eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/13/2025 12:58:42 PM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-219643-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

See page two for job notes and contact information.

myEOL

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

Generated
3/13/2025 12:58:42 PM

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

Table of Contents

Definitions/Glossary

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

Job ID: 240-219643-1

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

Job Narrative
240-219643-1

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 2/28/2025 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 1.1°C and 1.6°C.

GC/MS VOA
Method 8260D: Parent, MS and MSD samples are not being reported due to parent being a foamer.
TRIP BLANK_98 (240-219643-1), MW-30_022625 (240-219643-2) and MW-34_022625 (240-219643-4)

Method 8260D: The following volatiles samples were diluted due to foaming at the time of purging during the original sample analysis: MW-31-MS_022625 (240-219643-3[MS]) and MW-31-MSD_022625 (240-219643-3[MSD]). Elevated reporting limits (RLs) are provided.

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

Method Summary

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

Job ID: 240-219643-1

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: 240-219643-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219643-1	TRIP BLANK_98	Water	02/26/25 00:00	02/28/25 08:00
240-219643-2	MW-30_022625	Water	02/26/25 12:40	02/28/25 08:00
240-219643-3	MW-31_022625	Water	02/26/25 13:40	02/28/25 08:00
240-219643-4	MW-34_022625	Water	02/26/25 11:45	02/28/25 08:00

Detection Summary

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

Job ID: 240-219643-1

Client Sample ID: TRIP BLANK_98 — Lab Sample ID: 240-219643-1

No Detections.

Client Sample ID: MW-30_022625 — Lab Sample ID: 240-219643-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	10		2.0	0.86	ug/L	1		8260D SIM	Total/NA

Client Sample ID: MW-31_022625 — Lab Sample ID: 240-219643-3

No Detections.

Client Sample ID: MW-34_022625 — Lab Sample ID: 240-219643-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	4.6		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	0.63	J	1.0	0.45	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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

Job ID: 240-219643-1

Client Sample ID: TRIP BLANK_98
Date Collected: 02/26/25 00:00
Date Received: 02/28/25 08:00

Lab Sample ID: 240-219643-1
Matrix: Water

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			03/07/25 16:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/07/25 16:51	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/07/25 16:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/07/25 16:51	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/07/25 16:51	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/07/25 16:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*62 - 137*		*03/07/25 16:51*	*1*
4-Bromofluorobenzene (Surr)	*82*		*56 - 136*		*03/07/25 16:51*	*1*
Toluene-d8 (Surr)	*88*		*78 - 122*		*03/07/25 16:51*	*1*
Dibromofluoromethane (Surr)	*110*		*73 - 120*		*03/07/25 16:51*	*1*

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

Job ID: 240-219643-1

Client Sample ID: MW-30_022625
Date Collected: 02/26/25 12:40
Date Received: 02/28/25 08:00

Lab Sample ID: 240-219643-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	10		2.0	0.86	ug/L			03/11/25 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*68 - 127*		*03/11/25 03:07*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/07/25 17:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/07/25 17:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/07/25 17:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/07/25 17:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/07/25 17:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/07/25 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*62 - 137*		*03/07/25 17:30*	*1*
4-Bromofluorobenzene (Surr)	*81*		*56 - 136*		*03/07/25 17:30*	*1*
Toluene-d8 (Surr)	*88*		*78 - 122*		*03/07/25 17:30*	*1*
Dibromofluoromethane (Surr)	*114*		*73 - 120*		*03/07/25 17:30*	*1*

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

Job ID: 240-219643-1

Client Sample ID: MW-31_022625
Date Collected: 02/26/25 13:40
Date Received: 02/28/25 08:00

Lab Sample ID: 240-219643-3
Matrix: Water

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			03/11/25 03:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*68 - 127*		*03/11/25 03:54*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	2.0	U	2.0	0.98	ug/L			03/11/25 15:27	2
cis-1,2-Dichloroethene	2.0	U	2.0	0.92	ug/L			03/11/25 15:27	2
Tetrachloroethene	2.0	U	2.0	0.88	ug/L			03/11/25 15:27	2
trans-1,2-Dichloroethene	2.0	U	2.0	1.0	ug/L			03/11/25 15:27	2
Trichloroethene	2.0	U	2.0	0.88	ug/L			03/11/25 15:27	2
Vinyl chloride	2.0	U	2.0	0.90	ug/L			03/11/25 15:27	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*62 - 137*		*03/11/25 15:27*	*2*
4-Bromofluorobenzene (Surr)	*86*		*56 - 136*		*03/11/25 15:27*	*2*
Toluene-d8 (Surr)	*95*		*78 - 122*		*03/11/25 15:27*	*2*
Dibromofluoromethane (Surr)	*110*		*73 - 120*		*03/11/25 15:27*	*2*

