

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley
Arcadis US Inc.
28550 Cabot Drive
Suite 500
Novi, Michigan 48377

Generated 5/20/2025 7:11:44 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-224503-1

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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Authorized for release by
Michael DelMonico, Project Manager I
Michael.DelMonico@et.eurofinsus.com
(330)966-9783

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Definitions/Glossary

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

Job ID: 240-224503-1

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

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Job Narrative 240-224503-1

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 5/15/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.9°C and 3.1°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: 240-224503-1

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: 240-224503-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-224503-1	TRIP BLANK_129	Water	05/12/25 00:00	05/15/25 08:00
240-224503-2	MW-24_051225	Water	05/12/25 09:40	05/15/25 08:00
240-224503-3	MW-219S_051225	Water	05/12/25 10:45	05/15/25 08:00
240-224503-4	MW-33_051225	Water	05/12/25 12:05	05/15/25 08:00
240-224503-7	MW-47_051225	Water	05/12/25 13:20	05/15/25 08:00
240-224503-8	MW-70_051225	Water	05/12/25 14:30	05/15/25 08:00
240-224503-9	DUP-05	Water	05/12/25 00:00	05/15/25 08:00

Detection Summary

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

Job ID: 240-224503-1

Client Sample ID: TRIP BLANK_129

Lab Sample ID: 240-224503-1

No Detections.

Client Sample ID: MW-24_051225

Lab Sample ID: 240-224503-2

No Detections.

Client Sample ID: MW-219S_051225

Lab Sample ID: 240-224503-3

No Detections.

Client Sample ID: MW-33_051225

Lab Sample ID: 240-224503-4

No Detections.

Client Sample ID: MW-47_051225

Lab Sample ID: 240-224503-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.3	J	2.0	0.86	ug/L	1		8260D SIM	Total/NA
cis-1,2-Dichloroethene	4.8		1.0	0.46	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	0.76	J	1.0	0.51	ug/L	1		8260D	Total/NA
Vinyl chloride	3.8		1.0	0.45	ug/L	1		8260D	Total/NA

Client Sample ID: MW-70_051225

Lab Sample ID: 240-224503-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	9.1		2.0	0.86	ug/L	1		8260D SIM	Total/NA
cis-1,2-Dichloroethene	130		13	5.8	ug/L	12.5		8260D	Total/NA
Vinyl chloride	520		13	5.6	ug/L	12.5		8260D	Total/NA

Client Sample ID: DUP-05

Lab Sample ID: 240-224503-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	9.5		2.0	0.86	ug/L	1		8260D SIM	Total/NA
cis-1,2-Dichloroethene	140		25	12	ug/L	25		8260D	Total/NA
Vinyl chloride	540		25	11	ug/L	25		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: 240-224503-1

Client Sample ID: TRIP BLANK_129

Lab Sample ID: 240-224503-1

Date Collected: 05/12/25 00:00

Matrix: Water

Date Received: 05/15/25 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/18/25 16:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/25 16:38	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 16:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/25 16:38	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 16:38	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/25 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		62 - 137		05/18/25 16:38	1
4-Bromofluorobenzene (Surr)	91		56 - 136		05/18/25 16:38	1
Toluene-d8 (Surr)	100		78 - 122		05/18/25 16:38	1
Dibromofluoromethane (Surr)	107		73 - 120		05/18/25 16:38	1

Client Sample Results

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

Job ID: 240-224503-1

Client Sample ID: MW-24_051225

Lab Sample ID: 240-224503-2

Date Collected: 05/12/25 09:40

Matrix: Water

Date Received: 05/15/25 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/17/25 15:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		68 - 127					05/17/25 15:09	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			05/18/25 17:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/25 17:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 17:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/25 17:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 17:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/25 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137					05/18/25 17:01	1
4-Bromofluorobenzene (Surr)	92		56 - 136					05/18/25 17:01	1
Toluene-d8 (Surr)	100		78 - 122					05/18/25 17:01	1
Dibromofluoromethane (Surr)	108		73 - 120					05/18/25 17:01	1

