

ANALYTICAL REPORT

PREPARED FOR

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Generated 9/1/2025 12:28:09 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-231478-1

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: 240-231478-1

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Arcadis US Inc.
Project: Ford LTP

Job ID: 240-231478-1

Job ID: 240-231478-1

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Job Narrative 240-231478-1

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 8/22/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.7°C and 2.2°C.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Method Summary

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

Job ID: 240-231478-1

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: 240-231478-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-231478-1	TRIP BLANK_52	Water	08/20/25 00:00	08/22/25 08:00	Michigan
240-231478-2	MW-02_082025	Water	08/20/25 09:40	08/22/25 08:00	Michigan
240-231478-3	MW-04_082025	Water	08/20/25 10:45	08/22/25 08:00	Michigan
240-231478-4	MW-10_082025	Water	08/20/25 11:50	08/22/25 08:00	Michigan
240-231478-5	PW-16-01_082025	Water	08/20/25 13:50	08/22/25 08:00	Michigan
240-231478-6	DUP-01	Water	08/20/25 00:00	08/22/25 08:00	Michigan
240-231478-7	DUP-02	Water	08/20/25 00:00	08/22/25 08:00	Michigan

Detection Summary

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

Job ID: 240-231478-1

Client Sample ID: TRIP BLANK_52

Lab Sample ID: 240-231478-1

No Detections.

Client Sample ID: MW-02_082025

Lab Sample ID: 240-231478-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	4.3		2.0	0.86	ug/L	1		8260D SIM	Total/NA
cis-1,2-Dichloroethene	5500		200	92	ug/L	200		8260D	Total/NA
trans-1,2-Dichloroethene	800		200	100	ug/L	200		8260D	Total/NA
Vinyl chloride	320		200	90	ug/L	200		8260D	Total/NA

Client Sample ID: MW-04_082025

Lab Sample ID: 240-231478-3

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
cis-1,2-Dichloroethene	6400		200	92	ug/L	200		8260D	Total/NA
trans-1,2-Dichloroethene	220		200	100	ug/L	200		8260D	Total/NA
Trichloroethene	94	J	200	88	ug/L	200		8260D	Total/NA
Vinyl chloride	2100		200	90	ug/L	200		8260D	Total/NA

Client Sample ID: MW-10_082025

Lab Sample ID: 240-231478-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	4.8		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	6100		100	45	ug/L	100		8260D	Total/NA

Client Sample ID: PW-16-01_082025

Lab Sample ID: 240-231478-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	53		1.0	0.46	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	3.3		1.0	0.51	ug/L	1		8260D	Total/NA
Vinyl chloride	1000		25	11	ug/L	25		8260D	Total/NA

Client Sample ID: DUP-01

Lab Sample ID: 240-231478-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.9		2.0	0.86	ug/L	1		8260D SIM	Total/NA
cis-1,2-Dichloroethene	5400		130	58	ug/L	125		8260D	Total/NA
trans-1,2-Dichloroethene	770		130	64	ug/L	125		8260D	Total/NA
Vinyl chloride	300		130	56	ug/L	125		8260D	Total/NA

Client Sample ID: DUP-02

Lab Sample ID: 240-231478-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	4.3		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	6400		200	90	ug/L	200		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: 240-231478-1

Client Sample ID: TRIP BLANK_52

Lab Sample ID: 240-231478-1

Date Collected: 08/20/25 00:00

Matrix: Water

Date Received: 08/22/25 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			08/28/25 12:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/28/25 12:06	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/28/25 12:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/28/25 12:06	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/28/25 12:06	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/28/25 12:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137		08/28/25 12:06	1
4-Bromofluorobenzene (Surr)	100		56 - 136		08/28/25 12:06	1
Toluene-d8 (Surr)	100		78 - 122		08/28/25 12:06	1
Dibromofluoromethane (Surr)	103		73 - 120		08/28/25 12:06	1

