

# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

Ford LTP

## JOB NUMBER

240-237767-1

# Eurofins Cleveland

## Job Notes

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## Authorization



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# Definitions/Glossary

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

Job ID: 240-237767-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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: 240-237767-1

**Job ID: 240-237767-1**

**Eurofins Cleveland**

## Job Narrative 240-237767-1

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 11/14/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

### GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-680950 was outside the method criteria for the following analyte(s): Tetrachloroethene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 240-680950 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260D: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: (240-237298-C-1), (240-237298-C-1 MS) and (240-237298-C-1 MSD).

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: 240-237767-1

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: 240-237767-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-237767-1	TRIP BLANK_129	Water	11/12/25 00:00	11/14/25 08:00	Michigan
240-237767-2	MW-122_111225	Water	11/12/25 09:00	11/14/25 08:00	Michigan
240-237767-3	MW-55D_111225	Water	11/12/25 09:55	11/14/25 08:00	Michigan
240-237767-4	MW-55_111225	Water	11/12/25 10:45	11/14/25 08:00	Michigan
240-237767-5	MW-56_111225	Water	11/12/25 11:45	11/14/25 08:00	Michigan
240-237767-6	MW-49_111225	Water	11/12/25 12:50	11/14/25 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: 240-237767-1

## Client Sample ID: TRIP BLANK\_129

Lab Sample ID: 240-237767-1

No Detections.

## Client Sample ID: MW-122\_111225

Lab Sample ID: 240-237767-2

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

## Client Sample ID: MW-55D\_111225

Lab Sample ID: 240-237767-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.5		2.0	0.86	ug/L	1		8260D SIM	Total/NA

## Client Sample ID: MW-55\_111225

Lab Sample ID: 240-237767-4

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

## Client Sample ID: MW-56\_111225

Lab Sample ID: 240-237767-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.1	J	2.0	0.86	ug/L	1		8260D SIM	Total/NA
cis-1,2-Dichloroethene	1.1		1.0	0.46	ug/L	1		8260D	Total/NA

## Client Sample ID: MW-49\_111225

Lab Sample ID: 240-237767-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	14		2.0	0.86	ug/L	1		8260D SIM	Total/NA
cis-1,2-Dichloroethene	28000		1000	460	ug/L	1000		8260D	Total/NA
Vinyl chloride	7000		1000	450	ug/L	1000		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: 240-237767-1

**Client Sample ID: TRIP BLANK\_129**

**Lab Sample ID: 240-237767-1**

Date Collected: 11/12/25 00:00

Matrix: Water

Date Received: 11/14/25 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			11/18/25 15:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/25 15:24	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/25 15:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/25 15:24	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/18/25 15:24	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/18/25 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137		11/18/25 15:24	1
4-Bromofluorobenzene (Surr)	102		56 - 136		11/18/25 15:24	1
Toluene-d8 (Surr)	105		78 - 122		11/18/25 15:24	1
Dibromofluoromethane (Surr)	100		73 - 120		11/18/25 15:24	1

# Client Sample Results

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

Job ID: 240-237767-1

**Client Sample ID: MW-122\_111225**

**Lab Sample ID: 240-237767-2**

Date Collected: 11/12/25 09:00

Matrix: Water

Date Received: 11/14/25 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	1.0	J	2.0	0.86	ug/L			11/19/25 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 136					11/19/25 19:06	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			11/18/25 19:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/25 19:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/25 19:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/25 19:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/18/25 19:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/18/25 19:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		62 - 137					11/18/25 19:27	1
4-Bromofluorobenzene (Surr)	102		56 - 136					11/18/25 19:27	1
Toluene-d8 (Surr)	105		78 - 122					11/18/25 19:27	1
Dibromofluoromethane (Surr)	91		73 - 120					11/18/25 19:27	1

