

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-237234-1

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: 240-237234-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery 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: 240-237234-1

Job ID: 240-237234-1

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Job Narrative 240-237234-1

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 11/8/2025 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 3 coolers at receipt time were 0.9°C, 1.3°C and 3.8°C.

GC/MS VOA

Method 8260D: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-21_110625 (240-237234-3) and DUP-01 (240-237234-4). Elevated reporting limits (RLs) are provided.

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-680407 was outside the method criteria for the following analyte(s): Trichloroethene. 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.

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: 240-237234-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

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- 13
- 14

Sample Summary

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

Job ID: 240-237234-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-237234-1	TRIP BLANK_45	Water	11/06/25 00:00	11/08/25 08:00	Michigan
240-237234-2	MW-18_110625	Water	11/06/25 10:30	11/08/25 08:00	Michigan
240-237234-3	MW-21_110625	Water	11/06/25 11:40	11/08/25 08:00	Michigan
240-237234-4	DUP-01	Water	11/06/25 00:00	11/08/25 08:00	Michigan
240-237234-5	MW-20_110625	Water	11/06/25 12:55	11/08/25 08:00	Michigan
240-237234-6	MW-220S_110625	Water	11/06/25 13:55	11/08/25 08:00	Michigan

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- 12
- 13
- 14

Detection Summary

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

Job ID: 240-237234-1

Client Sample ID: TRIP BLANK_45

Lab Sample ID: 240-237234-1

No Detections.

Client Sample ID: MW-18_110625

Lab Sample ID: 240-237234-2

No Detections.

Client Sample ID: MW-21_110625

Lab Sample ID: 240-237234-3

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

Client Sample ID: DUP-01

Lab Sample ID: 240-237234-4

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

Client Sample ID: MW-20_110625

Lab Sample ID: 240-237234-5

No Detections.

Client Sample ID: MW-220S_110625

Lab Sample ID: 240-237234-6

No Detections.

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: 240-237234-1

Client Sample ID: TRIP BLANK_45

Lab Sample ID: 240-237234-1

Date Collected: 11/06/25 00:00

Matrix: Water

Date Received: 11/08/25 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			11/12/25 15:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/12/25 15:16	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/12/25 15:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/12/25 15:16	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/12/25 15:16	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/12/25 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137		11/12/25 15:16	1
4-Bromofluorobenzene (Surr)	95		56 - 136		11/12/25 15:16	1
Toluene-d8 (Surr)	93		78 - 122		11/12/25 15:16	1
Dibromofluoromethane (Surr)	105		73 - 120		11/12/25 15:16	1

Client Sample Results

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

Job ID: 240-237234-1

Client Sample ID: MW-18_110625

Lab Sample ID: 240-237234-2

Date Collected: 11/06/25 10:30

Matrix: Water

Date Received: 11/08/25 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			11/12/25 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		64 - 136					11/12/25 17:58	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			11/12/25 15:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/12/25 15:35	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/12/25 15:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/12/25 15:35	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/12/25 15:35	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/12/25 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137					11/12/25 15:35	1
4-Bromofluorobenzene (Surr)	91		56 - 136					11/12/25 15:35	1
Toluene-d8 (Surr)	89		78 - 122					11/12/25 15:35	1
Dibromofluoromethane (Surr)	103		73 - 120					11/12/25 15:35	1

Client Sample Results

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

Job ID: 240-237234-1

Client Sample ID: MW-21_110625

Lab Sample ID: 240-237234-3

Date Collected: 11/06/25 11:40

Matrix: Water

Date Received: 11/08/25 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	1.7	J	2.0	0.86	ug/L			11/12/25 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 136					11/12/25 18:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	5.0	U	5.0	2.5	ug/L			11/13/25 11:12	5
cis-1,2-Dichloroethene	5.0	U	5.0	2.3	ug/L			11/13/25 11:12	5
Tetrachloroethene	5.0	U	5.0	2.2	ug/L			11/13/25 11:12	5
trans-1,2-Dichloroethene	5.0	U	5.0	2.6	ug/L			11/13/25 11:12	5
Trichloroethene	5.0	U	5.0	2.2	ug/L			11/13/25 11:12	5
Vinyl chloride	5.0	U	5.0	2.3	ug/L			11/13/25 11:12	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137					11/13/25 11:12	5
4-Bromofluorobenzene (Surr)	93		56 - 136					11/13/25 11:12	5
Toluene-d8 (Surr)	89		78 - 122					11/13/25 11:12	5
Dibromofluoromethane (Surr)	105		73 - 120					11/13/25 11:12	5