Client Sample Results

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

Job ID: 240-224503-1

Client Sample ID: MW-219S_051225

Lab Sample ID: 240-224503-3

Date Collected: 05/12/25 10:45

Matrix: Water

Date Received: 05/15/25 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/17/25 15:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		68 - 127					05/17/25 15:33	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			05/18/25 17:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/25 17:24	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 17:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/25 17:24	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 17:24	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/25 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137					05/18/25 17:24	1
4-Bromofluorobenzene (Surr)	92		56 - 136					05/18/25 17:24	1
Toluene-d8 (Surr)	102		78 - 122					05/18/25 17:24	1
Dibromofluoromethane (Surr)	104		73 - 120					05/18/25 17:24	1

Client Sample Results

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

Job ID: 240-224503-1

Client Sample ID: MW-33_051225

Lab Sample ID: 240-224503-4

Date Collected: 05/12/25 12:05

Matrix: Water

Date Received: 05/15/25 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/17/25 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		68 - 127					05/17/25 15:56	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			05/18/25 18:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/25 18:33	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 18:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/25 18:33	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 18:33	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/25 18:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		62 - 137					05/18/25 18:33	1
4-Bromofluorobenzene (Surr)	87		56 - 136					05/18/25 18:33	1
Toluene-d8 (Surr)	99		78 - 122					05/18/25 18:33	1
Dibromofluoromethane (Surr)	103		73 - 120					05/18/25 18:33	1

Client Sample Results

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

Job ID: 240-224503-1

Client Sample ID: MW-47_051225

Lab Sample ID: 240-224503-7

Date Collected: 05/12/25 13:20

Matrix: Water

Date Received: 05/15/25 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.3	J	2.0	0.86	ug/L			05/17/25 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		68 - 127					05/17/25 16:19	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			05/18/25 18:56	1
cis-1,2-Dichloroethene	4.8		1.0	0.46	ug/L			05/18/25 18:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 18:56	1
trans-1,2-Dichloroethene	0.76	J	1.0	0.51	ug/L			05/18/25 18:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 18:56	1
Vinyl chloride	3.8		1.0	0.45	ug/L			05/18/25 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		62 - 137					05/18/25 18:56	1
4-Bromofluorobenzene (Surr)	92		56 - 136					05/18/25 18:56	1
Toluene-d8 (Surr)	101		78 - 122					05/18/25 18:56	1
Dibromofluoromethane (Surr)	102		73 - 120					05/18/25 18:56	1

Client Sample Results

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

Job ID: 240-224503-1

Client Sample ID: MW-70_051225

Lab Sample ID: 240-224503-8

Date Collected: 05/12/25 14:30

Matrix: Water

Date Received: 05/15/25 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	9.1		2.0	0.86	ug/L			05/17/25 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		68 - 127					05/17/25 16:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	13	U	13	6.1	ug/L			05/18/25 19:19	12.5
cis-1,2-Dichloroethene	130		13	5.8	ug/L			05/18/25 19:19	12.5
Tetrachloroethene	13	U	13	5.5	ug/L			05/18/25 19:19	12.5
trans-1,2-Dichloroethene	13	U	13	6.4	ug/L			05/18/25 19:19	12.5
Trichloroethene	13	U	13	5.5	ug/L			05/18/25 19:19	12.5
Vinyl chloride	520		13	5.6	ug/L			05/18/25 19:19	12.5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		62 - 137					05/18/25 19:19	12.5
4-Bromofluorobenzene (Surr)	91		56 - 136					05/18/25 19:19	12.5
Toluene-d8 (Surr)	100		78 - 122					05/18/25 19:19	12.5
Dibromofluoromethane (Surr)	106		73 - 120					05/18/25 19:19	12.5

Client Sample Results

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

Job ID: 240-224503-1

Client Sample ID: DUP-05

Lab Sample ID: 240-224503-9

Date Collected: 05/12/25 00:00

Matrix: Water

Date Received: 05/15/25 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	9.5		2.0	0.86	ug/L			05/17/25 17:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		68 - 127					05/17/25 17:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	25	U	25	12	ug/L			05/18/25 19:42	25
cis-1,2-Dichloroethene	140		25	12	ug/L			05/18/25 19:42	25
Tetrachloroethene	25	U	25	11	ug/L			05/18/25 19:42	25
trans-1,2-Dichloroethene	25	U	25	13	ug/L			05/18/25 19:42	25
Trichloroethene	25	U	25	11	ug/L			05/18/25 19:42	25
Vinyl chloride	540		25	11	ug/L			05/18/25 19:42	25
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		62 - 137					05/18/25 19:42	25
4-Bromofluorobenzene (Surr)	89		56 - 136					05/18/25 19:42	25
Toluene-d8 (Surr)	99		78 - 122					05/18/25 19:42	25
Dibromofluoromethane (Surr)	108		73 - 120					05/18/25 19:42	25