# Client Sample Results

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

Job ID: 240-237767-1

**Client Sample ID: MW-55D\_111225**

**Lab Sample ID: 240-237767-3**

Date Collected: 11/12/25 09:55

Matrix: Water

Date Received: 11/14/25 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	2.5		2.0	0.86	ug/L			11/19/25 19:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		64 - 136					11/19/25 19:29	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			11/19/25 14:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/25 14:47	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 14:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/25 14:47	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 14:47	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/25 14:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	129		62 - 137					11/19/25 14:47	1
4-Bromofluorobenzene (Surr)	95		56 - 136					11/19/25 14:47	1
Toluene-d8 (Surr)	102		78 - 122					11/19/25 14:47	1
Dibromofluoromethane (Surr)	112		73 - 120					11/19/25 14:47	1

# Client Sample Results

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

Job ID: 240-237767-1

**Client Sample ID: MW-55\_111225**

**Lab Sample ID: 240-237767-4**

Date Collected: 11/12/25 10:45

Matrix: Water

Date Received: 11/14/25 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	1.6	J	2.0	0.86	ug/L			11/19/25 19:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 136					11/19/25 19:53	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			11/19/25 15:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/25 15:11	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 15:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/25 15:11	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 15:11	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/25 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	129		62 - 137					11/19/25 15:11	1
4-Bromofluorobenzene (Surr)	90		56 - 136					11/19/25 15:11	1
Toluene-d8 (Surr)	97		78 - 122					11/19/25 15:11	1
Dibromofluoromethane (Surr)	112		73 - 120					11/19/25 15:11	1

# Client Sample Results

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

Job ID: 240-237767-1

**Client Sample ID: MW-56\_111225**

**Lab Sample ID: 240-237767-5**

Date Collected: 11/12/25 11:45

Matrix: Water

Date Received: 11/14/25 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	1.1	J	2.0	0.86	ug/L			11/19/25 20:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		64 - 136					11/19/25 20:16	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			11/19/25 15:36	1
cis-1,2-Dichloroethene	1.1		1.0	0.46	ug/L			11/19/25 15:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 15:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/25 15:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 15:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/25 15:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	127		62 - 137					11/19/25 15:36	1
4-Bromofluorobenzene (Surr)	93		56 - 136					11/19/25 15:36	1
Toluene-d8 (Surr)	98		78 - 122					11/19/25 15:36	1
Dibromofluoromethane (Surr)	115		73 - 120					11/19/25 15:36	1

# Client Sample Results

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

Job ID: 240-237767-1

**Client Sample ID: MW-49\_111225**

**Lab Sample ID: 240-237767-6**

Date Collected: 11/12/25 12:50

Matrix: Water

Date Received: 11/14/25 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	14		2.0	0.86	ug/L			11/19/25 20:40	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)	84		64 - 136					11/19/25 20:40	1

**Method: SW846 8260D - Volatile Organic Compounds by GC/MS**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1000	U	1000	490	ug/L			11/19/25 16:00	1000
cis-1,2-Dichloroethene	28000		1000	460	ug/L			11/19/25 16:00	1000
Tetrachloroethene	1000	U	1000	440	ug/L			11/19/25 16:00	1000
trans-1,2-Dichloroethene	1000	U	1000	510	ug/L			11/19/25 16:00	1000
Trichloroethene	1000	U	1000	440	ug/L			11/19/25 16:00	1000
Vinyl chloride	7000		1000	450	ug/L			11/19/25 16:00	1000
<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)	120		62 - 137					11/19/25 16:00	1000
4-Bromofluorobenzene (Surr)	84		56 - 136					11/19/25 16:00	1000
Toluene-d8 (Surr)	98		78 - 122					11/19/25 16:00	1000
Dibromofluoromethane (Surr)	114		73 - 120					11/19/25 16:00	1000

