

# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

Ford LTP

## JOB NUMBER

240-237862-1

# 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



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# Definitions/Glossary

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

Job ID: 240-237862-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

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: 240-237862-1

**Job ID: 240-237862-1**

**Eurofins Cleveland**

## Job Narrative 240-237862-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

### Receipt

The samples were received on 11/15/2025 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 3.9°C and 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: 240-237862-1

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



# Sample Summary

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

Job ID: 240-237862-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-237862-1	TRIP BLANK_135	Water	11/13/25 00:00	11/15/25 08:00	Michigan
240-237862-2	MW-101S_111325	Water	11/13/25 09:30	11/15/25 08:00	Michigan
240-237862-3	MW-100S_111325	Water	11/13/25 10:30	11/15/25 08:00	Michigan
240-237862-4	MW-75SR_111325	Water	11/13/25 11:30	11/15/25 08:00	Michigan
240-237862-5	MW-75D_111325	Water	11/13/25 13:00	11/15/25 08:00	Michigan
240-237862-6	MW-99S_111325	Water	11/13/25 14:15	11/15/25 08:00	Michigan
240-237862-7	DUP-08	Water	11/13/25 00:00	11/15/25 08:00	Michigan
240-237862-8	DUP-13	Water	11/13/25 00:00	11/15/25 08:00	Michigan

- 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: 240-237862-1

## Client Sample ID: TRIP BLANK\_135

Lab Sample ID: 240-237862-1

No Detections.

## Client Sample ID: MW-101S\_111325

Lab Sample ID: 240-237862-2

No Detections.

## Client Sample ID: MW-100S\_111325

Lab Sample ID: 240-237862-3

No Detections.

## Client Sample ID: MW-75SR\_111325

Lab Sample ID: 240-237862-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.6		1.0	0.45	ug/L	1		8260D	Total/NA

## Client Sample ID: MW-75D\_111325

Lab Sample ID: 240-237862-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.8		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	1.6		1.0	0.45	ug/L	1		8260D	Total/NA

## Client Sample ID: MW-99S\_111325

Lab Sample ID: 240-237862-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.8	J	2.0	0.86	ug/L	1		8260D SIM	Total/NA
cis-1,2-Dichloroethene	2.0		1.0	0.46	ug/L	1		8260D	Total/NA

## Client Sample ID: DUP-08

Lab Sample ID: 240-237862-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.8		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	1.7		1.0	0.45	ug/L	1		8260D	Total/NA

## Client Sample ID: DUP-13

Lab Sample ID: 240-237862-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.7		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: 240-237862-1

**Client Sample ID: TRIP BLANK\_135**

**Lab Sample ID: 240-237862-1**

Date Collected: 11/13/25 00:00

Matrix: Water

Date Received: 11/15/25 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			11/20/25 04:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 04:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 04:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 04:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 04:31	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/25 04:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137		11/20/25 04:31	1
4-Bromofluorobenzene (Surr)	97		56 - 136		11/20/25 04:31	1
Toluene-d8 (Surr)	88		78 - 122		11/20/25 04:31	1
Dibromofluoromethane (Surr)	91		73 - 120		11/20/25 04:31	1

# Client Sample Results

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

Job ID: 240-237862-1

**Client Sample ID: MW-101S\_111325**

**Lab Sample ID: 240-237862-2**

Date Collected: 11/13/25 09:30

Matrix: Water

Date Received: 11/15/25 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			11/22/25 11:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 136					11/22/25 11:51	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			11/20/25 04:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 04:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 04:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 04:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 04:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/25 04:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		62 - 137					11/20/25 04:54	1
4-Bromofluorobenzene (Surr)	93		56 - 136					11/20/25 04:54	1
Toluene-d8 (Surr)	86		78 - 122					11/20/25 04:54	1
Dibromofluoromethane (Surr)	88		73 - 120					11/20/25 04:54	1

# Client Sample Results

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

Job ID: 240-237862-1

**Client Sample ID: MW-100S\_111325**

**Lab Sample ID: 240-237862-3**

Date Collected: 11/13/25 10:30

Matrix: Water

Date Received: 11/15/25 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			11/22/25 12:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 136					11/22/25 12:14	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			11/20/25 05:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 05:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 05:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 05:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 05:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/25 05:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137					11/20/25 05:17	1
4-Bromofluorobenzene (Surr)	93		56 - 136					11/20/25 05:17	1
Toluene-d8 (Surr)	89		78 - 122					11/20/25 05:17	1
Dibromofluoromethane (Surr)	89		73 - 120					11/20/25 05:17	1