Client Sample Results

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

Job ID: 240-231478-1

Client Sample ID: MW-02_082025

Lab Sample ID: 240-231478-2

Date Collected: 08/20/25 09:40

Matrix: Water

Date Received: 08/22/25 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	4.3		2.0	0.86	ug/L			08/28/25 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		68 - 127					08/28/25 14:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	200	U	200	98	ug/L			08/28/25 13:41	200
cis-1,2-Dichloroethene	5500		200	92	ug/L			08/28/25 13:41	200
Tetrachloroethene	200	U	200	88	ug/L			08/28/25 13:41	200
trans-1,2-Dichloroethene	800		200	100	ug/L			08/28/25 13:41	200
Trichloroethene	200	U	200	88	ug/L			08/28/25 13:41	200
Vinyl chloride	320		200	90	ug/L			08/28/25 13:41	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137					08/28/25 13:41	200
4-Bromofluorobenzene (Surr)	99		56 - 136					08/28/25 13:41	200
Toluene-d8 (Surr)	101		78 - 122					08/28/25 13:41	200
Dibromofluoromethane (Surr)	106		73 - 120					08/28/25 13:41	200

Client Sample Results

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

Job ID: 240-231478-1

Client Sample ID: MW-04_082025

Lab Sample ID: 240-231478-3

Date Collected: 08/20/25 10:45

Matrix: Water

Date Received: 08/22/25 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			08/28/25 14:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		68 - 127					08/28/25 14:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	200	U	200	98	ug/L			08/28/25 13:17	200
cis-1,2-Dichloroethene	6400		200	92	ug/L			08/28/25 13:17	200
Tetrachloroethene	200	U	200	88	ug/L			08/28/25 13:17	200
trans-1,2-Dichloroethene	220		200	100	ug/L			08/28/25 13:17	200
Trichloroethene	94	J	200	88	ug/L			08/28/25 13:17	200
Vinyl chloride	2100		200	90	ug/L			08/28/25 13:17	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		62 - 137					08/28/25 13:17	200
4-Bromofluorobenzene (Surr)	103		56 - 136					08/28/25 13:17	200
Toluene-d8 (Surr)	102		78 - 122					08/28/25 13:17	200
Dibromofluoromethane (Surr)	107		73 - 120					08/28/25 13:17	200

Client Sample Results

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

Job ID: 240-231478-1

Client Sample ID: MW-10_082025

Lab Sample ID: 240-231478-4

Date Collected: 08/20/25 11:50

Matrix: Water

Date Received: 08/22/25 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	4.8		2.0	0.86	ug/L			08/28/25 14:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		68 - 127					08/28/25 14:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	100	U	100	49	ug/L			08/28/25 14:51	100
cis-1,2-Dichloroethene	100	U	100	46	ug/L			08/28/25 14:51	100
Tetrachloroethene	100	U	100	44	ug/L			08/28/25 14:51	100
trans-1,2-Dichloroethene	100	U	100	51	ug/L			08/28/25 14:51	100
Trichloroethene	100	U	100	44	ug/L			08/28/25 14:51	100
Vinyl chloride	6100		100	45	ug/L			08/28/25 14:51	100
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137					08/28/25 14:51	100
4-Bromofluorobenzene (Surr)	97		56 - 136					08/28/25 14:51	100
Toluene-d8 (Surr)	98		78 - 122					08/28/25 14:51	100
Dibromofluoromethane (Surr)	100		73 - 120					08/28/25 14:51	100

