Number: 30251157.401.04			Shipping/Tracking No:				<input type="checkbox"/> 3 weeks				Job/SDG No:				Sample Specific Notes / Special Instructions:							
PO # US3460023914			Matrix				<input checked="" type="checkbox"/> 2 weeks															
Sample Identification			Sample Date		Sample Time		Air		Aqueous		Sediment		Solid		Other:		Containers & Preservatives					
							H2SO4		HNO3		HCl		NaOH		ZnAc/NaOH		Unpres				Other:	
TRIP BLANK_ 85			----		---		1										1		NG X X X X X X		1 Trip Blank	
MW-1305_050425			5/9/25		1130		6										6		NG X X X X X X		3 VOAs for 8260D 3 VOAs for 8260D SIM	
160 5/9/25																						
Possible Hazard Identification			Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)																			
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months																			
Special Instructions/QC Requirements & Comments: 34600 Beacon			Submit all results through Cadena at jtomalia@cadenaco.com, Cadena #E203728 Level IV Reporting requested.																			
Relinquished by: Kaylee DeRoo			Company: Arcadis			Date/Time: 5/9/25 1426			Received by: Novi Cold Storage			Company: Arcadis			Date/Time: 5/9/25 1426							
Relinquished by: [Signature]			Company: Arcadis			Date/Time: 5/12/25 1625			Received by: [Signature]			Company: EPA			Date/Time: 5/12/25							
Relinquished by: [Signature]			Company: EPA			Date/Time: 5/12/25 1645			Received in Laboratory by: [Signature]			Company: EPA			Date/Time: 5/14/25 800							



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- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Eurofins - Cleveland Sample Receipt Form/Narrative

Barberton Facility

Client Arco's

Site Name

Cooler unpacked by

Cooler Received on 5-14-25

Opened on 5-14-25

FedEx: 1<sup>st</sup> Grd Exp UPS FAS Waypoint

Client Drop Off

Other

Receipt After-hours Drop-off Date/Time

Storage Location

Eurofins Cooler #

Foam Box

Client Cooler

Box

Other

Packing material used

Bubble Wrap

Foam

Plastic Bag

None

Other

COOLANT

Wet Ice

Blue Ice

Dry Ice

Water

None

1 Cooler temperature upon receipt

IR GUN # 13

(CF 70.5°C)

Observed Cooler Temp

See Multiple Cooler Form

°C Corrected Cooler Temp

°C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 2

-Were the seals on the outside of the cooler(s) signed & dated?

Yes  No NA

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?

Yes  No  NA

-Were tamper/custody seals intact and uncompromised?

Yes  No NA

3 Shippers' packing slip attached to the cooler(s)?

Yes  No  NA

4 Did custody papers accompany the sample(s)?

Yes  No  NA

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

Yes  No  NA

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

Yes  No  NA

7 Did all bottles arrive in good condition (Unbroken)?

Yes  No  NA

8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?

Yes  No  NA

9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?

Yes  No  NA

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

Yes  No  NA

11 Sufficient quantity received to perform indicated analyses?

Yes  No  NA

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

Yes  No  NA

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

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

Yes  No  NA

pH Strip Lot# HC457151

14 Were VOAs on the COC?

Yes  No  NA

15 Were air bubbles >6 mm in any VOA vials?  Larger than this

Yes  No  NA

16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #

Yes  No  NA

17 Was a LL Hg or Me Hg trip blank present?

Yes  No  NA

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other

Concerning \_\_\_\_\_

18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES  additional next page

Labeled by:

Labels Verified by

19 SAMPLE CONDITION

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)

20. SAMPLE PRESERVATION

Sample(s) \_\_\_\_\_ were further preserved in the laboratory

Time preserved. \_\_\_\_\_ Preservative(s) added/Lot number(s): \_\_\_\_\_

VOA Sample Preservation - Date/Time VOAs Frozen. \_\_\_\_\_



## Temperature readings

5/20/2025

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservation</u> <u>Temp</u>	<u>Preservation</u> <u>Added</u>	<u>Preservation</u> <u>Lot Number</u>
TRIP BLANK_85	240-224380-A-1	Voa Vial 40ml - Hydrochloric Acid				
MW-130S_050925	240-224380-A-2	Voa Vial 40ml - Hydrochloric Acid				
MW-130S_050925	240-224380-B-2	Voa Vial 40ml - Hydrochloric Acid				
MW-130S_050925	240-224380-C-2	Voa Vial 40ml - Hydrochloric Acid				
MW-130S_050925	240-224380-D-2	Voa Vial 40ml - Hydrochloric Acid				
MW-130S_050925	240-224380-E-2	Voa Vial 40ml - Hydrochloric Acid				
MW-130S_050925	240-224380-F-2	Voa Vial 40ml - Hydrochloric Acid				