# Client Sample Results

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

Job ID: 240-237862-1

**Client Sample ID: MW-75SR\_111325**

**Lab Sample ID: 240-237862-4**

Date Collected: 11/13/25 11:30

Matrix: Water

Date Received: 11/15/25 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			11/22/25 12:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 136					11/22/25 12:38	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			11/20/25 05:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 05:40	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 05:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 05:40	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 05:40	1
<b>Vinyl chloride</b>	<b>1.6</b>		1.0	0.45	ug/L			11/20/25 05:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		62 - 137					11/20/25 05:40	1
4-Bromofluorobenzene (Surr)	96		56 - 136					11/20/25 05:40	1
Toluene-d8 (Surr)	89		78 - 122					11/20/25 05:40	1
Dibromofluoromethane (Surr)	87		73 - 120					11/20/25 05:40	1

# Client Sample Results

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

Job ID: 240-237862-1

**Client Sample ID: MW-75D\_111325**

**Lab Sample ID: 240-237862-5**

Date Collected: 11/13/25 13:00

Matrix: Water

Date Received: 11/15/25 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	2.8		2.0	0.86	ug/L			11/22/25 13:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 136					11/22/25 13:01	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			11/20/25 06:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 06:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 06:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 06:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 06:03	1
Vinyl chloride	1.6		1.0	0.45	ug/L			11/20/25 06:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137					11/20/25 06:03	1
4-Bromofluorobenzene (Surr)	95		56 - 136					11/20/25 06:03	1
Toluene-d8 (Surr)	88		78 - 122					11/20/25 06:03	1
Dibromofluoromethane (Surr)	89		73 - 120					11/20/25 06:03	1

# Client Sample Results

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

Job ID: 240-237862-1

**Client Sample ID: MW-99S\_111325**

**Lab Sample ID: 240-237862-6**

Date Collected: 11/13/25 14:15

Matrix: Water

Date Received: 11/15/25 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	1.8	J	2.0	0.86	ug/L			11/22/25 13:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 136					11/22/25 13:25	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			11/20/25 06:26	1
cis-1,2-Dichloroethene	2.0		1.0	0.46	ug/L			11/20/25 06:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 06:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 06:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 06:26	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/25 06:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137					11/20/25 06:26	1
4-Bromofluorobenzene (Surr)	97		56 - 136					11/20/25 06:26	1
Toluene-d8 (Surr)	89		78 - 122					11/20/25 06:26	1
Dibromofluoromethane (Surr)	89		73 - 120					11/20/25 06:26	1

# Client Sample Results

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

Job ID: 240-237862-1

**Client Sample ID: DUP-08**

**Lab Sample ID: 240-237862-7**

Date Collected: 11/13/25 00:00

Matrix: Water

Date Received: 11/15/25 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	2.8		2.0	0.86	ug/L			11/22/25 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 136					11/22/25 13:48	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			11/20/25 06:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 06:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 06:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 06:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 06:49	1
Vinyl chloride	1.7		1.0	0.45	ug/L			11/20/25 06:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		62 - 137					11/20/25 06:49	1
4-Bromofluorobenzene (Surr)	95		56 - 136					11/20/25 06:49	1
Toluene-d8 (Surr)	90		78 - 122					11/20/25 06:49	1
Dibromofluoromethane (Surr)	87		73 - 120					11/20/25 06:49	1

# Client Sample Results

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

Job ID: 240-237862-1

**Client Sample ID: DUP-13**

**Lab Sample ID: 240-237862-8**

Date Collected: 11/13/25 00:00

Matrix: Water

Date Received: 11/15/25 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			11/22/25 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 136					11/22/25 14:12	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			11/20/25 07:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 07:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 07:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 07:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 07:12	1
<b>Vinyl chloride</b>	<b>1.7</b>		1.0	0.45	ug/L			11/20/25 07:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137					11/20/25 07:12	1
4-Bromofluorobenzene (Surr)	99		56 - 136					11/20/25 07:12	1
Toluene-d8 (Surr)	92		78 - 122					11/20/25 07:12	1
Dibromofluoromethane (Surr)	93		73 - 120					11/20/25 07:12	1