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

Job ID: 240-219643-1

Client Sample ID: MW-34_022625

Date Collected: 02/26/25 11:45
Date Received: 02/28/25 08:00

Lab Sample ID: 240-219643-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**4.6**		2.0	0.86	ug/L			03/11/25 03:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*68 - 127*		*03/11/25 03:30*	*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			03/11/25 15:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/11/25 15:45	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/11/25 15:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/11/25 15:45	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/11/25 15:45	1
Vinyl chloride	**0.63**	**J**	1.0	0.45	ug/L			03/11/25 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*62 - 137*		*03/11/25 15:45*	*1*
4-Bromofluorobenzene (Surr)	*83*		*56 - 136*		*03/11/25 15:45*	*1*
Toluene-d8 (Surr)	*95*		*78 - 122*		*03/11/25 15:45*	*1*
Dibromofluoromethane (Surr)	*113*		*73 - 120*		*03/11/25 15:45*	*1*

Surrogate Summary

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

Job ID: 240-219643-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-219643-1	TRIP BLANK_98	114	82	88	110
240-219643-2	MW-30_022625	117	81	88	114
240-219643-3	MW-31_022625	109	86	95	110
240-219643-3 MS	MW-31-MS_022625	89	94	89	93
240-219643-3 MSD	MW-31-MSD_022625	91	100	93	96
240-219643-4	MW-34_022625	113	83	95	113
LCS 240-647327/5	Lab Control Sample	92	102	99	91
LCS 240-647644/4	Lab Control Sample	86	101	97	92
MB 240-647327/9	Method Blank	112	84	89	109
MB 240-647644/7	Method Blank	102	90	97	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**

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(68-127)
240-219643-2	MW-30_022625	104
240-219643-3	MW-31_022625	106
240-219643-3 MS	MW-31-MS_022625	107
240-219643-3 MSD	MW-31-MSD_022625	106
240-219643-4	MW-34_022625	103
LCS 240-647554/3	Lab Control Sample	101
MB 240-647554/5	Method Blank	99

Surrogate Legend

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

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

Lab Sample ID: MB 240-647327/9
Matrix: Water
Analysis Batch: 647327

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			03/07/25 16:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/07/25 16:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/07/25 16:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/07/25 16:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/07/25 16:31	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/07/25 16:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*62 - 137*		*03/07/25 16:31*	*1*
4-Bromofluorobenzene (Surr)	*84*		*56 - 136*		*03/07/25 16:31*	*1*
Toluene-d8 (Surr)	*89*		*78 - 122*		*03/07/25 16:31*	*1*
Dibromofluoromethane (Surr)	*109*		*73 - 120*		*03/07/25 16:31*	*1*

Lab Sample ID: LCS 240-647327/5
Matrix: Water
Analysis Batch: 647327

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	22.9		ug/L		92	63 - 134
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	77 - 123
Tetrachloroethene	25.0	24.6		ug/L		98	76 - 123
trans-1,2-Dichloroethene	25.0	22.9		ug/L		92	75 - 124
Trichloroethene	25.0	24.4		ug/L		97	70 - 122
Vinyl chloride	25.0	21.9		ug/L		88	60 - 144

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*62 - 137*
4-Bromofluorobenzene (Surr)	*102*		*56 - 136*
Toluene-d8 (Surr)	*99*		*78 - 122*
Dibromofluoromethane (Surr)	*91*		*73 - 120*

Lab Sample ID: MB 240-647644/7
Matrix: Water
Analysis Batch: 647644

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			03/11/25 10:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/11/25 10:23	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/11/25 10:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/11/25 10:23	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/11/25 10:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/11/25 10:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*62 - 137*		*03/11/25 10:23*	*1*
4-Bromofluorobenzene (Surr)	*90*		*56 - 136*		*03/11/25 10:23*	*1*
Toluene-d8 (Surr)	*97*		*78 - 122*		*03/11/25 10:23*	*1*

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

Lab Sample ID: MB 240-647644/7
Matrix: Water
Analysis Batch: 647644

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	102		73 - 120		03/11/25 10:23	1