# Surrogate Summary

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

Job ID: 240-237767-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	TOL	DBFM
		(62-137)	(56-136)	(78-122)	(73-120)
240-237298-C-1 MS	Matrix Spike	96	111	105	74
240-237298-C-1 MSD	Matrix Spike Duplicate	99	116	109	101
240-237767-1	TRIP BLANK_129	109	102	105	100
240-237767-2	MW-122_111225	110	102	105	91
240-237767-3	MW-55D_111225	129	95	102	112
240-237767-4	MW-55_111225	129	90	97	112
240-237767-5	MW-56_111225	127	93	98	115
240-237767-6	MW-49_111225	120	84	98	114
240-237814-B-2 MSD	Matrix Spike Duplicate	120	99	115	106
240-237814-C-2 MS	Matrix Spike	106	105	102	94
LCS 240-680950/5	Lab Control Sample	91	115	95	90
LCS 240-681179/5	Lab Control Sample	100	109	106	94
MB 240-680950/33	Method Blank	109	101	105	98
MB 240-681179/9	Method Blank	127	94	97	113

#### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
TOL = Toluene-d8 (Surr)  
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA
		(64-136)
240-237760-F-2 MS	Matrix Spike	109
240-237760-F-2 MSD	Matrix Spike Duplicate	112
240-237767-2	MW-122_111225	101
240-237767-3	MW-55D_111225	109
240-237767-4	MW-55_111225	102
240-237767-5	MW-56_111225	111
240-237767-6	MW-49_111225	84
LCS 240-681241/5	Lab Control Sample	92
MB 240-681241/7	Method Blank	93

#### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-237767-1

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

Lab Sample ID: MB 240-680950/33

Matrix: Water

Analysis Batch: 680950

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			11/18/25 12:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/25 12:23	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/25 12:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/25 12:23	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/18/25 12:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/18/25 12:23	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	109		62 - 137		11/18/25 12:23	1
4-Bromofluorobenzene (Surr)	101		56 - 136		11/18/25 12:23	1
Toluene-d8 (Surr)	105		78 - 122		11/18/25 12:23	1
Dibromofluoromethane (Surr)	98		73 - 120		11/18/25 12:23	1

Lab Sample ID: LCS 240-680950/5

Matrix: Water

Analysis Batch: 680950

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	22.2		ug/L		89	77 - 123
Tetrachloroethene	25.0	22.7		ug/L		91	76 - 123
trans-1,2-Dichloroethene	25.0	20.2		ug/L		81	75 - 124
Trichloroethene	25.0	20.5		ug/L		82	70 - 122
Vinyl chloride	25.0	26.7		ug/L		107	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
4-Bromofluorobenzene (Surr)	115		56 - 136
Toluene-d8 (Surr)	95		78 - 122
Dibromofluoromethane (Surr)	90		73 - 120

Lab Sample ID: 240-237298-C-1 MS

Matrix: Water

Analysis Batch: 680950

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	17.4		ug/L		70	56 - 135
cis-1,2-Dichloroethene	8.4	F1 F2	25.0	23.4	F1	ug/L		60	66 - 128
Tetrachloroethene	1.0	U	25.0	18.1		ug/L		72	62 - 131
trans-1,2-Dichloroethene	1.0	U F2	25.0	16.7		ug/L		67	56 - 136
Trichloroethene	0.76	J	25.0	18.1		ug/L		70	61 - 124
Vinyl chloride	1.0	U	25.0	20.6		ug/L		83	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	111		56 - 136
Toluene-d8 (Surr)	105		78 - 122

Eurofins Cleveland

# QC Sample Results

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

Job ID: 240-237767-1

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

Lab Sample ID: 240-237298-C-1 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 680950

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	74		73 - 120

Lab Sample ID: 240-237298-C-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 680950

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	21.6		ug/L		86	56 - 135	21	26
cis-1,2-Dichloroethene	8.4	F1 F2	25.0	31.8	F2	ug/L		93	66 - 128	30	14
Tetrachloroethene	1.0	U	25.0	17.9		ug/L		72	62 - 131	1	20
trans-1,2-Dichloroethene	1.0	U F2	25.0	21.9	F2	ug/L		88	56 - 136	27	15
Trichloroethene	0.76	J	25.0	18.9		ug/L		72	61 - 124	4	15
Vinyl chloride	1.0	U	25.0	22.3		ug/L		89	43 - 157	8	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	116		56 - 136
Toluene-d8 (Surr)	109		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