# DATA VERIFICATION REPORT



May 20, 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)  
Event Specific Scope of Work References: Sample COC  
Laboratory: Eurofins Environment Testing LLC - Cleveland  
Laboratory submittal: 224380-1  
Sample date: 2025-05-09  
Report received by CADENA: 2025-05-20  
Initial Data Verification completed by CADENA: 2025-05-20  
Number of Samples:2  
Sample Matrices:Water  
Test Categories:GCMS VOC  
**Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.**

There were no significant QC anomalies or exceptions to report.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

## CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	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 contaminants) 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.
E	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 contaminants) 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: 224380-1

**Sample Name:** TRIP BLANK\_85                      MW-130S\_050925  
**Lab Sample ID:** 2402243801                      2402243802  
**Sample Date:** 5/9/2025                              5/9/2025

Analyte	Cas No.	Report		Valid		Report		Valid		
		Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	
<b>GC/MS VOC</b>										
<u>OSW-8260D</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	---	1.5	1.0	ug/l	---	
<u>OSW-8260DSIM</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 # 240-224380-1

CADENA Verification Report: 2025-05-19

Analyses Performed By:  
Eurofins Cleveland  
Barberton, Ohio

Report # 59687R  
Review Level: Tier III  
Project: 30251157.401.02

## DATA REVIEW

### SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-224380-1 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 Collection Date	Parent Sample	Analysis	
					VOC	VOC SIM
TRIP BLANK_85	240-224380-1	Water	05/09/2025		X	
MW-130S_050925	240-224380-2	Water	05/09/2025		X	X

## DATA REVIEW

### ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of Quality Assurance or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

## DATA REVIEW

### 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.

## DATA REVIEW

### 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.

## **DATA REVIEW**

### **6. Compound Identification**

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

### **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 REVIEW

### DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
<b>GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)</b>					
<b>Tier II Validation</b>					
Holding times/Preservation		X		X	
<b>Tier III Validation</b>					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Field Duplicate RPD	X				X
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation


%R Percent recovery

RPD Relative percent difference

%D Percent difference

## DATA REVIEW

VALIDATION PERFORMED BY: Febin J S

SIGNATURE: 

DATE: June 17, 2025

PEER REVIEW: Andrew Korycinski

DATE: June 22, 2025



**NO CORRECTIONS/QUALIFERS ADDED  
TO SAMPLE ANALYSIS DATA SHEETS**





# Definitions/Glossary

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

Job ID: 240-224380-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
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

# Client Sample Results

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

Job ID: 240-224380-1

**Client Sample ID: TRIP BLANK\_85**

**Lab Sample ID: 240-224380-1**

Date Collected: 05/09/25 00:00

Matrix: Water

Date Received: 05/14/25 08:00

**Method: SW846 8260D - Volatile Organic Compounds 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			05/17/25 12:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/17/25 12:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/17/25 12:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/17/25 12:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/17/25 12:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/17/25 12:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		05/17/25 12:27	1
4-Bromofluorobenzene (Surr)	81		56 - 136		05/17/25 12:27	1
Toluene-d8 (Surr)	94		78 - 122		05/17/25 12:27	1
Dibromofluoromethane (Surr)	103		73 - 120		05/17/25 12:27	1

# Client Sample Results

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

Job ID: 240-224380-1

**Client Sample ID: MW-130S\_050925**

**Lab Sample ID: 240-224380-2**

Date Collected: 05/09/25 11:30

Matrix: Water

Date Received: 05/14/25 08:00

**Method: SW846 8260D SIM - Volatile Organic Compounds (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			05/17/25 03:15	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	76		68 - 127					05/17/25 03:15	1

**Method: SW846 8260D - Volatile Organic Compounds 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			05/17/25 19:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/17/25 19:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/17/25 19:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/17/25 19:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/17/25 19:44	1
<b>Vinyl chloride</b>	<b>1.5</b>		1.0	0.45	ug/L			05/17/25 19:44	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	104		62 - 137					05/17/25 19:44	1
4-Bromofluorobenzene (Surr)	78		56 - 136					05/17/25 19:44	1
Toluene-d8 (Surr)	93		78 - 122					05/17/25 19:44	1
Dibromofluoromethane (Surr)	104		73 - 120					05/17/25 19:44	1