

ANALYTICAL REPORT

PREPARED FOR

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Generated 5/15/2025 7:35:06 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-223931-1

Eurofins Cleveland

Job Notes

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Authorization



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Definitions/Glossary

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

Job ID: 240-223931-1

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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: 240-223931-1

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Job Narrative 240-223931-1

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 5/8/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.5°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-655702 was outside the method criteria for the following analyte(s): 1,1-Dichloroethene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 240-655702.

Method 8260D: No MS/MSD due to reanalysis of parent sample and MS/MSD.

TRIP BLANK_56 (240-223931-1)

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: 240-223931-1

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: 240-223931-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-223931-1	TRIP BLANK_56	Water	05/05/25 00:00	05/08/25 08:00
240-223931-2	MW-79SR_050525	Water	05/05/25 10:05	05/08/25 08:00
240-223931-3	MW-79D_050525	Water	05/05/25 10:55	05/08/25 08:00
240-223931-4	MW-141S_050525	Water	05/05/25 12:05	05/08/25 08:00
240-223931-5	DUP-10	Water	05/05/25 00:00	05/08/25 08:00

Detection Summary

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

Job ID: 240-223931-1

Client Sample ID: TRIP BLANK_56

Lab Sample ID: 240-223931-1

No Detections.

Client Sample ID: MW-79SR_050525

Lab Sample ID: 240-223931-2

No Detections.

Client Sample ID: MW-79D_050525

Lab Sample ID: 240-223931-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.5		1.0	0.45	ug/L	1		8260D	Total/NA

Client Sample ID: MW-141S_050525

Lab Sample ID: 240-223931-4

No Detections.

Client Sample ID: DUP-10

Lab Sample ID: 240-223931-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.6		1.0	0.45	ug/L	1		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: 240-223931-1

Client Sample ID: TRIP BLANK_56

Lab Sample ID: 240-223931-1

Date Collected: 05/05/25 00:00

Matrix: Water

Date Received: 05/08/25 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/13/25 14:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/13/25 14:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 14:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/25 14:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 14:46	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/13/25 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		62 - 137		05/13/25 14:46	1
4-Bromofluorobenzene (Surr)	98		56 - 136		05/13/25 14:46	1
Toluene-d8 (Surr)	92		78 - 122		05/13/25 14:46	1
Dibromofluoromethane (Surr)	100		73 - 120		05/13/25 14:46	1

Client Sample Results

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

Job ID: 240-223931-1

Client Sample ID: MW-79SR_050525

Lab Sample ID: 240-223931-2

Date Collected: 05/05/25 10:05

Matrix: Water

Date Received: 05/08/25 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/09/25 19:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		68 - 127					05/09/25 19:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/13/25 04:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/13/25 04:39	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 04:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/25 04:39	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 04:39	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/13/25 04:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		62 - 137					05/13/25 04:39	1
4-Bromofluorobenzene (Surr)	103		56 - 136					05/13/25 04:39	1
Toluene-d8 (Surr)	92		78 - 122					05/13/25 04:39	1
Dibromofluoromethane (Surr)	107		73 - 120					05/13/25 04:39	1

Client Sample Results

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

Job ID: 240-223931-1

Client Sample ID: MW-79D_050525

Lab Sample ID: 240-223931-3

Date Collected: 05/05/25 10:55

Matrix: Water

Date Received: 05/08/25 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/09/25 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		68 - 127					05/09/25 20:03	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			05/13/25 05:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/13/25 05:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 05:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/25 05:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 05:05	1
Vinyl chloride	1.5		1.0	0.45	ug/L			05/13/25 05:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		62 - 137					05/13/25 05:05	1
4-Bromofluorobenzene (Surr)	103		56 - 136					05/13/25 05:05	1
Toluene-d8 (Surr)	95		78 - 122					05/13/25 05:05	1
Dibromofluoromethane (Surr)	103		73 - 120					05/13/25 05:05	1

Client Sample Results

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

Job ID: 240-223931-1

Client Sample ID: MW-141S_050525

Lab Sample ID: 240-223931-4

Date Collected: 05/05/25 12:05

Matrix: Water

Date Received: 05/08/25 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/09/25 20:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		68 - 127					05/09/25 20:26	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			05/13/25 05:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/13/25 05:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 05:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/25 05:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 05:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/13/25 05:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		62 - 137					05/13/25 05:30	1
4-Bromofluorobenzene (Surr)	104		56 - 136					05/13/25 05:30	1
Toluene-d8 (Surr)	93		78 - 122					05/13/25 05:30	1
Dibromofluoromethane (Surr)	110		73 - 120					05/13/25 05:30	1

Client Sample Results

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

Job ID: 240-223931-1

Client Sample ID: DUP-10

Lab Sample ID: 240-223931-5

Date Collected: 05/05/25 00:00

Matrix: Water

Date Received: 05/08/25 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/09/25 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		68 - 127					05/09/25 20:50	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			05/13/25 07:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/13/25 07:02	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 07:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/25 07:02	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 07:02	1
Vinyl chloride	1.6		1.0	0.45	ug/L			05/13/25 07:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		62 - 137					05/13/25 07:02	1
4-Bromofluorobenzene (Surr)	107		56 - 136					05/13/25 07:02	1
Toluene-d8 (Surr)	97		78 - 122					05/13/25 07:02	1
Dibromofluoromethane (Surr)	108		73 - 120					05/13/25 07:02	1