Lab Sample ID: MB 240-681179/9

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 681179

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/19/25 12:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/25 12:45	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 12:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/25 12:45	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 12:45	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/25 12:45	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	127		62 - 137		11/19/25 12:45	1
4-Bromofluorobenzene (Surr)	94		56 - 136		11/19/25 12:45	1
Toluene-d8 (Surr)	97		78 - 122		11/19/25 12:45	1
Dibromofluoromethane (Surr)	113		73 - 120		11/19/25 12:45	1

Lab Sample ID: LCS 240-681179/5

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 681179

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	25.0	19.7		ug/L		79	63 - 134
cis-1,2-Dichloroethene	25.0	22.7		ug/L		91	77 - 123
Tetrachloroethene	25.0	22.4		ug/L		90	76 - 123
trans-1,2-Dichloroethene	25.0	21.4		ug/L		86	75 - 124
Trichloroethene	25.0	20.7		ug/L		83	70 - 122

Eurofins Cleveland

# QC Sample Results

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

Job ID: 240-237767-1

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

Lab Sample ID: LCS 240-681179/5

Matrix: Water

Analysis Batch: 681179

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	25.0	21.3		ug/L		85	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	109		56 - 136
Toluene-d8 (Surr)	106		78 - 122
Dibromofluoromethane (Surr)	94		73 - 120

Lab Sample ID: 240-237814-B-2 MSD

Matrix: Water

Analysis Batch: 681179

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	19.9		ug/L		80	56 - 135	15	26
cis-1,2-Dichloroethene	220	E F2	25.0	262	E 4 F2	ug/L		183	66 - 128	15	14
Tetrachloroethene	1.0	U	25.0	21.0		ug/L		84	62 - 131	16	20
trans-1,2-Dichloroethene	5.0	F2	25.0	28.4	F2	ug/L		94	56 - 136	21	15
Trichloroethene	1.0	U	25.0	19.0		ug/L		76	61 - 124	6	15
Vinyl chloride	210	E	25.0	252	E 4	ug/L		169	43 - 157	14	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	120		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	115		78 - 122
Dibromofluoromethane (Surr)	106		73 - 120

Lab Sample ID: 240-237814-C-2 MS

Matrix: Water

Analysis Batch: 681179

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
1,1-Dichloroethene	1.0	U	25.0	17.1		ug/L		68	56 - 135
cis-1,2-Dichloroethene	220	E F2	25.0	225	E 4	ug/L		32	66 - 128
Tetrachloroethene	1.0	U	25.0	17.9		ug/L		71	62 - 131
trans-1,2-Dichloroethene	5.0	F2	25.0	23.1		ug/L		72	56 - 136
Trichloroethene	1.0	U	25.0	18.0		ug/L		72	61 - 124
Vinyl chloride	210	E	25.0	218	E 4	ug/L		33	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		62 - 137
4-Bromofluorobenzene (Surr)	105		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	94		73 - 120

# QC Sample Results

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

Job ID: 240-237767-1

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

**Lab Sample ID: MB 240-681241/7**  
**Matrix: Water**  
**Analysis Batch: 681241**

**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			11/19/25 13:38	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		64 - 136					11/19/25 13:38	1

**Lab Sample ID: LCS 240-681241/5**  
**Matrix: Water**  
**Analysis Batch: 681241**

**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	8.13		ug/L		81	68 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	92		64 - 136				

**Lab Sample ID: 240-237760-F-2 MS**  
**Matrix: Water**  
**Analysis Batch: 681241**

**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	2.0		10.0	9.29		ug/L		72	45 - 145
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	109		64 - 136						