Lab Sample ID: LCS 240-647644/4
Matrix: Water
Analysis Batch: 647644

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	28.8		ug/L		115	63 - 134		
cis-1,2-Dichloroethene			25.0	27.3		ug/L		109	77 - 123		
Tetrachloroethene			25.0	22.1		ug/L		88	76 - 123		
trans-1,2-Dichloroethene			25.0	29.0		ug/L		116	75 - 124		
Trichloroethene			25.0	26.3		ug/L		105	70 - 122		
Vinyl chloride			12.5	14.4		ug/L		115	60 - 144		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

Lab Sample ID: 240-219643-3 MS
Matrix: Water
Analysis Batch: 647644

Client Sample ID: MW-31-MS_022625
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene	2.0	U	50.0	48.1		ug/L		96	56 - 135		
cis-1,2-Dichloroethene	2.0	U	50.0	51.1		ug/L		102	66 - 128		
Tetrachloroethene	2.0	U	50.0	33.9		ug/L		68	62 - 131		
trans-1,2-Dichloroethene	2.0	U	50.0	51.0		ug/L		102	56 - 136		
Trichloroethene	2.0	U	50.0	47.3		ug/L		95	61 - 124		
Vinyl chloride	2.0	U	25.0	27.0		ug/L		108	43 - 157		

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		62 - 137
4-Bromofluorobenzene (Surr)	94		56 - 136
Toluene-d8 (Surr)	89		78 - 122
Dibromofluoromethane (Surr)	93		73 - 120

Lab Sample ID: 240-219643-3 MSD
Matrix: Water
Analysis Batch: 647644

Client Sample ID: MW-31-MSD_022625
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	2.0	U	50.0	58.0		ug/L		116	56 - 135	19	26
cis-1,2-Dichloroethene	2.0	U	50.0	56.3		ug/L		113	66 - 128	10	14
Tetrachloroethene	2.0	U	50.0	40.7		ug/L		81	62 - 131	18	20
trans-1,2-Dichloroethene	2.0	U	50.0	56.2		ug/L		112	56 - 136	10	15
Trichloroethene	2.0	U	50.0	54.3		ug/L		109	61 - 124	14	15

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

Lab Sample ID: 240-219643-3 MSD
Matrix: Water
Analysis Batch: 647644

Client Sample ID: MW-31-MSD_022625
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl chloride	2.0	U	25.0	32.9		ug/L		132	43 - 157	20	24

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*62 - 137*
4-Bromofluorobenzene (Surr)	*100*		*56 - 136*
Toluene-d8 (Surr)	*93*		*78 - 122*
Dibromofluoromethane (Surr)	*96*		*73 - 120*

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

Lab Sample ID: MB 240-647554/5
Matrix: Water
Analysis Batch: 647554

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			03/10/25 23:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*68 - 127*		*03/10/25 23:59*	*1*

Lab Sample ID: LCS 240-647554/3
Matrix: Water
Analysis Batch: 647554

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			10.0	9.83		ug/L		98	75 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*68 - 127*

Lab Sample ID: 240-219643-3 MS
Matrix: Water
Analysis Batch: 647554

Client Sample ID: MW-31-MS_022625
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	11.3		ug/L		113	20 - 180		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*68 - 127*

Lab Sample ID: 240-219643-3 MSD
Matrix: Water
Analysis Batch: 647554

Client Sample ID: MW-31-MSD_022625
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	11.3		ug/L		113	20 - 180	0	20

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

Lab Sample ID: 240-219643-3 MSD
Matrix: Water
Analysis Batch: 647554

Client Sample ID: MW-31-MSD_022625
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*106*		*68 - 127*

QC Association Summary

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

Job ID: 240-219643-1

GC/MS VOA

Analysis Batch: 647327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219643-1	TRIP BLANK_98	Total/NA	Water	8260D	
240-219643-2	MW-30_022625	Total/NA	Water	8260D	
MB 240-647327/9	Method Blank	Total/NA	Water	8260D	
LCS 240-647327/5	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 647554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219643-2	MW-30_022625	Total/NA	Water	8260D SIM	
240-219643-3	MW-31_022625	Total/NA	Water	8260D SIM	
240-219643-4	MW-34_022625	Total/NA	Water	8260D SIM	
MB 240-647554/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-647554/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-219643-3 MS	MW-31-MS_022625	Total/NA	Water	8260D SIM	
240-219643-3 MSD	MW-31-MSD_022625	Total/NA	Water	8260D SIM	

