

# ANALYTICAL REPORT

## PREPARED FOR

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## JOB DESCRIPTION

Ford LTP

## JOB NUMBER

240-209082-1

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## Job Notes

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## Authorization



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# Definitions/Glossary

Client: Arcadis U.S., Inc.  
Project/Site: Ford LTP

Job ID: 240-209082-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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 U.S., Inc.  
Project: Ford LTP

Job ID: 240-209082-1

**Job ID: 240-209082-1**

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## Job Narrative 240-209082-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

### Receipt

The samples were received on 8/8/2024 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 1.1°C.

### GC/MS VOA

Method 8260D: Internal standard recovery for the following sample was outside of acceptance limits: TRIP BLANK\_24 (240-209082-1). There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

Method 8260D: The following sample(s) was unable to be prepared and/or analyzed due to instrument failure : MS/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 U.S., Inc.  
Project/Site: Ford LTP

Job ID: 240-209082-1

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 U.S., Inc.  
Project/Site: Ford LTP

Job ID: 240-209082-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-209082-1	TRIP BLANK_24	Water	08/06/24 00:00	08/08/24 08:00
240-209082-2	MW-201_080624	Water	08/06/24 09:20	08/08/24 08:00
240-209082-3	MW-201S_080624	Water	08/06/24 10:10	08/08/24 08:00
240-209082-4	MW-25_080624	Water	08/06/24 11:50	08/08/24 08:00

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

# Detection Summary

Client: Arcadis U.S., Inc.  
Project/Site: Ford LTP

Job ID: 240-209082-1

**Client Sample ID: TRIP BLANK\_24**

**Lab Sample ID: 240-209082-1**

No Detections.

**Client Sample ID: MW-201\_080624**

**Lab Sample ID: 240-209082-2**

No Detections.

**Client Sample ID: MW-201S\_080624**

**Lab Sample ID: 240-209082-3**

No Detections.

**Client Sample ID: MW-25\_080624**

**Lab Sample ID: 240-209082-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.3		2.0	0.86	ug/L	1		8260D SIM	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: Arcadis U.S., Inc.  
Project/Site: Ford LTP

Job ID: 240-209082-1

**Client Sample ID: TRIP BLANK\_24**

**Lab Sample ID: 240-209082-1**

Date Collected: 08/06/24 00:00

Matrix: Water

Date Received: 08/08/24 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			08/14/24 15:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/14/24 15:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/14/24 15:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/14/24 15:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/14/24 15:55	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/14/24 15:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	132		62 - 137		08/14/24 15:55	1
4-Bromofluorobenzene (Surr)	94		56 - 136		08/14/24 15:55	1
Toluene-d8 (Surr)	106		78 - 122		08/14/24 15:55	1
Dibromofluoromethane (Surr)	110		73 - 120		08/14/24 15:55	1

# Client Sample Results

Client: Arcadis U.S., Inc.  
Project/Site: Ford LTP

Job ID: 240-209082-1

**Client Sample ID: MW-201\_080624**

**Lab Sample ID: 240-209082-2**

Date Collected: 08/06/24 09:20

Matrix: Water

Date Received: 08/08/24 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			08/13/24 17:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		68 - 127					08/13/24 17:39	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			08/15/24 17:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/15/24 17:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/15/24 17:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/15/24 17:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/15/24 17:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/15/24 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137					08/15/24 17:32	1
4-Bromofluorobenzene (Surr)	93		56 - 136					08/15/24 17:32	1
Toluene-d8 (Surr)	97		78 - 122					08/15/24 17:32	1
Dibromofluoromethane (Surr)	93		73 - 120					08/15/24 17:32	1

# Client Sample Results

Client: Arcadis U.S., Inc.  
Project/Site: Ford LTP

Job ID: 240-209082-1

**Client Sample ID: MW-201S\_080624**

**Lab Sample ID: 240-209082-3**

Date Collected: 08/06/24 10:10

Matrix: Water

Date Received: 08/08/24 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			08/14/24 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		68 - 127					08/14/24 13:44	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			08/15/24 19:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/15/24 19:45	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/15/24 19:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/15/24 19:45	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/15/24 19:45	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/15/24 19:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137					08/15/24 19:45	1
4-Bromofluorobenzene (Surr)	97		56 - 136					08/15/24 19:45	1
Toluene-d8 (Surr)	100		78 - 122					08/15/24 19:45	1
Dibromofluoromethane (Surr)	96		73 - 120					08/15/24 19:45	1