Surrogate Summary

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

Job ID: 240-224503-1

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)
240-224503-1	TRIP BLANK_129	111	91	100	107
240-224503-2	MW-24_051225	112	92	100	108
240-224503-3	MW-219S_051225	112	92	102	104
240-224503-3 MS	MW-219S-MS_051225	107	93	98	103
240-224503-3 MSD	MW-219S-MSD_051225	110	92	98	102
240-224503-4	MW-33_051225	114	87	99	103
240-224503-7	MW-47_051225	113	92	101	102
240-224503-8	MW-70_051225	111	91	100	106
240-224503-9	DUP-05	113	89	99	108
LCS 240-656448/4	Lab Control Sample	103	89	96	100
MB 240-656448/7	Method Blank	106	87	102	102

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)			
240-224503-2	MW-24_051225	77			
240-224503-3	MW-219S_051225	80			
240-224503-3 MS	MW-219S-MS_051225	81			
240-224503-3 MSD	MW-219S-MSD_051225	81			
240-224503-4	MW-33_051225	79			
240-224503-7	MW-47_051225	78			
240-224503-8	MW-70_051225	80			
240-224503-9	DUP-05	78			
LCS 240-656415/5	Lab Control Sample	80			
MB 240-656415/7	Method Blank	79			

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-224503-1

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

Lab Sample ID: MB 240-656448/7

Matrix: Water

Analysis Batch: 656448

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			05/18/25 13:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/25 13:34	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 13:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/25 13:34	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/25 13:34	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/25 13:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137		05/18/25 13:34	1
4-Bromofluorobenzene (Surr)	87		56 - 136		05/18/25 13:34	1
Toluene-d8 (Surr)	102		78 - 122		05/18/25 13:34	1
Dibromofluoromethane (Surr)	102		73 - 120		05/18/25 13:34	1

Lab Sample ID: LCS 240-656448/4

Matrix: Water

Analysis Batch: 656448

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	23.6		ug/L		95	63 - 134
cis-1,2-Dichloroethene	25.0	22.8		ug/L		91	77 - 123
Tetrachloroethene	25.0	25.5		ug/L		102	76 - 123
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	75 - 124
Trichloroethene	25.0	24.0		ug/L		96	70 - 122
Vinyl chloride	12.5	10.8		ug/L		86	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	89		56 - 136
Toluene-d8 (Surr)	96		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

Lab Sample ID: 240-224503-3 MS

Matrix: Water

Analysis Batch: 656448

Client Sample ID: MW-219S-MS_051225

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	21.0		ug/L		84	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	21.3		ug/L		85	66 - 128
Tetrachloroethene	1.0	U	25.0	22.6		ug/L		91	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	21.3		ug/L		85	56 - 136
Trichloroethene	1.0	U	25.0	21.8		ug/L		87	61 - 124
Vinyl chloride	1.0	U	12.5	8.98		ug/L		72	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		62 - 137
4-Bromofluorobenzene (Surr)	93		56 - 136
Toluene-d8 (Surr)	98		78 - 122

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-224503-1

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

Lab Sample ID: 240-224503-3 MS

Matrix: Water

Analysis Batch: 656448

Client Sample ID: MW-219S-MS_051225

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	103		73 - 120

Lab Sample ID: 240-224503-3 MSD

Matrix: Water

Analysis Batch: 656448

Client Sample ID: MW-219S-MSD_051225

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	24.2		ug/L		97	56 - 135	14	26
cis-1,2-Dichloroethene	1.0	U	25.0	23.3		ug/L		93	66 - 128	9	14
Tetrachloroethene	1.0	U	25.0	24.5		ug/L		98	62 - 131	8	20
trans-1,2-Dichloroethene	1.0	U	25.0	22.9		ug/L		92	56 - 136	7	15
Trichloroethene	1.0	U	25.0	22.5		ug/L		90	61 - 124	3	15
Vinyl chloride	1.0	U	12.5	10.7		ug/L		85	43 - 157	17	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		62 - 137
4-Bromofluorobenzene (Surr)	92		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