Client Sample Results

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

Job ID: 240-237234-1

Client Sample ID: DUP-01

Lab Sample ID: 240-237234-4

Date Collected: 11/06/25 00:00

Matrix: Water

Date Received: 11/08/25 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	1.7	J	2.0	0.86	ug/L			11/12/25 18:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		64 - 136					11/12/25 18:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	5.0	U	5.0	2.5	ug/L			11/13/25 11:31	5
cis-1,2-Dichloroethene	5.0	U	5.0	2.3	ug/L			11/13/25 11:31	5
Tetrachloroethene	5.0	U	5.0	2.2	ug/L			11/13/25 11:31	5
trans-1,2-Dichloroethene	5.0	U	5.0	2.6	ug/L			11/13/25 11:31	5
Trichloroethene	5.0	U	5.0	2.2	ug/L			11/13/25 11:31	5
Vinyl chloride	5.0	U	5.0	2.3	ug/L			11/13/25 11:31	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137					11/13/25 11:31	5
4-Bromofluorobenzene (Surr)	98		56 - 136					11/13/25 11:31	5
Toluene-d8 (Surr)	90		78 - 122					11/13/25 11:31	5
Dibromofluoromethane (Surr)	108		73 - 120					11/13/25 11:31	5

Client Sample Results

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

Job ID: 240-237234-1

Client Sample ID: MW-20_110625

Lab Sample ID: 240-237234-5

Date Collected: 11/06/25 12:55

Matrix: Water

Date Received: 11/08/25 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			11/12/25 19:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 136					11/12/25 19:08	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			11/12/25 16:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/12/25 16:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/12/25 16:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/12/25 16:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/12/25 16:31	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/12/25 16:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137					11/12/25 16:31	1
4-Bromofluorobenzene (Surr)	94		56 - 136					11/12/25 16:31	1
Toluene-d8 (Surr)	91		78 - 122					11/12/25 16:31	1
Dibromofluoromethane (Surr)	102		73 - 120					11/12/25 16:31	1

Client Sample Results

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

Job ID: 240-237234-1

Client Sample ID: MW-220S_110625

Lab Sample ID: 240-237234-6

Date Collected: 11/06/25 13:55

Matrix: Water

Date Received: 11/08/25 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			11/12/25 19:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 136					11/12/25 19:32	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			11/12/25 16:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/12/25 16:50	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/12/25 16:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/12/25 16:50	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/12/25 16:50	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/12/25 16:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137					11/12/25 16:50	1
4-Bromofluorobenzene (Surr)	93		56 - 136					11/12/25 16:50	1
Toluene-d8 (Surr)	90		78 - 122					11/12/25 16:50	1
Dibromofluoromethane (Surr)	104		73 - 120					11/12/25 16:50	1

Surrogate Summary

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

Job ID: 240-237234-1

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)
240-237234-1	TRIP BLANK_45	96	95	93	105
240-237234-2	MW-18_110625	94	91	89	103
240-237234-2 MS	MW-18-MS_110625	93	99	89	106
240-237234-2 MSD	MW-18-MSD_110625	93	97	89	105
240-237234-3	MW-21_110625	97	93	89	105
240-237234-4	DUP-01	98	98	90	108
240-237234-5	MW-20_110625	95	94	91	102
240-237234-6	MW-220S_110625	96	93	90	104
240-237246-E-2 MS	Matrix Spike	98	100	88	111
240-237246-E-2 MSD	Matrix Spike Duplicate	97	101	87	110
LCS 240-680231/4	Lab Control Sample	93	99	95	106
LCS 240-680407/4	Lab Control Sample	94	102	93	108
MB 240-680231/9	Method Blank	93	92	92	102
MB 240-680407/9	Method Blank	96	97	91	106