# Client Sample Results

Client: Arcadis U.S., Inc.  
Project/Site: Ford LTP

Job ID: 240-209082-1

**Client Sample ID: MW-25\_080624**

**Lab Sample ID: 240-209082-4**

Date Collected: 08/06/24 11:50

Matrix: Water

Date Received: 08/08/24 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	2.3		2.0	0.86	ug/L			08/14/24 14:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127					08/14/24 14:08	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			08/15/24 20:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/15/24 20:07	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/15/24 20:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/15/24 20:07	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/15/24 20:07	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/15/24 20:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137					08/15/24 20:07	1
4-Bromofluorobenzene (Surr)	93		56 - 136					08/15/24 20:07	1
Toluene-d8 (Surr)	96		78 - 122					08/15/24 20:07	1
Dibromofluoromethane (Surr)	93		73 - 120					08/15/24 20:07	1

# Surrogate Summary

Client: Arcadis U.S., Inc.  
Project/Site: Ford LTP

Job ID: 240-209082-1

## 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)
240-209082-1	TRIP BLANK_24	132	94	106	110
240-209082-2	MW-201_080624	102	93	97	93
240-209082-2 MS	MW-201-MS_080624	92	99	92	96
240-209082-2 MSD	MW-201-MSD_080624	91	95	90	95
240-209082-3	MW-201S_080624	100	97	100	96
240-209082-4	MW-25_080624	100	93	96	93
LCS 240-623297/6	Lab Control Sample	105	109	105	95
LCS 240-623534/5	Lab Control Sample	96	100	97	100
MB 240-623297/10	Method Blank	126	91	103	107
MB 240-623534/9	Method Blank	101	91	96	94

**Surrogate Legend**

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (68-127)
240-209079-D-2 MS	Matrix Spike	103
240-209079-D-2 MSD	Matrix Spike Duplicate	98
240-209082-2	MW-201_080624	110
240-209082-2 MS	MW-201-MS_080624	109
240-209082-2 MSD	MW-201-MSD_080624	99
240-209082-3	MW-201S_080624	105
240-209082-4	MW-25_080624	106
LCS 240-623167/4	Lab Control Sample	97
LCS 240-623291/4	Lab Control Sample	103
MB 240-623167/6	Method Blank	105
MB 240-623291/6	Method Blank	104

**Surrogate Legend**

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

# QC Sample Results

Client: Arcadis U.S., Inc.  
Project/Site: Ford LTP

Job ID: 240-209082-1

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

Lab Sample ID: MB 240-623297/10

Matrix: Water

Analysis Batch: 623297

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			08/14/24 13:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/14/24 13:23	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/14/24 13:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/14/24 13:23	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/14/24 13:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/14/24 13:23	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	126		62 - 137		08/14/24 13:23	1
4-Bromofluorobenzene (Surr)	91		56 - 136		08/14/24 13:23	1
Toluene-d8 (Surr)	103		78 - 122		08/14/24 13:23	1
Dibromofluoromethane (Surr)	107		73 - 120		08/14/24 13:23	1

Lab Sample ID: LCS 240-623297/6

Matrix: Water

Analysis Batch: 623297

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1-Dichloroethene	20.0	18.7		ug/L		93	63 - 134
cis-1,2-Dichloroethene	20.0	17.6		ug/L		88	77 - 123
Tetrachloroethene	20.0	18.5		ug/L		92	76 - 123
trans-1,2-Dichloroethene	20.0	17.9		ug/L		89	75 - 124
Trichloroethene	20.0	17.2		ug/L		86	70 - 122
Vinyl chloride	20.0	18.2		ug/L		91	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	105		62 - 137
4-Bromofluorobenzene (Surr)	109		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

Lab Sample ID: MB 240-623534/9

Matrix: Water

Analysis Batch: 623534

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			08/15/24 17:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/15/24 17:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/15/24 17:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/15/24 17:10	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/15/24 17:10	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/15/24 17:10	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		08/15/24 17:10	1
4-Bromofluorobenzene (Surr)	91		56 - 136		08/15/24 17:10	1
Toluene-d8 (Surr)	96		78 - 122		08/15/24 17:10	1