# Surrogate Summary

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

Job ID: 240-237862-1

## 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)
240-237860-B-3 MS	Matrix Spike	89	101	92	86
240-237860-B-3 MSD	Matrix Spike Duplicate	90	99	91	90
240-237862-1	TRIP BLANK_135	95	97	88	91
240-237862-2	MW-101S_111325	93	93	86	88
240-237862-3	MW-100S_111325	91	93	89	89
240-237862-4	MW-75SR_111325	93	96	89	87
240-237862-5	MW-75D_111325	94	95	88	89
240-237862-6	MW-99S_111325	92	97	89	89
240-237862-7	DUP-08	90	95	90	87
240-237862-8	DUP-13	94	99	92	93
LCS 240-681263/4	Lab Control Sample	91	100	92	87
MB 240-681263/8	Method Blank	90	94	89	88

**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 (64-136)
240-237860-A-3 MS	Matrix Spike	101
240-237860-A-3 MSD	Matrix Spike Duplicate	111
240-237862-2	MW-101S_111325	104
240-237862-3	MW-100S_111325	103
240-237862-4	MW-75SR_111325	104
240-237862-5	MW-75D_111325	105
240-237862-6	MW-99S_111325	106
240-237862-7	DUP-08	106
240-237862-8	DUP-13	107
LCS 240-681709/5	Lab Control Sample	103
MB 240-681709/7	Method Blank	105

**Surrogate Legend**

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

# QC Sample Results

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

Job ID: 240-237862-1

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

Lab Sample ID: MB 240-681263/8

Matrix: Water

Analysis Batch: 681263

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			11/19/25 22:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/25 22:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 22:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/25 22:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 22:46	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/25 22:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	90		62 - 137		11/19/25 22:46	1
4-Bromofluorobenzene (Surr)	94		56 - 136		11/19/25 22:46	1
Toluene-d8 (Surr)	89		78 - 122		11/19/25 22:46	1
Dibromofluoromethane (Surr)	88		73 - 120		11/19/25 22:46	1

Lab Sample ID: LCS 240-681263/4

Matrix: Water

Analysis Batch: 681263

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	77 - 123
Tetrachloroethene	25.0	21.4		ug/L		86	76 - 123
trans-1,2-Dichloroethene	25.0	21.4		ug/L		86	75 - 124
Trichloroethene	25.0	24.8		ug/L		99	70 - 122
Vinyl chloride	12.5	9.68		ug/L		77	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	87		73 - 120

Lab Sample ID: 240-237860-B-3 MS

Matrix: Water

Analysis Batch: 681263

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	25.0	19.9		ug/L		80	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	23.7		ug/L		95	66 - 128
Tetrachloroethene	1.0	U	25.0	19.5		ug/L		78	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	21.2		ug/L		85	56 - 136
Trichloroethene	1.0	U	25.0	22.8		ug/L		91	61 - 124
Vinyl chloride	1.2		12.5	10.3		ug/L		73	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	89		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	92		78 - 122

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# QC Sample Results

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

Job ID: 240-237862-1

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

Lab Sample ID: 240-237860-B-3 MS

Matrix: Water

Analysis Batch: 681263

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	86		73 - 120

Lab Sample ID: 240-237860-B-3 MSD

Matrix: Water

Analysis Batch: 681263

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	1.0	U	25.0	22.8		ug/L		91	56 - 135	14	26
cis-1,2-Dichloroethene	1.0	U	25.0	24.1		ug/L		97	66 - 128	2	14
Tetrachloroethene	1.0	U	25.0	20.7		ug/L		83	62 - 131	6	20
trans-1,2-Dichloroethene	1.0	U	25.0	22.0		ug/L		88	56 - 136	4	15
Trichloroethene	1.0	U	25.0	24.9		ug/L		99	61 - 124	9	15
Vinyl chloride	1.2		12.5	11.2		ug/L		80	43 - 157	9	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	91		78 - 122
Dibromofluoromethane (Surr)	90		73 - 120

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

Lab Sample ID: MB 240-681709/7

Matrix: Water

Analysis Batch: 681709

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/22/25 10:17	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	105		64 - 136		11/22/25 10:17	1