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)
240-237234-2	MW-18_110625	101
240-237234-2 MS	MW-18-MS_110625	110
240-237234-2 MSD	MW-18-MSD_110625	104
240-237234-3	MW-21_110625	102
240-237234-4	DUP-01	99
240-237234-5	MW-20_110625	107
240-237234-6	MW-220S_110625	102
LCS 240-680267/5	Lab Control Sample	102
MB 240-680267/7	Method Blank	102

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-237234-1

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

Lab Sample ID: MB 240-680231/9

Matrix: Water

Analysis Batch: 680231

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			11/12/25 10:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/12/25 10:51	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/12/25 10:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/12/25 10:51	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/12/25 10:51	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/12/25 10:51	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	93		62 - 137		11/12/25 10:51	1
4-Bromofluorobenzene (Surr)	92		56 - 136		11/12/25 10:51	1
Toluene-d8 (Surr)	92		78 - 122		11/12/25 10:51	1
Dibromofluoromethane (Surr)	102		73 - 120		11/12/25 10:51	1

Lab Sample ID: LCS 240-680231/4

Matrix: Water

Analysis Batch: 680231

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	23.9		ug/L		96	77 - 123
Tetrachloroethene	25.0	21.8		ug/L		87	76 - 123
trans-1,2-Dichloroethene	25.0	23.3		ug/L		93	75 - 124
Trichloroethene	25.0	27.2		ug/L		109	70 - 122
Vinyl chloride	12.5	10.4		ug/L		83	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	95		78 - 122
Dibromofluoromethane (Surr)	106		73 - 120

Lab Sample ID: 240-237234-2 MS

Matrix: Water

Analysis Batch: 680231

Client Sample ID: MW-18-MS_110625

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	23.1		ug/L		92	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	25.1		ug/L		100	66 - 128
Tetrachloroethene	1.0	U	25.0	20.2		ug/L		81	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	24.4		ug/L		97	56 - 136
Trichloroethene	1.0	U	25.0	27.8		ug/L		111	61 - 124
Vinyl chloride	1.0	U	12.5	11.7		ug/L		94	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	89		78 - 122

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-237234-1

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

Lab Sample ID: 240-237234-2 MS

Matrix: Water

Analysis Batch: 680231

Client Sample ID: MW-18-MS_110625

Prep Type: Total/NA

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	106		73 - 120

Lab Sample ID: 240-237234-2 MSD

Matrix: Water

Analysis Batch: 680231

Client Sample ID: MW-18-MSD_110625

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec	Limits	RPD	RPD	Limit
	Result	Qualifier		Result	Qualifier								
1,1-Dichloroethene	1.0	U	25.0	24.8		ug/L		99	56 - 135	7	26		
cis-1,2-Dichloroethene	1.0	U	25.0	24.8		ug/L		99	66 - 128	1	14		
Tetrachloroethene	1.0	U	25.0	21.1		ug/L		84	62 - 131	5	20		
trans-1,2-Dichloroethene	1.0	U	25.0	24.1		ug/L		97	56 - 136	1	15		
Trichloroethene	1.0	U	25.0	28.3		ug/L		113	61 - 124	2	15		
Vinyl chloride	1.0	U	12.5	13.0		ug/L		104	43 - 157	10	24		

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	89		78 - 122
Dibromofluoromethane (Surr)	105		73 - 120

Lab Sample ID: MB 240-680407/9

Matrix: Water

Analysis Batch: 680407

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			11/13/25 10:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/13/25 10:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/13/25 10:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/13/25 10:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/13/25 10:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/13/25 10:53	1

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	96		62 - 137		11/13/25 10:53	1
4-Bromofluorobenzene (Surr)	97		56 - 136		11/13/25 10:53	1
Toluene-d8 (Surr)	91		78 - 122		11/13/25 10:53	1
Dibromofluoromethane (Surr)	106		73 - 120		11/13/25 10:53	1

Lab Sample ID: LCS 240-680407/4

Matrix: Water

Analysis Batch: 680407

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS		Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
1,1-Dichloroethene	25.0	24.9		ug/L		100	63 - 134	
cis-1,2-Dichloroethene	25.0	26.1		ug/L		104	77 - 123	
Tetrachloroethene	25.0	22.3		ug/L		89	76 - 123	
trans-1,2-Dichloroethene	25.0	26.0		ug/L		104	75 - 124	
Trichloroethene	25.0	29.1		ug/L		117	70 - 122	