Client Sample Results

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

Job ID: 240-231478-1

Client Sample ID: PW-16-01_082025

Lab Sample ID: 240-231478-5

Date Collected: 08/20/25 13:50

Matrix: Water

Date Received: 08/22/25 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			08/28/25 15:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		68 - 127					08/28/25 15:19	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			08/28/25 12:30	1
cis-1,2-Dichloroethene	53		1.0	0.46	ug/L			08/28/25 12:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/28/25 12:30	1
trans-1,2-Dichloroethene	3.3		1.0	0.51	ug/L			08/28/25 12:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/28/25 12:30	1
Vinyl chloride	1000		25	11	ug/L			08/29/25 17:34	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137					08/28/25 12:30	1
1,2-Dichloroethane-d4 (Surr)	105		62 - 137					08/29/25 17:34	25
4-Bromofluorobenzene (Surr)	101		56 - 136					08/28/25 12:30	1
4-Bromofluorobenzene (Surr)	99		56 - 136					08/29/25 17:34	25
Toluene-d8 (Surr)	101		78 - 122					08/28/25 12:30	1
Toluene-d8 (Surr)	99		78 - 122					08/29/25 17:34	25
Dibromofluoromethane (Surr)	106		73 - 120					08/28/25 12:30	1
Dibromofluoromethane (Surr)	106		73 - 120					08/29/25 17:34	25

Client Sample Results

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

Job ID: 240-231478-1

Client Sample ID: DUP-01

Lab Sample ID: 240-231478-6

Date Collected: 08/20/25 00:00

Matrix: Water

Date Received: 08/22/25 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	3.9		2.0	0.86	ug/L			08/26/25 10:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		68 - 127					08/26/25 10:38	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	130	U	130	61	ug/L			08/28/25 14:28	125
cis-1,2-Dichloroethene	5400		130	58	ug/L			08/28/25 14:28	125
Tetrachloroethene	130	U	130	55	ug/L			08/28/25 14:28	125
trans-1,2-Dichloroethene	770		130	64	ug/L			08/28/25 14:28	125
Trichloroethene	130	U	130	55	ug/L			08/28/25 14:28	125
Vinyl chloride	300		130	56	ug/L			08/28/25 14:28	125
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137					08/28/25 14:28	125
4-Bromofluorobenzene (Surr)	102		56 - 136					08/28/25 14:28	125
Toluene-d8 (Surr)	102		78 - 122					08/28/25 14:28	125
Dibromofluoromethane (Surr)	104		73 - 120					08/28/25 14:28	125

Client Sample Results

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

Job ID: 240-231478-1

Client Sample ID: DUP-02

Lab Sample ID: 240-231478-7

Date Collected: 08/20/25 00:00

Matrix: Water

Date Received: 08/22/25 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	4.3		2.0	0.86	ug/L			08/26/25 11:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		68 - 127					08/26/25 11:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	200	U	200	98	ug/L			08/29/25 18:20	200
cis-1,2-Dichloroethene	200	U	200	92	ug/L			08/29/25 18:20	200
Tetrachloroethene	200	U	200	88	ug/L			08/29/25 18:20	200
trans-1,2-Dichloroethene	200	U	200	100	ug/L			08/29/25 18:20	200
Trichloroethene	200	U	200	88	ug/L			08/29/25 18:20	200
Vinyl chloride	6400		200	90	ug/L			08/29/25 18:20	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137					08/29/25 18:20	200
4-Bromofluorobenzene (Surr)	102		56 - 136					08/29/25 18:20	200
Toluene-d8 (Surr)	102		78 - 122					08/29/25 18:20	200
Dibromofluoromethane (Surr)	108		73 - 120					08/29/25 18:20	200