Lab Sample ID: LCS 240-681709/5

Matrix: Water

Analysis Batch: 681709

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	10.0	8.35		ug/L		83	68 - 120

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		64 - 136

Lab Sample ID: 240-237860-A-3 MS

Matrix: Water

Analysis Batch: 681709

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	22		10.0	32.3		ug/L		105	45 - 145

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# QC Sample Results

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

Job ID: 240-237862-1

## 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)	101		64 - 136

**Lab Sample ID: 240-237860-A-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 681709**

**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	22		10.0	32.6		ug/L		108	45 - 145	1	19

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	111		64 - 136



# QC Association Summary

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

Job ID: 240-237862-1

## GC/MS VOA

### Analysis Batch: 681263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237862-1	TRIP BLANK_135	Total/NA	Water	8260D	
240-237862-2	MW-101S_111325	Total/NA	Water	8260D	
240-237862-3	MW-100S_111325	Total/NA	Water	8260D	
240-237862-4	MW-75SR_111325	Total/NA	Water	8260D	
240-237862-5	MW-75D_111325	Total/NA	Water	8260D	
240-237862-6	MW-99S_111325	Total/NA	Water	8260D	
240-237862-7	DUP-08	Total/NA	Water	8260D	
240-237862-8	DUP-13	Total/NA	Water	8260D	
MB 240-681263/8	Method Blank	Total/NA	Water	8260D	
LCS 240-681263/4	Lab Control Sample	Total/NA	Water	8260D	
240-237860-B-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-237860-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

### Analysis Batch: 681709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237862-2	MW-101S_111325	Total/NA	Water	8260D SIM	
240-237862-3	MW-100S_111325	Total/NA	Water	8260D SIM	
240-237862-4	MW-75SR_111325	Total/NA	Water	8260D SIM	
240-237862-5	MW-75D_111325	Total/NA	Water	8260D SIM	
240-237862-6	MW-99S_111325	Total/NA	Water	8260D SIM	
240-237862-7	DUP-08	Total/NA	Water	8260D SIM	
240-237862-8	DUP-13	Total/NA	Water	8260D SIM	
MB 240-681709/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-681709/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-237860-A-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-237860-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

# Lab Chronicle

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

Job ID: 240-237862-1

**Client Sample ID: TRIP BLANK\_135**

**Lab Sample ID: 240-237862-1**

Date Collected: 11/13/25 00:00

Matrix: Water

Date Received: 11/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681263	LEE	EET CLE	11/20/25 04:31

**Client Sample ID: MW-101S\_111325**

**Lab Sample ID: 240-237862-2**

Date Collected: 11/13/25 09:30

Matrix: Water

Date Received: 11/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681263	LEE	EET CLE	11/20/25 04:54
Total/NA	Analysis	8260D SIM		1	681709	R5XG	EET CLE	11/22/25 11:51

**Client Sample ID: MW-100S\_111325**

**Lab Sample ID: 240-237862-3**

Date Collected: 11/13/25 10:30

Matrix: Water

Date Received: 11/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681263	LEE	EET CLE	11/20/25 05:17
Total/NA	Analysis	8260D SIM		1	681709	R5XG	EET CLE	11/22/25 12:14

**Client Sample ID: MW-75SR\_111325**

**Lab Sample ID: 240-237862-4**

Date Collected: 11/13/25 11:30

Matrix: Water

Date Received: 11/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681263	LEE	EET CLE	11/20/25 05:40
Total/NA	Analysis	8260D SIM		1	681709	R5XG	EET CLE	11/22/25 12:38

**Client Sample ID: MW-75D\_111325**

**Lab Sample ID: 240-237862-5**

Date Collected: 11/13/25 13:00

Matrix: Water

Date Received: 11/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681263	LEE	EET CLE	11/20/25 06:03
Total/NA	Analysis	8260D SIM		1	681709	R5XG	EET CLE	11/22/25 13:01

**Client Sample ID: MW-99S\_111325**

**Lab Sample ID: 240-237862-6**

Date Collected: 11/13/25 14:15

Matrix: Water

Date Received: 11/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681263	LEE	EET CLE	11/20/25 06:26
Total/NA	Analysis	8260D SIM		1	681709	R5XG	EET CLE	11/22/25 13:25