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

Lab Sample ID: MB 240-656415/7

Matrix: Water

Analysis Batch: 656415

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			05/17/25 10:51	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)	79		68 - 127		05/17/25 10:51	1			

Lab Sample ID: LCS 240-656415/5

Matrix: Water

Analysis Batch: 656415

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	8.33		ug/L		83	75 - 121

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		68 - 127

Lab Sample ID: 240-224503-3 MS

Matrix: Water

Analysis Batch: 656415

Client Sample ID: MW-219S-MS_051225

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	9.51		ug/L		95	20 - 180

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QC Sample Results

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

Job ID: 240-224503-1

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

		MS	MS								
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	81		68 - 127								
Lab Sample ID: 240-224503-3 MSD				Client Sample ID: MW-219S-MSD_051225							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 656415											
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	9.78		ug/L		98	20 - 180	3	20
		MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	81		68 - 127								

QC Association Summary

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

Job ID: 240-224503-1

GC/MS VOA

Analysis Batch: 656415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224503-2	MW-24_051225	Total/NA	Water	8260D SIM	
240-224503-3	MW-219S_051225	Total/NA	Water	8260D SIM	
240-224503-4	MW-33_051225	Total/NA	Water	8260D SIM	
240-224503-7	MW-47_051225	Total/NA	Water	8260D SIM	
240-224503-8	MW-70_051225	Total/NA	Water	8260D SIM	
240-224503-9	DUP-05	Total/NA	Water	8260D SIM	
MB 240-656415/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-656415/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-224503-3 MS	MW-219S-MS_051225	Total/NA	Water	8260D SIM	
240-224503-3 MSD	MW-219S-MSD_051225	Total/NA	Water	8260D SIM	

Analysis Batch: 656448

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224503-1	TRIP BLANK_129	Total/NA	Water	8260D	
240-224503-2	MW-24_051225	Total/NA	Water	8260D	
240-224503-3	MW-219S_051225	Total/NA	Water	8260D	
240-224503-4	MW-33_051225	Total/NA	Water	8260D	
240-224503-7	MW-47_051225	Total/NA	Water	8260D	
240-224503-8	MW-70_051225	Total/NA	Water	8260D	
240-224503-9	DUP-05	Total/NA	Water	8260D	
MB 240-656448/7	Method Blank	Total/NA	Water	8260D	
LCS 240-656448/4	Lab Control Sample	Total/NA	Water	8260D	
240-224503-3 MS	MW-219S-MS_051225	Total/NA	Water	8260D	
240-224503-3 MSD	MW-219S-MSD_051225	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-224503-1

Client Sample ID: TRIP BLANK_129

Lab Sample ID: 240-224503-1

Date Collected: 05/12/25 00:00

Matrix: Water

Date Received: 05/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	656448	LEE	EET CLE	05/18/25 16:38

Client Sample ID: MW-24_051225

Lab Sample ID: 240-224503-2

Date Collected: 05/12/25 09:40

Matrix: Water

Date Received: 05/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	656448	LEE	EET CLE	05/18/25 17:01
Total/NA	Analysis	8260D SIM		1	656415	R5XG	EET CLE	05/17/25 15:09

Client Sample ID: MW-219S_051225

Lab Sample ID: 240-224503-3

Date Collected: 05/12/25 10:45

Matrix: Water

Date Received: 05/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	656448	LEE	EET CLE	05/18/25 17:24
Total/NA	Analysis	8260D SIM		1	656415	R5XG	EET CLE	05/17/25 15:33

Client Sample ID: MW-33_051225

Lab Sample ID: 240-224503-4

Date Collected: 05/12/25 12:05

Matrix: Water

Date Received: 05/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	656448	LEE	EET CLE	05/18/25 18:33
Total/NA	Analysis	8260D SIM		1	656415	R5XG	EET CLE	05/17/25 15:56

Client Sample ID: MW-47_051225

Lab Sample ID: 240-224503-7

Date Collected: 05/12/25 13:20

Matrix: Water

Date Received: 05/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	656448	LEE	EET CLE	05/18/25 18:56
Total/NA	Analysis	8260D SIM		1	656415	R5XG	EET CLE	05/17/25 16:19