Surrogate Summary

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

Job ID: 240-231478-1

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)
180-194725-F-1 MS	Matrix Spike	97	100	100	99
180-194725-F-1 MSD	Matrix Spike Duplicate	98	100	103	101
240-231478-1	TRIP BLANK_52	104	100	100	103
240-231478-2	MW-02_082025	107	99	101	106
240-231478-3	MW-04_082025	110	103	102	107
240-231478-4	MW-10_082025	104	97	98	100
240-231478-5	PW-16-01_082025	108	101	101	106
240-231478-5	PW-16-01_082025	105	99	99	106
240-231478-6	DUP-01	107	102	102	104
240-231478-7	DUP-02	108	102	102	108
240-231559-A-38 MS	Matrix Spike	100	100	101	102
240-231559-A-38 MSD	Matrix Spike Duplicate	99	103	102	102
LCS 240-669589/5	Lab Control Sample	96	100	102	101
LCS 240-669786/5	Lab Control Sample	99	82	103	103
MB 240-669589/9	Method Blank	109	101	102	106
MB 240-669786/9	Method Blank	108	101	103	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 (68-127)			
240-231293-E-4 MS	Matrix Spike	79			
240-231293-E-4 MSD	Matrix Spike Duplicate	81			
240-231475-A-2 MS	Matrix Spike	81			
240-231475-A-2 MSD	Matrix Spike Duplicate	81			
240-231478-2	MW-02_082025	87			
240-231478-3	MW-04_082025	89			
240-231478-4	MW-10_082025	86			
240-231478-5	PW-16-01_082025	86			
240-231478-6	DUP-01	83			
240-231478-7	DUP-02	80			
LCS 240-669266/5	Lab Control Sample	81			
LCS 240-669616/6	Lab Control Sample	90			
MB 240-669266/7	Method Blank	82			
MB 240-669616/8	Method Blank	85			
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					

QC Sample Results

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

Job ID: 240-231478-1

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

Lab Sample ID: MB 240-669589/9

Matrix: Water

Analysis Batch: 669589

Client Sample ID: Method Blank

Prep Type: Total/NA

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			08/28/25 11:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/28/25 11:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/28/25 11:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/28/25 11:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/28/25 11:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/28/25 11:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137		08/28/25 11:43	1
4-Bromofluorobenzene (Surr)	101		56 - 136		08/28/25 11:43	1
Toluene-d8 (Surr)	102		78 - 122		08/28/25 11:43	1
Dibromofluoromethane (Surr)	106		73 - 120		08/28/25 11:43	1

Lab Sample ID: LCS 240-669589/5

Matrix: Water

Analysis Batch: 669589

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	25.5		ug/L		102	63 - 134
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	77 - 123
Tetrachloroethene	25.0	24.1		ug/L		96	76 - 123
trans-1,2-Dichloroethene	25.0	25.2		ug/L		101	75 - 124
Trichloroethene	25.0	24.6		ug/L		98	70 - 122
Vinyl chloride	25.0	21.5		ug/L		86	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

Lab Sample ID: 180-194725-F-1 MS

Matrix: Water

Analysis Batch: 669589

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	10	U	250	256		ug/L		103	56 - 135
Tetrachloroethene	10	U	250	234		ug/L		93	62 - 131
Trichloroethene	10	U	250	237		ug/L		95	61 - 124
Vinyl chloride	10	U	250	226		ug/L		90	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-231478-1

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

Lab Sample ID: 180-194725-F-1 MSD

Matrix: Water

Analysis Batch: 669589

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	10	U	250	265		ug/L		106	56 - 135	3	26
Tetrachloroethene	10	U	250	241		ug/L		96	62 - 131	3	20
Trichloroethene	10	U	250	240		ug/L		96	61 - 124	1	15
Vinyl chloride	10	U	250	218		ug/L		87	43 - 157	4	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

Lab Sample ID: MB 240-669786/9

Matrix: Water

Analysis Batch: 669786

Client Sample ID: Method Blank

Prep Type: Total/NA

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			08/29/25 12:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/29/25 12:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/29/25 12:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/29/25 12:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/29/25 12:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/29/25 12:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137		08/29/25 12:04	1
4-Bromofluorobenzene (Surr)	101		56 - 136		08/29/25 12:04	1
Toluene-d8 (Surr)	103		78 - 122		08/29/25 12:04	1
Dibromofluoromethane (Surr)	106		73 - 120		08/29/25 12:04	1