**Lab Sample ID: 240-237760-F-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 681241**

**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
1,4-Dioxane	2.0		10.0	8.95		ug/L		69	45 - 145	4	19
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	112		64 - 136								

# QC Association Summary

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

Job ID: 240-237767-1

## GC/MS VOA

### Analysis Batch: 680950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237767-1	TRIP BLANK_129	Total/NA	Water	8260D	
240-237767-2	MW-122_111225	Total/NA	Water	8260D	
MB 240-680950/33	Method Blank	Total/NA	Water	8260D	
LCS 240-680950/5	Lab Control Sample	Total/NA	Water	8260D	
240-237298-C-1 MS	Matrix Spike	Total/NA	Water	8260D	
240-237298-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

### Analysis Batch: 681179

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237767-3	MW-55D_111225	Total/NA	Water	8260D	
240-237767-4	MW-55_111225	Total/NA	Water	8260D	
240-237767-5	MW-56_111225	Total/NA	Water	8260D	
240-237767-6	MW-49_111225	Total/NA	Water	8260D	
MB 240-681179/9	Method Blank	Total/NA	Water	8260D	
LCS 240-681179/5	Lab Control Sample	Total/NA	Water	8260D	
240-237814-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-237814-C-2 MS	Matrix Spike	Total/NA	Water	8260D	

### Analysis Batch: 681241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237767-2	MW-122_111225	Total/NA	Water	8260D SIM	
240-237767-3	MW-55D_111225	Total/NA	Water	8260D SIM	
240-237767-4	MW-55_111225	Total/NA	Water	8260D SIM	
240-237767-5	MW-56_111225	Total/NA	Water	8260D SIM	
240-237767-6	MW-49_111225	Total/NA	Water	8260D SIM	
MB 240-681241/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-681241/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-237760-F-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-237760-F-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

# Lab Chronicle

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

Job ID: 240-237767-1

## Client Sample ID: TRIP BLANK\_129

Lab Sample ID: 240-237767-1

Date Collected: 11/12/25 00:00

Matrix: Water

Date Received: 11/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	680950	MS	EET CLE	11/18/25 15:24

## Client Sample ID: MW-122\_111225

Lab Sample ID: 240-237767-2

Date Collected: 11/12/25 09:00

Matrix: Water

Date Received: 11/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	680950	MS	EET CLE	11/18/25 19:27
Total/NA	Analysis	8260D SIM		1	681241	R5XG	EET CLE	11/19/25 19:06

## Client Sample ID: MW-55D\_111225

Lab Sample ID: 240-237767-3

Date Collected: 11/12/25 09:55

Matrix: Water

Date Received: 11/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681179	R5XG	EET CLE	11/19/25 14:47
Total/NA	Analysis	8260D SIM		1	681241	R5XG	EET CLE	11/19/25 19:29

## Client Sample ID: MW-55\_111225

Lab Sample ID: 240-237767-4

Date Collected: 11/12/25 10:45

Matrix: Water

Date Received: 11/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681179	R5XG	EET CLE	11/19/25 15:11
Total/NA	Analysis	8260D SIM		1	681241	R5XG	EET CLE	11/19/25 19:53

## Client Sample ID: MW-56\_111225

Lab Sample ID: 240-237767-5

Date Collected: 11/12/25 11:45

Matrix: Water

Date Received: 11/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681179	R5XG	EET CLE	11/19/25 15:36
Total/NA	Analysis	8260D SIM		1	681241	R5XG	EET CLE	11/19/25 20:16

## Client Sample ID: MW-49\_111225

Lab Sample ID: 240-237767-6

Date Collected: 11/12/25 12:50

Matrix: Water

Date Received: 11/14/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1000	681179	R5XG	EET CLE	11/19/25 16:00
Total/NA	Analysis	8260D SIM		1	681241	R5XG	EET CLE	11/19/25 20:40