Client Sample ID: MW-70_051225

Lab Sample ID: 240-224503-8

Date Collected: 05/12/25 14:30

Matrix: Water

Date Received: 05/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		12.5	656448	LEE	EET CLE	05/18/25 19:19
Total/NA	Analysis	8260D SIM		1	656415	R5XG	EET CLE	05/17/25 16:43

Eurofins Cleveland

Lab Chronicle

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

Job ID: 240-224503-1

Client Sample ID: DUP-05
Date Collected: 05/12/25 00:00
Date Received: 05/15/25 08:00

Lab Sample ID: 240-224503-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		25	656448	LEE	EET CLE	05/18/25 19:42
Total/NA	Analysis	8260D SIM		1	656415	R5XG	EET CLE	05/17/25 17:06

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

- 1
- 2
- 3
- 4
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- 13
- 14

Accreditation/Certification Summary

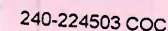
Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-224503-1

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	08-31-25
Iowa	State	421	06-01-25
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	07-03-25
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	08-31-25
Texas	NELAP	T104704517-22-19	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	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25



3110

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Client Contact			Regulatory program:						Analysis Turnaround Time		Analyses								TestAmerica Laboratories, Inc.				
Company Name: Arcadis			☐ DW ☐ NPDES ☐ RCRA ☐ Other						240-224503 COC										COC No:				
Address: 28550 Cabot Drive, Suite 500			Client Project Manager: Megan Meckley						Site Contact: Samantha Szpaichler				Lab Contact: Mike DelMonica										
City/State/Zip: Novi, MI, 48377			Telephone: 248-994-2240						Telephone: 248-994-2240				Telephone: 330-497-9396				1 of 1 COCs						
Phone: 248-994-2240			Email: megan.meckley@arcadis.com																For lab use only				
Project Name: Ford LTP			Sampler Name: <i>Mariam Hanani</i>						TAT if different from below 10 day										Walk-in client				
Project Number: 30251157.401.04			Method of Shipment/Carrier:																Lab sampling				
PO # US3460023914			Shipping/Tracking No:																Job/SDG No:				
Sample Identification			Sample Date		Sample Time		Matrix					Containers & Preservatives					Filtered Sample (Y/N)		Composite-C / Grab-G		Sample Specific Notes / Special Instructions:		
			Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc2	NH4OH	Unpres	Other:	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	
TRIP BLANK_ 129			---	---	1				1							NG	X	X	X	X	X		1 Trip Blank
MW-24_051225			5/12/25	0940	6				6							NG	X	X	X	X	X	X	3 VOAs for 8260D 3 VOAs for 8260D SIM
MW-219S_051225			5/12/25	1045	6				6							NG	X	X	X	X	X		
MW-219S-MS_051225			5/12/25	1045	6				6							NG	X	X	X	X	X	X	Run MS/MSD
MW-219S-MSD_051225			5/12/25	1045	6				6							NG	X	X	X	X	X	X	Run MS/MSD
MW-33_051225			5/12/25	1205	6				6							NG	X	X	X	X	X	X	
MW-47_051225			5/12/25	1320	6				6							NG	X	X	X	X	X	X	
MW-70_051225			5/12/25	1430	6				6							NG	X	X	X	X	X	X	
DUP-05			5/12/25	—	6				6							NG	X	X	X	X	X	X	
Possible Hazard Identification			Non-Hazard Flammable Irritant Poison B Unknown						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Client Disposal By Lab Archive For _____ Months														
Special Instructions/QC Requirements & Comments: Onsite																							
Submit all results through Cadena at jtomalia@cadenaco.com, Cadena #E203728 Level IV Reporting requested.																							
Relinquished by: <i>Mariam Hanani</i>			Company: Arcadis			Date/Time: 5/12/25 1535			Received by: Nari Cold Storage			Company: Arcadis			Date/Time: 5/12/25 1535								
Relinquished by: <i>[Signature]</i>			Company: Madco			Date/Time: 5/14/25 1652			Received by: Tully MA			Company: EETA			Date/Time: 5/14/25								
Relinquished by: <i>Tully MA</i>			Company: EETA			Date/Time: 5/14/25			Received by: [Signature]			Company: EC			Date/Time: 5/15/25 0800								

Eurofins - Cleveland Sample Receipt Form/Narrative
Barberton Facility

Login # : _____

Client Acedas

Site Name _____

Cooler unpacked by: PS

Cooler Received on 5/15/25

Opened on 5/15/25

FedEx: 1st Grd Exp UPS FAS Waypoint

Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____

Storage Location _____

Eurofins Cooler # EEC

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 # _____ (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 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 (UN), # of containers (UN), and sample type of grab/comp (UN)?