Lab Sample ID: LCS 240-669786/5

Matrix: Water

Analysis Batch: 669786

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	24.9		ug/L		100	63 - 134
cis-1,2-Dichloroethene	25.0	24.7		ug/L		99	77 - 123
Tetrachloroethene	25.0	23.7		ug/L		95	76 - 123
trans-1,2-Dichloroethene	25.0	24.9		ug/L		100	75 - 124
Trichloroethene	25.0	23.8		ug/L		95	70 - 122
Vinyl chloride	25.0	20.7		ug/L		83	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	82		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	103		73 - 120

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-231478-1

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

Lab Sample ID: 240-231559-A-38 MS

Matrix: Water

Analysis Batch: 669786

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	10	U	250	260		ug/L		104	56 - 135
cis-1,2-Dichloroethene	190		250	421		ug/L		90	66 - 128
Tetrachloroethene	10	U	250	233		ug/L		93	62 - 131
trans-1,2-Dichloroethene	10	U	250	252		ug/L		101	56 - 136
Trichloroethene	10	U	250	244		ug/L		98	61 - 124
Vinyl chloride	88		250	291		ug/L		81	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

Lab Sample ID: 240-231559-A-38 MSD

Matrix: Water

Analysis Batch: 669786

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	10	U	250	263		ug/L		105	56 - 135	1	26
cis-1,2-Dichloroethene	190		250	436		ug/L		97	66 - 128	4	14
Tetrachloroethene	10	U	250	241		ug/L		96	62 - 131	3	20
trans-1,2-Dichloroethene	10	U	250	251		ug/L		101	56 - 136	0	15
Trichloroethene	10	U	250	244		ug/L		98	61 - 124	0	15
Vinyl chloride	88		250	301		ug/L		85	43 - 157	3	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	103		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

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

Lab Sample ID: MB 240-669266/7

Matrix: Water

Analysis Batch: 669266

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			08/26/25 09:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		68 - 127		08/26/25 09:50	1

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-231478-1

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

Lab Sample ID: LCS 240-669266/5

Matrix: Water

Analysis Batch: 669266

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	7.71		ug/L		77	75 - 121		
Surrogate		LCS %Recovery	LCS Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)		81		68 - 127							

Lab Sample ID: 240-231293-E-4 MS

Matrix: Water

Analysis Batch: 669266

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	7.71		ug/L		77	20 - 180		
Surrogate		MS %Recovery	MS Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)		79		68 - 127							

Lab Sample ID: 240-231293-E-4 MSD

Matrix: Water

Analysis Batch: 669266

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	7.84		ug/L		78	20 - 180	2	20
Surrogate		MSD %Recovery	MSD Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)		81		68 - 127							

Lab Sample ID: MB 240-669616/8

Matrix: Water

Analysis Batch: 669616

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			08/28/25 11:43	1
Surrogate		MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)		85		68 - 127				08/28/25 11:43	1

Lab Sample ID: LCS 240-669616/6

Matrix: Water

Analysis Batch: 669616

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	8.27		ug/L		83	75 - 121		
Surrogate		LCS %Recovery	LCS Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)		90		68 - 127							

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-231478-1

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

Lab Sample ID: 240-231475-A-2 MS

Matrix: Water

Analysis Batch: 669616

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	1.5	J	10.0	9.50		ug/L		80	20 - 180		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	81		68 - 127								

Lab Sample ID: 240-231475-A-2 MSD

Matrix: Water

Analysis Batch: 669616

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	1.5	J	10.0	10.0		ug/L		85	20 - 180	5	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	81		68 - 127								