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# QC Sample Results

Client: Arcadis U.S., Inc.  
Project/Site: Ford LTP

Job ID: 240-209082-1

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

Lab Sample ID: MB 240-623534/9

Matrix: Water

Analysis Batch: 623534

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	94		73 - 120		08/15/24 17:10	1

Lab Sample ID: LCS 240-623534/5

Matrix: Water

Analysis Batch: 623534

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
1,1-Dichloroethene	25.0	20.7		ug/L		83	63 - 134	
cis-1,2-Dichloroethene	25.0	22.0		ug/L		88	77 - 123	
Tetrachloroethene	25.0	23.6		ug/L		95	76 - 123	
trans-1,2-Dichloroethene	25.0	21.4		ug/L		86	75 - 124	
Trichloroethene	25.0	23.7		ug/L		95	70 - 122	
Vinyl chloride	12.5	12.3		ug/L		98	60 - 144	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

Lab Sample ID: 240-209082-2 MS

Matrix: Water

Analysis Batch: 623534

Client Sample ID: MW-201-MS\_080624

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	20.3		ug/L		81	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	22.0		ug/L		88	66 - 128	
Tetrachloroethene	1.0	U	25.0	23.5		ug/L		94	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	21.3		ug/L		85	56 - 136	
Trichloroethene	1.0	U	25.0	22.7		ug/L		91	61 - 124	
Vinyl chloride	1.0	U	12.5	12.3		ug/L		98	43 - 157	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	92		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-209082-2 MSD

Matrix: Water

Analysis Batch: 623534

Client Sample ID: MW-201-MSD\_080624

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	20.8		ug/L		83	56 - 135	3	26	
cis-1,2-Dichloroethene	1.0	U	25.0	22.5		ug/L		90	66 - 128	2	14	
Tetrachloroethene	1.0	U	25.0	23.7		ug/L		95	62 - 131	1	20	
trans-1,2-Dichloroethene	1.0	U	25.0	22.0		ug/L		88	56 - 136	3	15	
Trichloroethene	1.0	U	25.0	23.1		ug/L		92	61 - 124	2	15	

Eurofins Cleveland

# QC Sample Results

Client: Arcadis U.S., Inc.  
Project/Site: Ford LTP

Job ID: 240-209082-1

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

Lab Sample ID: 240-209082-2 MSD

Client Sample ID: MW-201-MSD\_080624

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 623534

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl chloride	1.0	U	12.5	12.5		ug/L		100	43 - 157	1	24
<b>MSD MSD</b>											
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>								
1,2-Dichloroethane-d4 (Surr)	91		62 - 137								
4-Bromofluorobenzene (Surr)	95		56 - 136								
Toluene-d8 (Surr)	90		78 - 122								
Dibromofluoromethane (Surr)	95		73 - 120								

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

Lab Sample ID: MB 240-623167/6

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 623167

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			08/13/24 11:00	1
<b>MB MB</b>									
<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)	105		68 - 127					08/13/24 11:00	1

Lab Sample ID: LCS 240-623167/4

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 623167

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	10.0	9.32		ug/L		93	75 - 121
<b>LCS LCS</b>							
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				
1,2-Dichloroethane-d4 (Surr)	97		68 - 127				

Lab Sample ID: 240-209082-2 MS

Client Sample ID: MW-201-MS\_080624

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 623167

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.0	U	10.0	11.5		ug/L		115	20 - 180
<b>MS MS</b>									
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
1,2-Dichloroethane-d4 (Surr)	109		68 - 127						

Lab Sample ID: 240-209082-2 MSD

Client Sample ID: MW-201-MSD\_080624

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 623167

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	11.0		ug/L		110	20 - 180	5	20

Eurofins Cleveland



# QC Sample Results

Client: Arcadis U.S., Inc.  
Project/Site: Ford LTP

Job ID: 240-209082-1

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

**Lab Sample ID: 240-209082-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 623167**

**Client Sample ID: MW-201-MSD\_080624**  
**Prep Type: Total/NA**

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		68 - 127

**Lab Sample ID: MB 240-623291/6**  
**Matrix: Water**  
**Analysis Batch: 623291**

**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			08/14/24 11:00	1

  

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127		08/14/24 11:00	1

**Lab Sample ID: LCS 240-623291/4**  
**Matrix: Water**  
**Analysis Batch: 623291**

**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	9.82		ug/L		98	75 - 121

  