☒ Yes ☒ No

10. Were correct bottle(s) used for the test(s) indicated?

☒ Yes ☒ No

11. Sufficient quantity received to perform indicated analyses?

☒ Yes ☒ No

12. Are these work share samples and all listed on the COC?

☒ Yes ☒ No

If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt?

☒ Yes ☒ No ☒ NA pH Strip Lot# HC457151

14. Were VOAs on the COC?

☒ Yes ☒ No

15. Were air bubbles >6 mm in any VOA vials? ☒ Larger than this.

☒ Yes ☒ No ☒ NA

16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # NA

☒ Yes ☒ No

17. Was a LL Hg or Me Hg trip blank present?

☒ Yes ☒ No

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

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Labeled by: _____
 Labels Verified by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

[illegible]

5/15/2025

Login Container Summary Report

240-224503

5/20/2025

Temperature readings: _____

Client Sample ID	Lab ID	Container Type	Container	Preservation	Preservation
			pH	Temp	Added Lot Number
TRIP BLANK_129	240-224503-A-1	Voa Vial 40ml - Hydrochloric Acid			
MW-24_051225	240-224503-A-2	Voa Vial 40ml - Hydrochloric Acid			
MW-24_051225	240-224503-B-2	Voa Vial 40ml - Hydrochloric Acid			
MW-24_051225	240-224503-C-2	Voa Vial 40ml - Hydrochloric Acid			
MW-24_051225	240-224503-D-2	Voa Vial 40ml - Hydrochloric Acid			
MW-24_051225	240-224503-E-2	Voa Vial 40ml - Hydrochloric Acid			
MW-24_051225	240-224503-G-2	Voa Vial 40ml - Hydrochloric Acid			
MW-219S_051225	240-224503-A-3	Voa Vial 40ml - Hydrochloric Acid			
MW-219S-MS_051225	240-224503-A-3 MS	Voa Vial 40ml - Hydrochloric Acid			
MW-219S-MSD_051225	240-224503-A-3 MSD	Voa Vial 40ml - Hydrochloric Acid			
MW-219S_051225	240-224503-B-3	Voa Vial 40ml - Hydrochloric Acid			
MW-219S-MS_051225	240-224503-B-3 MS	Voa Vial 40ml - Hydrochloric Acid			
MW-219S-MSD_051225	240-224503-B-3 MSD	Voa Vial 40ml - Hydrochloric Acid			
MW-219S_051225	240-224503-C-3	Voa Vial 40ml - Hydrochloric Acid			
MW-219S-MS_051225	240-224503-C-3 MS	Voa Vial 40ml - Hydrochloric Acid			
MW-219S-MSD_051225	240-224503-C-3 MSD	Voa Vial 40ml - Hydrochloric Acid			
MW-219S_051225	240-224503-D-3	Voa Vial 40ml - Hydrochloric Acid			
MW-219S-MS_051225	240-224503-D-3 MS	Voa Vial 40ml - Hydrochloric Acid			
MW-219S-MSD_051225	240-224503-D-3 MSD	Voa Vial 40ml - Hydrochloric Acid			
MW-219S_051225	240-224503-E-3	Voa Vial 40ml - Hydrochloric Acid			
MW-219S-MS_051225	240-224503-E-3 MS	Voa Vial 40ml - Hydrochloric Acid			
MW-219S-MSD_051225	240-224503-E-3 MSD	Voa Vial 40ml - Hydrochloric Acid			
MW-219S_051225	240-224503-F-3	Voa Vial 40ml - Hydrochloric Acid			
MW-219S-MS_051225	240-224503-F-3 MS	Voa Vial 40ml - Hydrochloric Acid			
MW-219S-MSD_051225	240-224503-F-3 MSD	Voa Vial 40ml - Hydrochloric Acid			
MW-33_051225	240-224503-A-4	Voa Vial 40ml - Hydrochloric Acid			
MW-33_051225	240-224503-B-4	Voa Vial 40ml - Hydrochloric Acid			
MW-33_051225	240-224503-C-4	Voa Vial 40ml - Hydrochloric Acid			
MW-33_051225	240-224503-D-4	Voa Vial 40ml - Hydrochloric Acid			
MW-33_051225	240-224503-E-4	Voa Vial 40ml - Hydrochloric Acid			
MW-33_051225	240-224503-F-4	Voa Vial 40ml - Hydrochloric Acid			
MW-47_051225	240-224503-A-7	Voa Vial 40ml - Hydrochloric Acid			