**Laboratory References:**

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

# Accreditation/Certification Summary

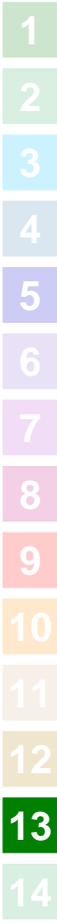
Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237767-1

## Laboratory: Eurofins Cleveland

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

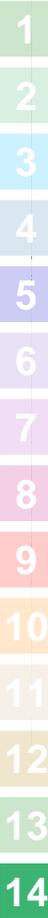
Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0806	09-30-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-26
Iowa	State	421	06-01-27
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-28-26
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	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	09-14-26
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-26



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

<b>Client Contact</b>		Regulatory program: <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 Szaichler				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: JOE FOJTIK				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:				<input type="checkbox"/> 3 weeks <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day								Lab sampling															
Project Number: 30251157.401.04		Shipping/Tracking No: (B) 346027714												Job/SDG No:															
PO # US3416652763														Sample Specific Notes / Special Instructions:															
Sample Identification		Sample Date	Sample Time	Matrix					Containers & Preservatives																				
				Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnO/NaOH	Unpres	Other:														
TRIP BLANK_129		---	---	1							1					NG	X	X	X	X	X	X						1 Trip Blank	
MW-122_111225		11-12-25	900	6							6					NG	X	X	X	X	X	X						3 VOAs for 8260D 3 VOAs for 8260D SIM	
MW-55d_111225		11-12-25	955	6							6					NG	X	X	X	X	X	X							
MW-55_111225		11-12-25	1045	6							6					NG	X	X	X	X	X	X							
MW-56_111225		11-12-25	1145	6							6					NG	X	X	X	X	X	X							
MW-49_111225		11-12-25	1250	6							6					NG	X	X	X	X	X	X							
Possible Hazard Identification		<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)										240-237767 COC							
Special Instructions/QC Requirements & Comments:		Onsite (G)																											
Submit all results through Cadena at jtomalla@cadenaco.com. Cadena #E203728																													
Level IV Reporting requested.																													
Relinquished by: JOE FOJTIK		Company: Arcadis		Date/Time: 11-12-25 / 1420		Received by: Novi Cold Storage		Company: Arcadis		Date/Time: 11-12-25 / 1420																			
Relinquished by: [Signature]		Company: ARCADIS		Date/Time: 11/13/25 1325		Received by: [Signature]		Company: EETA		Date/Time: 11/13/25 1326																			
Relinquished by: [Signature]		Company: EETA		Date/Time: 11/13/25 1327		Received in Laboratory by: JCM		Company: EC		Date/Time: 11/14/25 0800																			

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Eurofins - Cleveland Sample Receipt Form/Narrative Login # \_\_\_\_\_  
 Barberton Facility Cooler unpacked by: SLM

Client Alcald 5 Site Name \_\_\_\_\_

Cooler Received on 11/14/25 Opened on 11/14/25  
 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 # FC Foam Box Client Cooler Box Other \_\_\_\_\_  
 Packing material used: Bubble Wrap Foam Plastic Bag None Other \_\_\_\_\_  
 COOLANT Met Ice Blue Ice Dry Ice Water None \_\_\_\_\_  
 1 Cooler temperature upon receipt  See Multiple Cooler Form

IR GUN # 13 (CF + 0.6 °C) Observed Cooler Temp. 2.0 °C Corrected Cooler Temp. 2.6 °C

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/MetHg)?  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

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

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# HC567196  
 14 Were VOAs on the COC?  Yes  No  
 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 # 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 \_\_\_\_\_