Analysis Batch: 647644

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219643-3	MW-31_022625	Total/NA	Water	8260D	
240-219643-4	MW-34_022625	Total/NA	Water	8260D	
MB 240-647644/7	Method Blank	Total/NA	Water	8260D	
LCS 240-647644/4	Lab Control Sample	Total/NA	Water	8260D	
240-219643-3 MS	MW-31-MS_022625	Total/NA	Water	8260D	
240-219643-3 MSD	MW-31-MSD_022625	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-219643-1

Client Sample ID: TRIP BLANK_98

Lab Sample ID: 240-219643-1

Date Collected: 02/26/25 00:00

Matrix: Water

Date Received: 02/28/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	647327	R5XG	EET CLE	03/07/25 16:51

Client Sample ID: MW-30_022625

Lab Sample ID: 240-219643-2

Date Collected: 02/26/25 12:40

Matrix: Water

Date Received: 02/28/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	647327	R5XG	EET CLE	03/07/25 17:30
Total/NA	Analysis	8260D SIM		1	647554	R5XG	EET CLE	03/11/25 03:07

Client Sample ID: MW-31_022625

Lab Sample ID: 240-219643-3

Date Collected: 02/26/25 13:40

Matrix: Water

Date Received: 02/28/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	647644	LEE	EET CLE	03/11/25 15:27
Total/NA	Analysis	8260D SIM		1	647554	R5XG	EET CLE	03/11/25 03:54

Client Sample ID: MW-34_022625

Lab Sample ID: 240-219643-4

Date Collected: 02/26/25 11:45

Matrix: Water

Date Received: 02/28/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	647644	LEE	EET CLE	03/11/25 15:45
Total/NA	Analysis	8260D SIM		1	647554	R5XG	EET CLE	03/11/25 03:30

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: 240-219643-1

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 (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	04-01-25
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
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

MICHIGAN 190

5/12

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

TestAmerica Laboratories, Inc.

Client Contact	Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other			
Company Name: Arcadis	Client Project Manager: Megan Meckley	Site Contact: Samantha Szpaichler	Lab Contact: Mike DelMonico	COC No:
Address: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	1 of 1 COCs
City/State/Zip: Novi, MI, 48377	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	For lab use only
Phone: 248-994-2240	Sampler Name: Jeremy Myers	TAT if different from below: ☐ 3 weeks ☑ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day; 10 day		Walk-in client: Lab sampling:
Project Name: Ford LTP	Method of Shipment/Carrier:			Job/SDG No:
Project Number: 30206169.0401.03	Shipping/Tracking No:			
PO # US3460021848				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM	Sample Specific Notes / Special Instructions:
TRIP BLANK_ 98	----	---		1						1					N	G	X	X	X	X	X	X		1 Trip Blank
MW-30_022625	02/26/25	12:40		6						6					N	G	X	X	X	X	X	X	X	3 VOAs for 8260D; 3 VOAs for 8260D SIM
MW-31_022625	02/26/25	13:40		6						6					N	G	X	X	X	X	X	X	X	
MW-31-MS_022625	02/26/25	13:40		6						6					N	G	X	X	X	X	X	X	X	Run MS/MSD
MW-31-MSD_022625	02/26/25	13:40		6						6					N	G	X	X	X	X	X	X	X	Run MS/MSD
MW-34_022625	02/26/25	11:45		6						6					N	G	X	X	X	X	X	X	X	

240-219643 COC

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin 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:	Company:	Date/Time:	Received by:	Company:	Date/Time:
J. Myers	Arcadis	02/26/25 15:00	Novi Cold Storage	Arcadis	02/26/25 15:00
	ARCADIS	2/27/25 1420		EETA	2/27/25 1421
	EETA	2/27/25 1422	JESSE MOROSKO	Eurofins	2/28/25 0800

Eurofins – Cleveland Sample Receipt Form/Narrative — **Login # :**
Barberton Facility

Client ARCADIS Site Name

Cooler Received on 2/28/25 Opened on 2/28/25

Cooler unpacked by: JMOROSKO

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # EC Foam Box Client Cooler Box Other

Packing material used. Bubble Wrap Foam Plastic Bag None Other

COOLANT Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt [X] See Multiple Cooler Form

IR GUN # 13 (CF +0.0 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-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
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3 Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5 Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7 Did all bottles arrive in good condition (Unbroken)?	Yes	No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
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# HC448976
14 Were VOAs on the COC?	Yes	No
15 Were air bubbles >6 mm in any VOA vials? ● ← Larger than this	Yes	No NA
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # covered	Yes	No
17 Was a LL Hg or Me Hg trip blank present?	Yes	No