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<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> pH	<u>Preservation</u> Temp	<u>Preservation</u> Added	<u>Preservation</u> Lot Number
MW-47_051225	240-224503-B-7	Voa Vial 40ml - Hydrochloric Acid	___	___	___	___
MW-47_051225	240-224503-C-7	Voa Vial 40ml - Hydrochloric Acid	___	___	___	___
MW-47_051225	240-224503-D-7	Voa Vial 40ml - Hydrochloric Acid	___	___	___	___
MW-47_051225	240-224503-E-7	Voa Vial 40ml - Hydrochloric Acid	___	___	___	___
MW-47_051225	240-224503-F-7	Voa Vial 40ml - Hydrochloric Acid	___	___	___	___
MW-70_051225	240-224503-A-8	Voa Vial 40ml - Hydrochloric Acid	___	___	___	___
MW-70_051225	240-224503-B-8	Voa Vial 40ml - Hydrochloric Acid	___	___	___	___
MW-70_051225	240-224503-C-8	Voa Vial 40ml - Hydrochloric Acid	___	___	___	___
MW-70_051225	240-224503-D-8	Voa Vial 40ml - Hydrochloric Acid	___	___	___	___
MW-70_051225	240-224503-E-8	Voa Vial 40ml - Hydrochloric Acid	___	___	___	___
MW-70_051225	240-224503-F-8	Voa Vial 40ml - Hydrochloric Acid	___	___	___	___
DUP-05	240-224503-A-9	Voa Vial 40ml - Hydrochloric Acid	___	___	___	___
DUP-05	240-224503-B-9	Voa Vial 40ml - Hydrochloric Acid	___	___	___	___
DUP-05	240-224503-C-9	Voa Vial 40ml - Hydrochloric Acid	___	___	___	___
DUP-05	240-224503-D-9	Voa Vial 40ml - Hydrochloric Acid	___	___	___	___
DUP-05	240-224503-E-9	Voa Vial 40ml - Hydrochloric Acid	___	___	___	___
DUP-05	240-224503-F-9	Voa Vial 40ml - Hydrochloric Acid	___	___	___	___

DATA VERIFICATION REPORT



May 20, 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 (vapor 301.04)

Event Specific Scope of Work References: Sample COC

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 224503-1

Sample date: 2025-05-12

Report received by CADENA: 2025-05-20

Initial Data Verification completed by CADENA: 2025-05-20

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, 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

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: 224503-1

		Sample Name: TRIP BLANK_129				MW-24_051225				MW-219S_051225				MW-33_051225				MW-47_051225				MW-70_051225				DUP-05			
		Lab Sample ID: 2402245031				2402245032				2402245033				2402245034				2402245037				2402245038				2402245039			
		Sample Date: 5/12/2025				5/12/2025				5/12/2025				5/12/2025				5/12/2025				5/12/2025				5/12/2025			
		Report		Valid	Report		Valid	Report		Valid	Report		Valid	Report		Valid	Report		Valid	Report		Valid	Report		Valid	Report		Valid	
Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC																													
OSW-8260D																													
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	13	ug/l	---	ND	25	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	---	4.8	1.0	ug/l	---	130	13	ug/l	---	140	25	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	13	ug/l	---	ND	25	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	---	0.76	1.0	ug/l	J	ND	13	ug/l	---	ND	25	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	13	ug/l	---	ND	25	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	---	3.8	1.0	ug/l	---	520	13	ug/l	---	540	25	ug/l	---
OSW-8260DSIM																													
1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---	1.3	2.0	ug/l	J	9.1	2.0	ug/l	---	9.5	2.0	ug/l	---