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		68 - 127

**Lab Sample ID: 240-209079-D-2 MS**  
**Matrix: Water**  
**Analysis Batch: 623291**

**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	U	10.0	8.41		ug/L		84	20 - 180

  

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		68 - 127

**Lab Sample ID: 240-209079-D-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 623291**

**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	U	10.0	9.53		ug/L		95	20 - 180	12	20

  

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		68 - 127

# QC Association Summary

Client: Arcadis U.S., Inc.  
Project/Site: Ford LTP

Job ID: 240-209082-1

## GC/MS VOA

### Analysis Batch: 623167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-209082-2	MW-201_080624	Total/NA	Water	8260D SIM	
MB 240-623167/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-623167/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-209082-2 MS	MW-201-MS_080624	Total/NA	Water	8260D SIM	
240-209082-2 MSD	MW-201-MSD_080624	Total/NA	Water	8260D SIM	

### Analysis Batch: 623291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-209082-3	MW-201S_080624	Total/NA	Water	8260D SIM	
240-209082-4	MW-25_080624	Total/NA	Water	8260D SIM	
MB 240-623291/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-623291/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-209079-D-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-209079-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

### Analysis Batch: 623297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-209082-1	TRIP BLANK_24	Total/NA	Water	8260D	
MB 240-623297/10	Method Blank	Total/NA	Water	8260D	
LCS 240-623297/6	Lab Control Sample	Total/NA	Water	8260D	

### Analysis Batch: 623534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-209082-2	MW-201_080624	Total/NA	Water	8260D	
240-209082-3	MW-201S_080624	Total/NA	Water	8260D	
240-209082-4	MW-25_080624	Total/NA	Water	8260D	
MB 240-623534/9	Method Blank	Total/NA	Water	8260D	
LCS 240-623534/5	Lab Control Sample	Total/NA	Water	8260D	
240-209082-2 MS	MW-201-MS_080624	Total/NA	Water	8260D	
240-209082-2 MSD	MW-201-MSD_080624	Total/NA	Water	8260D	

# Lab Chronicle

Client: Arcadis U.S., Inc.  
Project/Site: Ford LTP

Job ID: 240-209082-1

**Client Sample ID: TRIP BLANK\_24**

**Lab Sample ID: 240-209082-1**

Date Collected: 08/06/24 00:00

Matrix: Water

Date Received: 08/08/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	623297	MDH	EET CLE	08/14/24 15:55

**Client Sample ID: MW-201\_080624**

**Lab Sample ID: 240-209082-2**

Date Collected: 08/06/24 09:20

Matrix: Water

Date Received: 08/08/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	623534	MDH	EET CLE	08/15/24 17:32
Total/NA	Analysis	8260D SIM		1	623167	MS	EET CLE	08/13/24 17:39

**Client Sample ID: MW-201S\_080624**

**Lab Sample ID: 240-209082-3**

Date Collected: 08/06/24 10:10

Matrix: Water

Date Received: 08/08/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	623534	MDH	EET CLE	08/15/24 19:45
Total/NA	Analysis	8260D SIM		1	623291	MS	EET CLE	08/14/24 13:44

**Client Sample ID: MW-25\_080624**

**Lab Sample ID: 240-209082-4**

Date Collected: 08/06/24 11:50

Matrix: Water

Date Received: 08/08/24 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	623534	MDH	EET CLE	08/15/24 20:07
Total/NA	Analysis	8260D SIM		1	623291	MS	EET CLE	08/14/24 14:08

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: Arcadis U.S., Inc.  
Project/Site: Ford LTP

Job ID: 240-209082-1

## 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
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

**Chain of Custody Record**

TestAmerica Laboratory location: Brighton --- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

Regulatory program:  DW  NPDES  RCRA  Other

Client Contact  
Company Name: Arcadis  
Address: 28550 Cabot Drive, Suite 500  
City/State/Zip: Novi, MI, 48377  
Phone: 248-994-2240  
Project Name: Ford LTP  
Project Number: 30206169.0401.03  
PO # US3410018772

Client Project Manager: Kris Hinskey  
Site Contact: Christina Weaver  
Telephone: 248-994-2240  
Email: kristoffer.hinskey@arcadis.com