Surrogate Summary

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

Job ID: 240-223931-1

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)
240-223931-1	TRIP BLANK_56	116	98	92	100
240-223931-2	MW-79SR_050525	120	103	92	107
240-223931-3	MW-79D_050525	119	103	95	103
240-223931-4	MW-141S_050525	120	104	93	110
240-223931-5	DUP-10	119	107	97	108
LCS 240-655702/2	Lab Control Sample	113	104	101	97
LCS 240-655773/5	Lab Control Sample	118	104	95	104
LCSD 240-655702/3	Lab Control Sample Dup	112	107	100	98
MB 240-655702/6	Method Blank	117	103	94	103
MB 240-655773/10	Method Blank	118	103	92	104
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)			
240-223510-B-2 MS	Matrix Spike	85			
240-223510-E-2 MSD	Matrix Spike Duplicate	84			
240-223931-2	MW-79SR_050525	80			
240-223931-3	MW-79D_050525	85			
240-223931-4	MW-141S_050525	87			
240-223931-5	DUP-10	87			
LCS 240-655458/4	Lab Control Sample	86			
MB 240-655458/6	Method Blank	88			
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					

QC Sample Results

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

Job ID: 240-223931-1

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

Lab Sample ID: MB 240-655702/6

Matrix: Water

Analysis Batch: 655702

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			05/12/25 23:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/12/25 23:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/12/25 23:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/12/25 23:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/12/25 23:55	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/12/25 23:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		62 - 137		05/12/25 23:55	1
4-Bromofluorobenzene (Surr)	103		56 - 136		05/12/25 23:55	1
Toluene-d8 (Surr)	94		78 - 122		05/12/25 23:55	1
Dibromofluoromethane (Surr)	103		73 - 120		05/12/25 23:55	1

Lab Sample ID: LCS 240-655702/2

Matrix: Water

Analysis Batch: 655702

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	20.0	16.5		ug/L		82	63 - 134
cis-1,2-Dichloroethene	20.0	16.6		ug/L		83	77 - 123
Tetrachloroethene	20.0	19.3		ug/L		96	76 - 123
trans-1,2-Dichloroethene	20.0	17.4		ug/L		87	75 - 124
Trichloroethene	20.0	19.4		ug/L		97	70 - 122
Vinyl chloride	20.0	14.8		ug/L		74	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		62 - 137
4-Bromofluorobenzene (Surr)	104		56 - 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: LCSD 240-655702/3

Matrix: Water

Analysis Batch: 655702

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	20.0	16.3		ug/L		81	63 - 134	1	35
cis-1,2-Dichloroethene	20.0	17.2		ug/L		86	77 - 123	3	35
Tetrachloroethene	20.0	18.4		ug/L		92	76 - 123	5	35
trans-1,2-Dichloroethene	20.0	16.9		ug/L		85	75 - 124	3	35
Trichloroethene	20.0	19.2		ug/L		96	70 - 122	1	35
Vinyl chloride	20.0	15.3		ug/L		77	60 - 144	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		62 - 137
4-Bromofluorobenzene (Surr)	107		56 - 136
Toluene-d8 (Surr)	100		78 - 122

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QC Sample Results

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

Job ID: 240-223931-1

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

Lab Sample ID: LCSD 240-655702/3

Matrix: Water

Analysis Batch: 655702

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	98		73 - 120

Lab Sample ID: MB 240-655773/10

Matrix: Water

Analysis Batch: 655773

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/13/25 13:03	1	
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/13/25 13:03	1	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 13:03	1	
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/25 13:03	1	
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 13:03	1	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/13/25 13:03	1	

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1,2-Dichloroethane-d4 (Surr)	118		62 - 137		05/13/25 13:03	1				
4-Bromofluorobenzene (Surr)	103		56 - 136		05/13/25 13:03	1				
Toluene-d8 (Surr)	92		78 - 122		05/13/25 13:03	1				
Dibromofluoromethane (Surr)	104		73 - 120		05/13/25 13:03	1				

Lab Sample ID: LCS 240-655773/5

Matrix: Water

Analysis Batch: 655773

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS						%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
1,1-Dichloroethene	20.0	17.3		ug/L		86	63 - 134			
cis-1,2-Dichloroethene	20.0	17.7		ug/L		89	77 - 123			
Tetrachloroethene	20.0	17.5		ug/L		88	76 - 123			
trans-1,2-Dichloroethene	20.0	17.7		ug/L		89	75 - 124			
Trichloroethene	20.0	18.0		ug/L		90	70 - 122			
Vinyl chloride	20.0	16.5		ug/L		83	60 - 144			

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	118		62 - 137
4-Bromofluorobenzene (Surr)	104		56 - 136
Toluene-d8 (Surr)	95		78 - 122
Dibromofluoromethane (Surr)	104		73 - 120