# Lab Chronicle

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

Job ID: 240-237862-1

## Client Sample ID: DUP-08

Lab Sample ID: 240-237862-7

Date Collected: 11/13/25 00:00

Matrix: Water

Date Received: 11/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681263	LEE	EET CLE	11/20/25 06:49
Total/NA	Analysis	8260D SIM		1	681709	R5XG	EET CLE	11/22/25 13:48

## Client Sample ID: DUP-13

Lab Sample ID: 240-237862-8

Date Collected: 11/13/25 00:00

Matrix: Water

Date Received: 11/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681263	LEE	EET CLE	11/20/25 07:12
Total/NA	Analysis	8260D SIM		1	681709	R5XG	EET CLE	11/22/25 14:12

### Laboratory References:

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

# Accreditation/Certification Summary

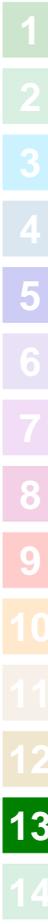
Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237862-1

## 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	09-30-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-26
Iowa	State	421	06-01-27
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	2250	09-30-26
New Jersey	NELAP	OH001	06-30-26
New York	NELAP	10975	04-01-26
North Dakota	State	R-244	02-27-26
Ohio	State	8303	02-27-26
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-26
Texas	NELAP	T104704517	08-31-26
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-30-26
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-26





Eurofins - Cleveland Sample Receipt Form/Narrative  
 Barberton Facility

Login #

Client Alc/d/s

Site Name

Cooler unpacked by: JKH

Cooler Received on 11/15/25

Opened on 11/18/25

FedEx. 1<sup>st</sup> Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time

Storage Location

Eurofins Cooler # EC 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  See Multiple Cooler Form  
 IR GUN # 17 (CF +0.7 °C) Observed Cooler Temp \_\_\_\_\_ °C Corrected Cooler Temp \_\_\_\_\_ °C

Tests that are not checked for pH by Receiving-  
 VOAs  
 Oil and Grease  
 TOC

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1  Yes  No  
 -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
  - 4 Did custody papers accompany the sample(s)?  Yes  No
  - 5 Were the custody papers relinquished & signed in the appropriate place?  Yes  No
  - 6 Was/were the person(s) who collected the samples clearly identified on the COC?  Yes  No
  - 7 Did all bottles arrive in good condition (Unbroken)?  Yes  No
  - 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?  Yes  No
  - 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
  - 10 Were correct bottle(s) used for the test(s) indicated?  Yes  No
  - 11 Sufficient quantity received to perform indicated analyses?  Yes  No
  12. Are these work share samples and all listed on the COC?  Yes  No  
 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# HCS67196
  - 14 Were VOAs on the COC?  Yes  No
  - 15 Were air bubbles >6 mm in any VOA vials?  Larger than this  Yes  NA
  - 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # covered  Yes  No
  - 17 Was a LL Hg or Me Hg trip blank present?  Yes  No
- 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 \_\_\_\_\_