Lab Contact: Mike DelMonico  
Telephone: 330-497-9396

Sampler Name: Gary Link  
Method of Shipment/Carrier:  
Shipping/Tracking No:

Analysis Turnaround Time  
TAT, if different from below  
10 day  
 3 weeks  
 2 weeks  
 1 week  
 2 days  
 1 day

Containers & Preservatives  
H2SO4  
HNO3  
HCl  
NaOH  
ZnOH  
Other:

Matrix  
Aqueous  
Sediment  
Solid  
Other:

Filtered Sample (Y/N)  
Composite=C / Grab=G

Sample Identification	Sample Date	Sample Time	Air	H2SO4	HNO3	HCl	NaOH	ZnOH	Other:	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	Analyses
TRIP BLANK_24			1			1				N	G	X	X	X	X	X	X		1 Trip Blank
MW-201-080624	8/6/24	920	6			6				N	G	X	X	X	X	X	X		3 VOAs for 8260D 3 VOAs for 8260D SIM
MW-201-MS-080624	8/6/24	920	6			6				N	G	X	X	X	X	X	X		DePuron MS/ MSD
MW-201-MSD-080624	8/6/24	920	6			6				N	G	X	X	X	X	X	X		
MW-201-080624	8/6/24	1010	6			6				N	G	X	X	X	X	X	X		
MW-25-080624	8/6/24	1150	6			6				N	G	X	X	X	X	X	X		



Possible Hazard Identification  
 Non-Hazard  Flammable  Irritant  Poison B  Unknown

Special Instructions/QC Requirements & Comments:  
Sample Disposal (A fee may be assessed if samples a.)  
 Return to Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728  
Level IV Reporting requested.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
<u>Gary Link</u>	Arcadis	8/6/24 1420	<u>Novi Cold Storage</u>	ARCADIS	8/6/24 1420
<u>Gary Link</u>	Arcadis	8/7/24 1515	<u>KATHARINE MARTIN</u>	ARCADIS	8/7/24 1500

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Client Arcaadis Site Name \_\_\_\_\_ Cooler unpacked by: KM  
 Cooler Received on 8/8/24 Opened on 8/8/24  
 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 # 6C 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 # 22 (CF -0.1 °C) Observed Cooler Temp. 1.2 °C Corrected Cooler Temp. 1.1 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1
  - 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), # of containers  (N), and sample type of grab/comp  (N)?
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
13. Were all preserved sample(s) at the correct pH upon receipt?  Yes  No  NA pH Strip Lot# HC442471
14. Were VOAs on the COC?  Yes  No
15. Were air bubbles >6 mm in any VOA vials?  Yes  No  NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # N/A  Yes  No
17. Was a LL Hg or Me Hg trip blank present?  Yes  No

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

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

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES  additional next page Samples processed by: \_\_\_\_\_

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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: \_\_\_\_\_

# DATA VERIFICATION REPORT



August 22, 2024

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

CADENA project ID: E203728  
Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil  
Project number: 30206169.0401.04\_WA-02  
Event Specific Scope of Work References: Sample COC  
Laboratory: Eurofins Environment Testing LLC - Cleveland  
Laboratory submittal: 209082-1  
Sample date: 2024-08-06  
Report received by CADENA: 2024-08-22  
Initial Data Verification completed by CADENA: 2024-08-22  
Number of Samples:4  
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:

GCS VOC QC batch INTERNAL STANDARD response outliers and MS/MSD issues 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, MS/MSD Recovery, MS/MSD RPD, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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



## CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
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: 209082-1

<b>Sample Name:</b> TRIP BLANK_24	MW-201_080624	MW-201S_080624	MW-25_080624
<b>Lab Sample ID:</b> 2402090821	2402090822	2402090823	2402090824
<b>Sample Date:</b> 8/6/2024	8/6/2024	8/6/2024	8/6/2024

Analyte	Cas No.	TRIP BLANK_24				MW-201_080624				MW-201S_080624				MW-25_080624			
		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	---
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	---
Tetrachloroethene	127-18-4	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	---
Trichloroethene	79-01-6	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	---	ND	1.0	ug/l	---

#### OSW-8260DSIM

1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	ND	2.0	ug/l	---	2.3	2.0	ug/l	---
-------------	----------	--	--	--	--	----	-----	------	-----	----	-----	------	-----	-----	-----	------	-----