Temperature readings

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservation Temp</u>	<u>Added</u>	<u>Preservation Lot Number</u>
TRIP BLANK_129	240-237767-A-1	Voa Vial 40ml - Hydrochloric Acid				
MW-122_111225	240-237767-A-2	Voa Vial 40ml - Hydrochloric Acid				
MW-122_111225	240-237767-B-2	Voa Vial 40ml - Hydrochloric Acid				
MW-122_111225	240-237767-C-2	Voa Vial 40ml - Hydrochloric Acid				
MW-122_111225	240-237767-D-2	Voa Vial 40ml - Hydrochloric Acid				
MW-122_111225	240-237767-E-2	Voa Vial 40ml - Hydrochloric Acid				
MW-122_111225	240-237767-F-2	Voa Vial 40ml - Hydrochloric Acid				
MW-55D_111225	240-237767-A-3	Voa Vial 40ml - Hydrochloric Acid				
MW-55D_111225	240-237767-B-3	Voa Vial 40ml - Hydrochloric Acid				
MW-55D_111225	240-237767-C-3	Voa Vial 40ml - Hydrochloric Acid				
MW-55D_111225	240-237767-D-3	Voa Vial 40ml - Hydrochloric Acid				
MW-55D_111225	240-237767-E-3	Voa Vial 40ml - Hydrochloric Acid				
MW-55D_111225	240-237767-F-3	Voa Vial 40ml - Hydrochloric Acid				
MW-55_111225	240-237767-A-4	Voa Vial 40ml - Hydrochloric Acid				
MW-55_111225	240-237767-B-4	Voa Vial 40ml - Hydrochloric Acid				
MW-55_111225	240-237767-C-4	Voa Vial 40ml - Hydrochloric Acid				
MW-55_111225	240-237767-D-4	Voa Vial 40ml - Hydrochloric Acid				
MW-55_111225	240-237767-E-4	Voa Vial 40ml - Hydrochloric Acid				
MW-55_111225	240-237767-F-4	Voa Vial 40ml - Hydrochloric Acid				
MW-56_111225	240-237767-A-5	Voa Vial 40ml - Hydrochloric Acid				
MW-56_111225	240-237767-B-5	Voa Vial 40ml - Hydrochloric Acid				
MW-56_111225	240-237767-C-5	Voa Vial 40ml - Hydrochloric Acid				
MW-56_111225	240-237767-D-5	Voa Vial 40ml - Hydrochloric Acid				
MW-56_111225	240-237767-E-5	Voa Vial 40ml - Hydrochloric Acid				
MW-56_111225	240-237767-F-5	Voa Vial 40ml - Hydrochloric Acid				
MW-49_111225	240-237767-A-6	Voa Vial 40ml - Hydrochloric Acid				
MW-49_111225	240-237767-B-6	Voa Vial 40ml - Hydrochloric Acid				
MW-49_111225	240-237767-C-6	Voa Vial 40ml - Hydrochloric Acid				
MW-49_111225	240-237767-D-6	Voa Vial 40ml - Hydrochloric Acid				
MW-49_111225	240-237767-E-6	Voa Vial 40ml - Hydrochloric Acid				
MW-49_111225	240-237767-F-6	Voa Vial 40ml - Hydrochloric Acid				

# DATA VERIFICATION REPORT



November 21, 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: 237767-1  
Sample date: 2025-11-12  
Report received by CADENA: 2025-11-21  
Initial Data Verification completed by CADENA: 2025-11-21  
Number of Samples:6  
Sample Matrices:Water  
Test Categories:GCMS VOC

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

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch MS/MSD recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

GCMS VOC QC batch CCV response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

## CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
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: 237767-1

Analyte	Cas No.	Sample Name: TRIP BLANK_129				MW-122_111225				MW-55D_111225				MW-55_111225				MW-56_111225				MW-49_111225			
		Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	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	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1000	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	---	1.1	1.0	ug/l	---	28000	1000	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	1000	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	1000	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	1000	ug/l	---
Vinyl chloride	75-01-4	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	---	7000	1000	ug/l	---
<u>OSW-8260DSIM</u>																									
1,4-Dioxane	123-91-1					1.0	2.0	ug/l	J	2.5	2.0	ug/l	---	1.6	2.0	ug/l	J	1.1	2.0	ug/l	J	14	2.0	ug/l	---