# LogIn Container Summary Report

240-237862

Temperature readings

Client Sample ID	Lab ID	Container Type	Container	Preservation	Preservation
			pH	Temp	Added
					Lot Number
TRIP BLANK_135	240-237862-A-1	Voa Vial 40ml - Hydrochloric Acid			
MW-101S_111325	240-237862-A-2	Voa Vial 40ml - Hydrochloric Acid			
MW-101S_111325	240-237862-B-2	Voa Vial 40ml - Hydrochloric Acid			
MW-101S_111325	240-237862-C-2	Voa Vial 40ml - Hydrochloric Acid			
MW-101S_111325	240-237862-D-2	Voa Vial 40ml - Hydrochloric Acid			
MW-101S_111325	240-237862-E-2	Voa Vial 40ml - Hydrochloric Acid			
MW-101S_111325	240-237862-F-2	Voa Vial 40ml - Hydrochloric Acid			
MW-100S_111325	240-237862-A-3	Voa Vial 40ml - Hydrochloric Acid			
MW-100S_111325	240-237862-B-3	Voa Vial 40ml - Hydrochloric Acid			
MW-100S_111325	240-237862-C-3	Voa Vial 40ml - Hydrochloric Acid			
MW-100S_111325	240-237862-D-3	Voa Vial 40ml - Hydrochloric Acid			
MW-100S_111325	240-237862-E-3	Voa Vial 40ml - Hydrochloric Acid			
MW-100S_111325	240-237862-F-3	Voa Vial 40ml - Hydrochloric Acid			
MW-75SR_111325	240-237862-A-4	Voa Vial 40ml - Hydrochloric Acid			
MW-75SR_111325	240 237862-B-4	Voa Vial 40ml - Hydrochloric Acid			
MW-75SR_111325	240-237862-C-4	Voa Vial 40ml - Hydrochloric Acid			
MW-75SR_111325	240-237862-D-4	Voa Vial 40ml - Hydrochloric Acid			
MW-75SR_111325	240-237862-E-4	Voa Vial 40ml - Hydrochloric Acid			
MW-75SR_111325	240-237862-F-4	Voa Vial 40ml - Hydrochloric Acid			
MW-75D_111325	240-237862-A-5	Voa Vial 40ml - Hydrochloric Acid			
MW-75D_111325	240-237862-B-5	Voa Vial 40ml - Hydrochloric Acid			
MW-75D_111325	240-237862-C-5	Voa Vial 40ml - Hydrochloric Acid			
MW-75D_111325	240-237862-D-5	Voa Vial 40ml - Hydrochloric Acid			
MW-75D_111325	240-237862-E-5	Voa Vial 40ml - Hydrochloric Acid			
MW-75D_111325	240-237862-F-5	Voa Vial 40ml - Hydrochloric Acid			
MW-99S_111325	240-237862-A-6	Voa Vial 40ml - Hydrochloric Acid			
MW-99S_111325	240-237862-B-6	Voa Vial 40ml - Hydrochloric Acid			
MW-99S_111325	240-237862-C-6	Voa Vial 40ml - Hydrochloric Acid			
MW-99S_111325	240-237862-D-6	Voa Vial 40ml - Hydrochloric Acid			
MW-99S_111325	240 237862-E-6	Voa Vial 40ml - Hydrochloric Acid			
MW-99S_111325	240-237862-F-6	Voa Vial 40ml - Hydrochloric Acid			
DUP-08	240-237862-A-7	Voa Vial 40ml - Hydrochloric Acid			
DUP-08	240-237862-B 7	Voa Vial 40ml - Hydrochloric Acid			
DUP-08	240-237862-C-7	Voa Vial 40ml - Hydrochloric Acid			
DUP-08	240-237862-D-7	Voa Vial 40ml Hydrochloric Acid			



<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>	<u>Preservation</u>	<u>Preservation</u>	<u>Lot Number</u>
			<u>pH</u>	<u>Temp</u>	<u>Added</u>	
DUP-08	240-237862-E-7	Voa Vial 40ml - Hydrochloric Acid				
DUP-08	240-237862-F-7	Voa Vial 40ml - Hydrochloric Acid				
DUP-13	240-237862-A-8	Voa Vial 40ml - Hydrochloric Acid				
DUP-13	240-237862-B-8	Voa Vial 40ml - Hydrochloric Acid				
DUP-13	240-237862-C-8	Voa Vial 40ml - Hydrochloric Acid				
DUP-13	240-237862-D-8	Voa Vial 40ml - Hydrochloric Acid				
DUP-13	240-237862-E-8	Voa Vial 40ml - Hydrochloric Acid				
DUP-13	240-237862-F-8	Voa Vial 40ml - Hydrochloric Acid				

# DATA VERIFICATION REPORT



November 25, 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 LTP  
Event Specific Scope of Work References: Sample COC  
Laboratory: Eurofins Environment Testing LLC - Cleveland  
Laboratory submittal: 237862-1  
Sample date: 2025-11-13  
Report received by CADENA: 2025-11-25  
Initial Data Verification completed by CADENA: 2025-11-25  
Number of Samples:8  
Sample Matrices:Water  
Test Categories:GCMS VOC  
**Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.**

There were no significant QC anomalies or exceptions to report.