QC Association Summary

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

Job ID: 240-231478-1

GC/MS VOA

Analysis Batch: 669266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-231478-6	DUP-01	Total/NA	Water	8260D SIM	
240-231478-7	DUP-02	Total/NA	Water	8260D SIM	
MB 240-669266/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-669266/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-231293-E-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-231293-E-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 669589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-231478-1	TRIP BLANK_52	Total/NA	Water	8260D	
240-231478-2	MW-02_082025	Total/NA	Water	8260D	
240-231478-3	MW-04_082025	Total/NA	Water	8260D	
240-231478-4	MW-10_082025	Total/NA	Water	8260D	
240-231478-5	PW-16-01_082025	Total/NA	Water	8260D	
240-231478-6	DUP-01	Total/NA	Water	8260D	
MB 240-669589/9	Method Blank	Total/NA	Water	8260D	
LCS 240-669589/5	Lab Control Sample	Total/NA	Water	8260D	
180-194725-F-1 MS	Matrix Spike	Total/NA	Water	8260D	
180-194725-F-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 669616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-231478-2	MW-02_082025	Total/NA	Water	8260D SIM	
240-231478-3	MW-04_082025	Total/NA	Water	8260D SIM	
240-231478-4	MW-10_082025	Total/NA	Water	8260D SIM	
240-231478-5	PW-16-01_082025	Total/NA	Water	8260D SIM	
MB 240-669616/8	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-669616/6	Lab Control Sample	Total/NA	Water	8260D SIM	
240-231475-A-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-231475-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 669786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-231478-5	PW-16-01_082025	Total/NA	Water	8260D	
240-231478-7	DUP-02	Total/NA	Water	8260D	
MB 240-669786/9	Method Blank	Total/NA	Water	8260D	
LCS 240-669786/5	Lab Control Sample	Total/NA	Water	8260D	
240-231559-A-38 MS	Matrix Spike	Total/NA	Water	8260D	
240-231559-A-38 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-231478-1

Client Sample ID: TRIP BLANK_52

Lab Sample ID: 240-231478-1

Date Collected: 08/20/25 00:00

Matrix: Water

Date Received: 08/22/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	669589	MS	EET CLE	08/28/25 12:06

Client Sample ID: MW-02_082025

Lab Sample ID: 240-231478-2

Date Collected: 08/20/25 09:40

Matrix: Water

Date Received: 08/22/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		200	669589	MS	EET CLE	08/28/25 13:41
Total/NA	Analysis	8260D SIM		1	669616	R5XG	EET CLE	08/28/25 14:07

Client Sample ID: MW-04_082025

Lab Sample ID: 240-231478-3

Date Collected: 08/20/25 10:45

Matrix: Water

Date Received: 08/22/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		200	669589	MS	EET CLE	08/28/25 13:17
Total/NA	Analysis	8260D SIM		1	669616	R5XG	EET CLE	08/28/25 14:31

Client Sample ID: MW-10_082025

Lab Sample ID: 240-231478-4

Date Collected: 08/20/25 11:50

Matrix: Water

Date Received: 08/22/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		100	669589	MS	EET CLE	08/28/25 14:51
Total/NA	Analysis	8260D SIM		1	669616	R5XG	EET CLE	08/28/25 14:55

Client Sample ID: PW-16-01_082025

Lab Sample ID: 240-231478-5

Date Collected: 08/20/25 13:50

Matrix: Water

Date Received: 08/22/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	669589	MS	EET CLE	08/28/25 12:30
Total/NA	Analysis	8260D		25	669786	MS	EET CLE	08/29/25 17:34
Total/NA	Analysis	8260D SIM		1	669616	R5XG	EET CLE	08/28/25 15:19

Client Sample ID: DUP-01

Lab Sample ID: 240-231478-6

Date Collected: 08/20/25 00:00

Matrix: Water

Date Received: 08/22/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		125	669589	MS	EET CLE	08/28/25 14:28
Total/NA	Analysis	8260D SIM		1	669266	R5XG	EET CLE	08/26/25 10:38

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Lab Chronicle

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

Job ID: 240-231478-1

Client Sample ID: DUP-02
Date Collected: 08/20/25 00:00
Date Received: 08/22/25 08:00

Lab Sample ID: 240-231478-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		200	669786	MS	EET CLE	08/29/25 18:20
Total/NA	Analysis	8260D SIM		1	669266	R5XG	EET CLE	08/26/25 11:02