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-237234-1

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

Lab Sample ID: LCS 240-680407/4

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 680407

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	12.5	12.5		ug/L		100	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	93		78 - 122
Dibromofluoromethane (Surr)	108		73 - 120

Lab Sample ID: 240-237246-E-2 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 680407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	1.0	U	25.0	24.5		ug/L		98	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	26.8		ug/L		107	66 - 128
Tetrachloroethene	1.0	U	25.0	19.8		ug/L		79	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	26.2		ug/L		105	56 - 136
Trichloroethene	1.0	U F1	25.0	30.4		ug/L		122	61 - 124
Vinyl chloride	1.0	U	12.5	12.3		ug/L		99	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	88		78 - 122
Dibromofluoromethane (Surr)	111		73 - 120

Lab Sample ID: 240-237246-E-2 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 680407

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	27.2		ug/L		109	56 - 135	10	26
cis-1,2-Dichloroethene	1.0	U	25.0	28.4		ug/L		114	66 - 128	6	14
Tetrachloroethene	1.0	U	25.0	22.6		ug/L		91	62 - 131	13	20
trans-1,2-Dichloroethene	1.0	U	25.0	27.4		ug/L		109	56 - 136	4	15
Trichloroethene	1.0	U F1	25.0	32.4	F1	ug/L		130	61 - 124	6	15
Vinyl chloride	1.0	U	12.5	13.6		ug/L		109	43 - 157	10	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	87		78 - 122
Dibromofluoromethane (Surr)	110		73 - 120

QC Sample Results

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

Job ID: 240-237234-1

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

Lab Sample ID: MB 240-680267/7

Matrix: Water

Analysis Batch: 680267

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			11/12/25 12:30	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 136					11/12/25 12:30	1

Lab Sample ID: LCS 240-680267/5

Matrix: Water

Analysis Batch: 680267

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	9.53		ug/L		95	68 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	102		64 - 136				

Lab Sample ID: 240-237234-2 MS

Matrix: Water

Analysis Batch: 680267

Client Sample ID: MW-18-MS_110625

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	9.66		ug/L		97	45 - 145
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	110		64 - 136						

Lab Sample ID: 240-237234-2 MSD

Matrix: Water

Analysis Batch: 680267

Client Sample ID: MW-18-MSD_110625

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	8.95		ug/L		90	45 - 145	8	19
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	104		64 - 136								

QC Association Summary

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

Job ID: 240-237234-1

GC/MS VOA

Analysis Batch: 680231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237234-1	TRIP BLANK_45	Total/NA	Water	8260D	
240-237234-2	MW-18_110625	Total/NA	Water	8260D	
240-237234-5	MW-20_110625	Total/NA	Water	8260D	
240-237234-6	MW-220S_110625	Total/NA	Water	8260D	
MB 240-680231/9	Method Blank	Total/NA	Water	8260D	
LCS 240-680231/4	Lab Control Sample	Total/NA	Water	8260D	
240-237234-2 MS	MW-18-MS_110625	Total/NA	Water	8260D	
240-237234-2 MSD	MW-18-MSD_110625	Total/NA	Water	8260D	

Analysis Batch: 680267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237234-2	MW-18_110625	Total/NA	Water	8260D SIM	
240-237234-3	MW-21_110625	Total/NA	Water	8260D SIM	
240-237234-4	DUP-01	Total/NA	Water	8260D SIM	
240-237234-5	MW-20_110625	Total/NA	Water	8260D SIM	
240-237234-6	MW-220S_110625	Total/NA	Water	8260D SIM	
MB 240-680267/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-680267/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-237234-2 MS	MW-18-MS_110625	Total/NA	Water	8260D SIM	
240-237234-2 MSD	MW-18-MSD_110625	Total/NA	Water	8260D SIM	

Analysis Batch: 680407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237234-3	MW-21_110625	Total/NA	Water	8260D	
240-237234-4	DUP-01	Total/NA	Water	8260D	
MB 240-680407/9	Method Blank	Total/NA	Water	8260D	
LCS 240-680407/4	Lab Control Sample	Total/NA	Water	8260D	
240-237246-E-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-237246-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-237234-1