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

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

## CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
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: 237862-1

<b>Sample Name:</b> TRIP BLANK_135	MW-101S_111325	MW-100S_111325	MW-75SR_111325	MW-75D_111325	MW-99S_111325	DUP-08	DUP-13
<b>Lab Sample ID:</b> 2402378621	2402378622	2402378623	2402378624	2402378625	2402378626	2402378627	2402378628
<b>Sample Date:</b> 11/13/2025	11/13/2025	11/13/2025	11/13/2025	11/13/2025	11/13/2025	11/13/2025	11/13/2025

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

### GC/MS VOC

#### OSW-8260D

1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	2.0	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	1.6	1.0	ug/l	---	1.6	1.0	ug/l	---	ND	1.0	ug/l	---	1.7	1.0	ug/l	---	1.7	1.0	ug/l	---

#### OSW-8260DSIM

1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---	2.8	2.0	ug/l	---	1.8	2.0	ug/l	J	2.8	2.0	ug/l	---	ND	2.0	ug/l	---
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# Ford Motor Company – Livonia Transmission Project

## Data Review

### Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG #240-237862-1

CADENA Verification Report: 2025-11-25

Analyses Performed By:  
Eurofins Cleveland  
Barberton, Ohio

Report # 62484R  
Review Level: Tier III  
Project: 30309849.401.02

## DATA REVIEW

### SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-237862-1 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_135	240-237862-1	Water	11/13/2025		X	
MW-101S_111325	240-237862-2	Water	11/13/2025		X	X
MW-100S_111325	240-237862-3	Water	11/13/2025		X	X
MW-75SR_111325	240-237862-4	Water	11/13/2025		X	X
MW-75D_111325	240-237862-5	Water	11/13/2025		X	X
MW-99S_111325	240-237862-6	Water	11/13/2025		X	X
DUP-08	240-237862-7	Water	11/13/2025	MW-75D_111325	X	X
DUP-13	240-237862-8	Water	11/13/2025	MW-75SR_111325	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 continuing 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 matrix 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 matrix.

Results for duplicate samples are summarized in the following table.

## DATA REVIEW

Sample ID/Duplicate ID	Compounds	Sample Result	Duplicate Result	RPD
MW-75D_111325/ DUP-08	1,4-Dioxane	2.8	2.8	AC
	Vinyl chloride	1.6	1.7	AC
MW-75SR_111325/ DUP-13	Vinyl chloride	1.6	1.7	AC

Note:

AC- Acceptable

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

### 6. Compound Identification

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

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: Pooja Parab

SIGNATURE:   
\_\_\_\_\_

DATE: January 5, 2026  
\_\_\_\_\_

PEER REVIEW: Andrew Korycinski

DATE: January 6, 2026  
\_\_\_\_\_

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





# Definitions/Glossary

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

Job ID: 240-237862-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

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: 240-237862-1

**Client Sample ID: TRIP BLANK\_135**

**Lab Sample ID: 240-237862-1**

Date Collected: 11/13/25 00:00

Matrix: Water

Date Received: 11/15/25 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			11/20/25 04:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 04:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 04:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 04:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 04:31	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/25 04:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137		11/20/25 04:31	1
4-Bromofluorobenzene (Surr)	97		56 - 136		11/20/25 04:31	1
Toluene-d8 (Surr)	88		78 - 122		11/20/25 04:31	1
Dibromofluoromethane (Surr)	91		73 - 120		11/20/25 04:31	1

# Client Sample Results

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

Job ID: 240-237862-1

**Client Sample ID: MW-101S\_111325**

**Lab Sample ID: 240-237862-2**

Date Collected: 11/13/25 09:30

Matrix: Water

Date Received: 11/15/25 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			11/22/25 11:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 136					11/22/25 11:51	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			11/20/25 04:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 04:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 04:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 04:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 04:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/25 04:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		62 - 137					11/20/25 04:54	1
4-Bromofluorobenzene (Surr)	93		56 - 136					11/20/25 04:54	1
Toluene-d8 (Surr)	86		78 - 122					11/20/25 04:54	1
Dibromofluoromethane (Surr)	88		73 - 120					11/20/25 04:54	1

# Client Sample Results

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

Job ID: 240-237862-1

**Client Sample ID: MW-100S\_111325**

**Lab Sample ID: 240-237862-3**

Date Collected: 11/13/25 10:30

Matrix: Water

Date Received: 11/15/25 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			11/22/25 12:14	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)	103		64 - 136					11/22/25 12:14	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			11/20/25 05:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 05:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 05:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 05:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 05:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/25 05:17	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)	91		62 - 137					11/20/25 05:17	1
4-Bromofluorobenzene (Surr)	93		56 - 136					11/20/25 05:17	1
Toluene-d8 (Surr)	89		78 - 122					11/20/25 05:17	1
Dibromofluoromethane (Surr)	89		73 - 120					11/20/25 05:17	1