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: 240-231478-1

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	225024	09-30-25
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	11-04-25
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-26
Texas	NELAP	T104704517	08-31-25
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-15-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-26

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Eurofins - Cleveland Sample Receipt Form/Narrative		Login # _____	
Barberton Facility			
Client <u>Aradis</u>	Site Name _____	Cooler unpacked by: <u>MBurner</u>	
Cooler Received on <u>8/22/25</u>	Opened on <u>8/22/25</u>		
FedEx: 1 st Gnd Exp <u>UPS</u> <u>FAS</u> <u>Waypoint</u>	Client Drop Off <u>Eurofins Courier</u>	Other _____	
Receipt After-hours Drop-off Date/Time _____		Storage Location _____	
Eurofins Cooler # <u>EL</u>	Foam Box _____	Client Cooler _____	Box _____ Other _____
Packing material used. <u>Bubble Wrap</u> Foam _____ Plastic Bag _____ None _____ Other _____			
COOLANT - <u>Water</u> - Blue Ice _____ Dry Ice _____ Water _____ None _____			
1 Cooler temperature upon receipt <u>See Multiple Cooler Form</u>			
IR GUN # _____ (CF _____ °C)		Observed Cooler Temp _____ °C Corrected Cooler Temp _____ °C	
2 Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>2</u>			
-Were the seals on the outside of the cooler(s) signed & dated? <u>Yes</u> <u>No</u> <u>NA</u>			
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? <u>Yes</u> <u>No</u> <u>NA</u>			
-Were tamper/custody seals intact and uncompromised? <u>Yes</u> <u>No</u> <u>NA</u>			
3 Shippers' packing slip attached to the cooler(s)? <u>Yes</u> <u>No</u> <u>NA</u>			
4 Did custody papers accompany the sample(s)? <u>Yes</u> <u>No</u> <u>NA</u>			
5 Were the custody papers relinquished & signed in the appropriate place? <u>Yes</u> <u>No</u> <u>NA</u>			
6 Was/were the person(s) who collected the samples clearly identified on the COC? <u>Yes</u> <u>No</u> <u>NA</u>			
7 Did all bottles arrive in good condition (Unbroken)? <u>Yes</u> <u>No</u> <u>NA</u>			
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? <u>Yes</u> <u>No</u> <u>NA</u>			
9 For each sample, does the COC specify preservatives <u>YN</u> , # of containers <u>YN</u> , and sample type of grab/comp <u>YN</u> ? <u>Yes</u> <u>No</u> <u>NA</u>			
10 Were correct bottle(s) used for the test(s) indicated? <u>Yes</u> <u>No</u> <u>NA</u>			
11 Sufficient quantity received to perform indicated analyses? <u>Yes</u> <u>No</u> <u>NA</u>			
12 Are these work share samples and all listed on the COC? <u>Yes</u> <u>No</u> <u>NA</u>			
13 If yes, Questions 13-17 have been checked at the originating laboratory			
14 Were all preserved sample(s) at the correct pH upon receipt? <u>Yes</u> <u>No</u> <u>NA</u> pH Strip Lot# HC463162			
15 Were VOAs on the COC? <u>Yes</u> <u>No</u> <u>NA</u>			
16 Were air bubbles >6 mm in any VOA vials? <u>Yes</u> <u>No</u> <u>NA</u>			
17 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____			
17 Was a LL Hg or Me Hg trip blank present? <u>Yes</u> <u>No</u> <u>NA</u>			
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____			
Concerning _____			
18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page		Labeled by: <u>MB</u> Labels Verified by: <u>JP</u>	
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 _____			

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

Login # _____

9/1/2025

[illegible]