Client Sample ID: TRIP BLANK_45

Lab Sample ID: 240-237234-1

Date Collected: 11/06/25 00:00

Matrix: Water

Date Received: 11/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	680231	LEE	EET CLE	11/12/25 15:16

Client Sample ID: MW-18_110625

Lab Sample ID: 240-237234-2

Date Collected: 11/06/25 10:30

Matrix: Water

Date Received: 11/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	680231	LEE	EET CLE	11/12/25 15:35
Total/NA	Analysis	8260D SIM		1	680267	R5XG	EET CLE	11/12/25 17:58

Client Sample ID: MW-21_110625

Lab Sample ID: 240-237234-3

Date Collected: 11/06/25 11:40

Matrix: Water

Date Received: 11/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	680407	LEE	EET CLE	11/13/25 11:12
Total/NA	Analysis	8260D SIM		1	680267	R5XG	EET CLE	11/12/25 18:21

Client Sample ID: DUP-01

Lab Sample ID: 240-237234-4

Date Collected: 11/06/25 00:00

Matrix: Water

Date Received: 11/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		5	680407	LEE	EET CLE	11/13/25 11:31
Total/NA	Analysis	8260D SIM		1	680267	R5XG	EET CLE	11/12/25 18:45

Client Sample ID: MW-20_110625

Lab Sample ID: 240-237234-5

Date Collected: 11/06/25 12:55

Matrix: Water

Date Received: 11/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	680231	LEE	EET CLE	11/12/25 16:31
Total/NA	Analysis	8260D SIM		1	680267	R5XG	EET CLE	11/12/25 19:08

Client Sample ID: MW-220S_110625

Lab Sample ID: 240-237234-6

Date Collected: 11/06/25 13:55

Matrix: Water

Date Received: 11/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	680231	LEE	EET CLE	11/12/25 16:50
Total/NA	Analysis	8260D SIM		1	680267	R5XG	EET CLE	11/12/25 19:32

Laboratory References:

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

Accreditation/Certification Summary

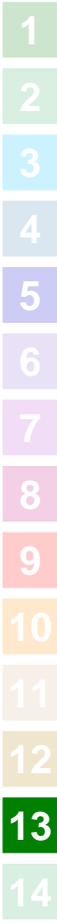
Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-237234-1

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-26
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



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

Client Accadis Site Name _____
 Cooler Received on 11/8/25 Opened on 11/11/25
 FedEx 1st 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 # 13 (CF + 0 L °C) Observed Cooler Temp _____ °C Corrected Cooler Temp _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No NA
 -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 (LIHg/MeHg)? Yes No NA
 -Were tamper/custody seals intact and uncompromised? Yes No NA
 3 Shippers' packing slip attached to the cooler(s)? Yes No NA
 4 Did custody papers accompany the sample(s)? Yes No NA
 5 Were the custody papers relinquished & signed in the appropriate place? Yes No NA
 6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No NA
 7 Did all bottles arrive in good condition (Unbroken)? Yes No NA
 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No NA
 9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No NA
 10 Were correct bottle(s) used for the test(s) indicated? Yes No NA
 11 Sufficient quantity received to perform indicated analyses? Yes No NA
 12 Are these work share samples and all listed on the COC? Yes No NA

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 NA
 15 Were air bubbles >6 mm in any VOA vials? Larger than this Yes No NA
 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # NA Yes No NA
 17 Was a LIHg or MeHg trip blank present? Yes No NA

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
 Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page
 Labeled by: _____
 Labels Verified by: _____

19. SAMPLE CONDITION
 Sample(s) _____ were received after the recommended holding time had expired
 Sample(s) _____ were received in a broken container
 Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory
 Time preserved _____ Preservative(s) added/Lot number(s) _____
 VOA Sample Preservation - Date/Time VOAs Frozen _____