# Client Sample Results

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

Job ID: 240-237862-1

**Client Sample ID: MW-75SR\_111325**

**Lab Sample ID: 240-237862-4**

Date Collected: 11/13/25 11:30

Matrix: Water

Date Received: 11/15/25 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			11/22/25 12:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 136					11/22/25 12:38	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			11/20/25 05:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 05:40	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 05:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 05:40	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 05:40	1
<b>Vinyl chloride</b>	<b>1.6</b>		1.0	0.45	ug/L			11/20/25 05:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		62 - 137					11/20/25 05:40	1
4-Bromofluorobenzene (Surr)	96		56 - 136					11/20/25 05:40	1
Toluene-d8 (Surr)	89		78 - 122					11/20/25 05:40	1
Dibromofluoromethane (Surr)	87		73 - 120					11/20/25 05:40	1

# Client Sample Results

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

Job ID: 240-237862-1

**Client Sample ID: MW-75D\_111325**

**Lab Sample ID: 240-237862-5**

Date Collected: 11/13/25 13:00

Matrix: Water

Date Received: 11/15/25 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	2.8		2.0	0.86	ug/L			11/22/25 13:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 136					11/22/25 13:01	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			11/20/25 06:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 06:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 06:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 06:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 06:03	1
Vinyl chloride	1.6		1.0	0.45	ug/L			11/20/25 06:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137					11/20/25 06:03	1
4-Bromofluorobenzene (Surr)	95		56 - 136					11/20/25 06:03	1
Toluene-d8 (Surr)	88		78 - 122					11/20/25 06:03	1
Dibromofluoromethane (Surr)	89		73 - 120					11/20/25 06:03	1

# Client Sample Results

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

Job ID: 240-237862-1

**Client Sample ID: MW-99S\_111325**

**Lab Sample ID: 240-237862-6**

Date Collected: 11/13/25 14:15

Matrix: Water

Date Received: 11/15/25 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	1.8	J	2.0	0.86	ug/L			11/22/25 13:25	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)	106		64 - 136					11/22/25 13:25	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			11/20/25 06:26	1
<b>cis-1,2-Dichloroethene</b>	<b>2.0</b>		1.0	0.46	ug/L			11/20/25 06:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 06:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 06:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 06:26	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/25 06:26	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)	92		62 - 137					11/20/25 06:26	1
4-Bromofluorobenzene (Surr)	97		56 - 136					11/20/25 06:26	1
Toluene-d8 (Surr)	89		78 - 122					11/20/25 06:26	1
Dibromofluoromethane (Surr)	89		73 - 120					11/20/25 06:26	1

# Client Sample Results

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

Job ID: 240-237862-1

**Client Sample ID: DUP-08**

**Lab Sample ID: 240-237862-7**

Date Collected: 11/13/25 00:00

Matrix: Water

Date Received: 11/15/25 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	2.8		2.0	0.86	ug/L			11/22/25 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 136					11/22/25 13:48	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			11/20/25 06:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 06:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 06:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 06:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 06:49	1
Vinyl chloride	1.7		1.0	0.45	ug/L			11/20/25 06:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		62 - 137					11/20/25 06:49	1
4-Bromofluorobenzene (Surr)	95		56 - 136					11/20/25 06:49	1
Toluene-d8 (Surr)	90		78 - 122					11/20/25 06:49	1
Dibromofluoromethane (Surr)	87		73 - 120					11/20/25 06:49	1

# Client Sample Results

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

Job ID: 240-237862-1

**Client Sample ID: DUP-13**

**Lab Sample ID: 240-237862-8**

Date Collected: 11/13/25 00:00

Matrix: Water

Date Received: 11/15/25 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			11/22/25 14:12	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)	107		64 - 136					11/22/25 14:12	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			11/20/25 07:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 07:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 07:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 07:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 07:12	1
<b>Vinyl chloride</b>	<b>1.7</b>		1.0	0.45	ug/L			11/20/25 07:12	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)	94		62 - 137					11/20/25 07:12	1
4-Bromofluorobenzene (Surr)	99		56 - 136					11/20/25 07:12	1
Toluene-d8 (Surr)	92		78 - 122					11/20/25 07:12	1
Dibromofluoromethane (Surr)	93		73 - 120					11/20/25 07:12	1