Temperature readings

Client Sample ID	Lab ID	Container Type	Container pH	Preservation Temp	Preservation Added	Preservation Lot Number
TRIP BLANK_52	240-231478 A-1	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-02_082025	240-231478-A-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-02_082025	240-231478-B-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-02_082025	240-231478-C-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-02_082025	240-231478-D-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-02_082025	240-231478-E-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-02_082025	240 231478-F-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-04_082025	240-231478 A-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-04_082025	240-231478-B-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-04_082025	240 231478-C-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-04_082025	240 231478-D-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-04_082025	240-231478 E-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-04_082025	240-231478-F-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-10_082025	240 231478-A-4	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-10_082025	240 231478-B-4	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-10_082025	240-231478-C-4	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-10_082025	240-231478-D-4	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-10_082025	240-231478-E-4	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-10_082025	240-231478 F-4	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
PW-16-01_082025	240-231478-A-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
PW-16-01_082025	240 231478-B 5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
PW-16-01_082025	240-231478-C-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
PW-16-01_082025	240 231478-D-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
PW-16-01_082025	240-231478-E-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
PW-16-01_082025	240-231478-F-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-01	240 231478 A-6	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-01	240-231478-B-6	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-01	240-231478-C-6	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-01	240 231478 D-6	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-01	240-231478-E-6	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-01	240 231478-F-6	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-02	240 231478-A-7	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-02	240-231478 B-7	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-02	240 231478-C-7	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-02	240-231478 D-7	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____

<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>Lot Number</u>
DUP-02	240 23 1478-E-7	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
DUP-02	240-23 1478-F 7	Voa Vial 40ml Hydrochloric Acid	_____	_____	_____	_____

DATA VERIFICATION REPORT



September 01, 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: 231478-1

Sample date: 2025-08-20

Report received by CADENA: 2025-09-01

Initial Data Verification completed by CADENA: 2025-09-01

Number of Samples:7

Sample Matrices:Water

Test Categories:GCMS VOC

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

There were no significant QC anomalies or exceptions to report.

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

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203728
Laboratory: Eurofins Environment Testing LLC - Cleveland
Laboratory Submittal: 231478-1

		Sample Name: TRIP BLANK_52					MW-02_082025					MW-04_082025					MW-10_082025					PW-16-01_082025					DUP-01					DUP-02				
		Lab Sample ID: 2402314781					2402314782					2402314783					2402314784					2402314785					2402314786					2402314787				
		Sample Date: 8/20/2025					8/20/2025					8/20/2025					8/20/2025					8/20/2025					8/20/2025					8/20/2025				
Analyte	Cas No.	Report			Valid	Report			Valid	Report			Valid	Report			Valid	Report			Valid	Report			Valid	Report			Valid							
		Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier							
GC/MS VOC																																				
OSW-8260D																																				
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	200	ug/l	---	ND	200	ug/l	---	ND	100	ug/l	---	ND	1.0	ug/l	---	ND	130	ug/l	---	ND	200	ug/l	---							
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	5500	200	ug/l	---	6400	200	ug/l	---	ND	100	ug/l	---	53	1.0	ug/l	---	5400	130	ug/l	---	ND	200	ug/l	---							
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	200	ug/l	---	ND	200	ug/l	---	ND	100	ug/l	---	ND	1.0	ug/l	---	ND	130	ug/l	---	ND	200	ug/l	---							
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	800	200	ug/l	---	220	200	ug/l	---	ND	100	ug/l	---	3.3	1.0	ug/l	---	770	130	ug/l	---	ND	200	ug/l	---							
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	200	ug/l	---	94	200	ug/l	J	ND	100	ug/l	---	ND	1.0	ug/l	---	ND	130	ug/l	---	ND	200	ug/l	---							
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	320	200	ug/l	---	2100	200	ug/l	---	6100	100	ug/l	---	1000	25	ug/l	---	300	130	ug/l	---	6400	200	ug/l	---							
OSW-8260DSIM																																				
1,4-Dioxane	123-91-1					4.3	2.0	ug/l	---	2.5	2.0	ug/l	---	4.8	2.0	ug/l	---	ND	2.0	ug/l	---	3.9	2.0	ug/l	---	4.3	2.0	ug/l	---							