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

Contacted PM Date by via Verbal Voice Mail Other

Concerning

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

Samples processed by:

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

Login # : ____________

Eurofins - Cleveland Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: 13	1.1	1.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 13	1.6	1.6	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

2/28/2025

Login Container Summary Report

240-219643

3/13/2025

Temperature readings _____

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number
TRIP BLANK_98	240-219643-A-1	Voa Vial 40ml - Hydrochloric Acid				
MW-30_022625	240-219643-A-2	Voa Vial 40ml - Hydrochloric Acid				
MW-30_022625	240-219643-B-2	Voa Vial 40ml - Hydrochloric Acid				
MW-30_022625	240-219643-C-2	Voa Vial 40ml - Hydrochloric Acid				
MW-30_022625	240-219643-D-2	Voa Vial 40ml - Hydrochloric Acid				
MW-30_022625	240-219643-E-2	Voa Vial 40ml - Hydrochloric Acid				
MW-30_022625	240-219643-F-2	Voa Vial 40ml - Hydrochloric Acid				
MW-31_022625	240-219643-A-3	Voa Vial 40ml - Hydrochloric Acid				
MW-31_022625	240-219643-A-3 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-31_022625	240-219643-A-3 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-31_022625	240-219643-B-3	Voa Vial 40ml - Hydrochloric Acid				
MW-31_022625	240-219643-B-3 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-31_022625	240-219643-B-3 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-31_022625	240-219643-C-3	Voa Vial 40ml - Hydrochloric Acid				
MW-31_022625	240-219643-C-3 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-31_022625	240-219643-C-3 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-31_022625	240-219643-D-3	Voa Vial 40ml - Hydrochloric Acid				
MW-31_022625	240-219643-D-3 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-31_022625	240-219643-D-3 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-31_022625	240-219643-E-3	Voa Vial 40ml - Hydrochloric Acid				
MW-31_022625	240-219643-E-3 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-31_022625	240-219643-E-3 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-31_022625	240-219643-F-3	Voa Vial 40ml - Hydrochloric Acid				
MW-31_022625	240-219643-F-3 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-31_022625	240-219643-F-3 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-34_022625	240-219643-A-4	Voa Vial 40ml - Hydrochloric Acid				
MW-34_022625	240-219643-B-4	Voa Vial 40ml - Hydrochloric Acid				
MW-34_022625	240-219643-C-4	Voa Vial 40ml - Hydrochloric Acid				
MW-34_022625	240-219643-D-4	Voa Vial 40ml - Hydrochloric Acid				
MW-34_022625	240-219643-E-4	Voa Vial 40ml - Hydrochloric Acid				
MW-34_022625	240-219643-F-4	Voa Vial 40ml - Hydrochloric Acid				

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number

DATA VERIFICATION REPORT

March 14, 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) 30206169.0401.04
Event Specific Scope of Work References: Sample COC
Laboratory: Eurofins Environment Testing LLC - Cleveland
Laboratory submittal: 219643-1
Sample date: 2025-02-26
Report received by CADENA: 2025-03-14
Initial Data Verification completed by CADENA: 2025-03-14
Number of Samples:4
Sample Matrices:Water
Test Categories:GCMS VOC
Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

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 contaminates) 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 contaminates) 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: 219643-1

		Sample Name:	TRIP BLANK_98				MW-30_022625				MW-31_022625				MW-34_022625			
		Lab Sample ID:	2402196431				2402196432				2402196433				2402196434			
		Sample Date:	2/26/2025				2/26/2025				2/26/2025				2/26/2025			
Analyte	Cas No.		Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC																		
OSW-8260D																		
1,1-Dichloroethene	75-35-4		ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	2.0	ug/l	---	ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2		ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	2.0	ug/l	---	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4		ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	2.0	ug/l	---	ND	1.0	ug/l	---
trans-1,2-Dichloroethene	156-60-5		ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	2.0	ug/l	---	ND	1.0	ug/l	---
Trichloroethene	79-01-6		ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	2.0	ug/l	---	ND	1.0	ug/l	---
Vinyl chloride	75-01-4		ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	2.0	ug/l	---	0.63	1.0	ug/l	J
OSW-8260DSIM																		
1,4-Dioxane	123-91-1						10	2.0	ug/l	---	ND	2.0	ug/l	---	4.6	2.0	ug/l	---