Temperature readings

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservation</u> <u>Temp</u>	<u>Preservation</u> <u>Added</u>	<u>Preservation</u> <u>Lot Number</u>
TRJP BLANK_45	240-237234-A-1	Voa Vial 40ml - Hydrochloric Acid				
MW-18_110625	240-237234-A-2	Voa Vial 40ml - Hydrochloric Acid				
MW-18_110625	240-237234-A-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-18_110625	240-237234-A-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-18_110625	240-237234-B-2	Voa Vial 40ml - Hydrochloric Acid				
MW-18_110625	240-237234-B-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-18_110625	240-237234-B-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-18_110625	240-237234-C-2	Voa Vial 40ml - Hydrochloric Acid				
MW-18_110625	240-237234-C-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-18_110625	240-237234-C-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-18_110625	240-237234-D-2	Voa Vial 40ml - Hydrochloric Acid				
MW-18_110625	240-237234-D-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-18_110625	240-237234-E-2	Voa Vial 40ml - Hydrochloric Acid				
MW-18_110625	240-237234-E-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-18_110625	240-237234-E-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-18_110625	240-237234-F-2	Voa Vial 40ml - Hydrochloric Acid				
MW-18_110625	240 237234 F 2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-18_110625	240-237234-F-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-21_110625	240 237234-A-3	Voa Vial 40ml - Hydrochloric Acid				
MW-21_110625	240-237234-B-3	Voa Vial 40ml - Hydrochloric Acid				
MW-21_110625	240-237234-C-3	Voa Vial 40ml - Hydrochloric Acid				
MW-21_110625	240-237234-D-3	Voa Vial 40ml - Hydrochloric Acid				
MW-21_110625	240-237234 E-3	Voa Vial 40ml - Hydrochloric Acid				
MW-21_110625	240-237234-F-3	Voa Vial 40ml - Hydrochloric Acid				
DUP-01	240-237234 A-4	Voa Vial 40ml - Hydrochloric Acid				
DUP-01	240-237234-B-4	Voa Vial 40ml - Hydrochloric Acid				
DUP-01	240-237234-C-4	Voa Vial 40ml - Hydrochloric Acid				
DUP-01	240-237234-D-4	Voa Vial 40ml - Hydrochloric Acid				
DUP-01	240-237234-E-4	Voa Vial 40ml - Hydrochloric Acid				
DUP-01	240 237234 F-4	Voa Vial 40ml - Hydrochloric Acid				
MW-20_110625	240-237234-A-5	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>pH</u>	<u>Temp</u>	<u>Added</u>
					<u>Lot Number</u>
MMW-20_110625	240 237234-B 5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____
MMW-20_110625	240-237234-C-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____
MMW-20_110625	240-237234-D-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____
MMW-20_110625	240-237234 E-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____
MMW-20_110625	240-237234-F-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____
MMW-220S_110625	240 237234-A-6	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____
MMW-220S_110625	240-237234-B-6	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____
MMW-220S_110625	240-237234-C-6	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____
MMW-220S_110625	240-237234-D-6	Voa Vial 40ml Hydrochloric Acid	_____	_____	_____
MMW-220S_110625	240-237234-E-6	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____
MMW-220S_110625	240-237234-F-6	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____

DATA VERIFICATION REPORT



November 17, 2025

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

CADENA project ID: E203728
Project: Ford Livonia Transmission Plant - ON-SITE Soil Gas, Ground Water and Soil
Project number: 30251157.401.04 LTP
Event Specific Scope of Work References: Sample COC
Laboratory: Eurofins Environment Testing LLC - Cleveland
Laboratory submittal: 237234-1
Sample date: 2025-11-06
Report received by CADENA: 2025-11-17
Initial Data Verification completed by CADENA: 2025-11-17
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, 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.

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

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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: 237234-1

Analyte	Cas No.	Sample Name: TRIP BLANK_45				MW-18_110625				MW-21_110625				DUP-01				MW-20_110625				MW-220S_110625			
		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																									
<u>OSW-8260D</u>																									
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	5.0	ug/l	---	ND	5.0	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	5.0	ug/l	---	ND	5.0	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	5.0	ug/l	---	ND	5.0	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	5.0	ug/l	---	ND	5.0	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	5.0	ug/l	---	ND	5.0	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	5.0	ug/l	---	ND	5.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
<u>OSW-8260DSIM</u>																									
1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	1.7	2.0	ug/l	J	1.7	2.0	ug/l	J	ND	2.0	ug/l	---	ND	2.0	ug/l	---