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

Lab Sample ID: MB 240-655458/6

Matrix: Water

Analysis Batch: 655458

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/09/25 14:11	1	

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-223931-1

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

Lab Sample ID: MB 240-655458/6

Matrix: Water

Analysis Batch: 655458

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1,2-Dichloroethane-d4 (Surr)	88		68 - 127		05/09/25 14:11	1				

Lab Sample ID: LCS 240-655458/4

Matrix: Water

Analysis Batch: 655458

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane			10.0	8.70		ug/L		87	75 - 121	
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	86		68 - 127							

Lab Sample ID: 240-223510-B-2 MS

Matrix: Water

Analysis Batch: 655458

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	9.37		ug/L		94	20 - 180	
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	85		68 - 127							

Lab Sample ID: 240-223510-E-2 MSD

Matrix: Water

Analysis Batch: 655458

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
1,4-Dioxane	2.0	U	10.0	9.27		ug/L		93	20 - 180	1	20	
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	84		68 - 127									

QC Association Summary

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

Job ID: 240-223931-1

GC/MS VOA

Analysis Batch: 655458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223931-2	MW-79SR_050525	Total/NA	Water	8260D SIM	
240-223931-3	MW-79D_050525	Total/NA	Water	8260D SIM	
240-223931-4	MW-141S_050525	Total/NA	Water	8260D SIM	
240-223931-5	DUP-10	Total/NA	Water	8260D SIM	
MB 240-655458/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-655458/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-223510-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-223510-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 655702

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223931-2	MW-79SR_050525	Total/NA	Water	8260D	
240-223931-3	MW-79D_050525	Total/NA	Water	8260D	
240-223931-4	MW-141S_050525	Total/NA	Water	8260D	
240-223931-5	DUP-10	Total/NA	Water	8260D	
MB 240-655702/6	Method Blank	Total/NA	Water	8260D	
LCS 240-655702/2	Lab Control Sample	Total/NA	Water	8260D	
LCSD 240-655702/3	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 655773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223931-1	TRIP BLANK_56	Total/NA	Water	8260D	
MB 240-655773/10	Method Blank	Total/NA	Water	8260D	
LCS 240-655773/5	Lab Control Sample	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-223931-1

Client Sample ID: TRIP BLANK_56

Lab Sample ID: 240-223931-1

Date Collected: 05/05/25 00:00

Matrix: Water

Date Received: 05/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	655773	AJS	EET CLE	05/13/25 14:46

Client Sample ID: MW-79SR_050525

Lab Sample ID: 240-223931-2

Date Collected: 05/05/25 10:05

Matrix: Water

Date Received: 05/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	655702	AJS	EET CLE	05/13/25 04:39
Total/NA	Analysis	8260D SIM		1	655458	R5XG	EET CLE	05/09/25 19:39

Client Sample ID: MW-79D_050525

Lab Sample ID: 240-223931-3

Date Collected: 05/05/25 10:55

Matrix: Water

Date Received: 05/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	655702	AJS	EET CLE	05/13/25 05:05
Total/NA	Analysis	8260D SIM		1	655458	R5XG	EET CLE	05/09/25 20:03

Client Sample ID: MW-141S_050525

Lab Sample ID: 240-223931-4

Date Collected: 05/05/25 12:05

Matrix: Water

Date Received: 05/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	655702	AJS	EET CLE	05/13/25 05:30
Total/NA	Analysis	8260D SIM		1	655458	R5XG	EET CLE	05/09/25 20:26

Client Sample ID: DUP-10

Lab Sample ID: 240-223931-5

Date Collected: 05/05/25 00:00

Matrix: Water

Date Received: 05/08/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	655702	AJS	EET CLE	05/13/25 07:02
Total/NA	Analysis	8260D SIM		1	655458	R5XG	EET CLE	05/09/25 20:50

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: 240-223931-1

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

CHIGAN
190

Chain of Custody Record

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

9/12

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Contact		Regulatory program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other		TestAmerica Laboratories, Inc.	
Client Project Manager: Megan Meckley		Site Contact: Samantha Szpachler		Lab Contact: Mike DelMonica	
Telephone: 248-994-2240		Telephone: 248-994-2240		Telephone: 330-497-9396	
Email: megan.meckley@arcadis.com		Analysis Turnaround Time		Analyses	
Sampler Name: <u>Jeremy Myers</u>		TAT if different from below		For lab use only	
Method of Shipment/Carrier:		10 day <input type="checkbox"/> 3 weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day <input type="checkbox"/>		Walk-in client <input type="checkbox"/>	
Shipping/Tracking No:		Containers & Preservatives		Lab sampling <input type="checkbox"/>	
Sample Identification		Sample Date		Sample Time	
Matrix		Containers & Preservatives		Job/SDG No:	
Air		Aqueous		Solid	
Other:		Other:		Other:	
Filtered Sample (Y/N)		Composite (C/Grab-G)		1,1-DCE 8260D	
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_56		---		---	
MW-795R-050525		05/05/25		10:05	
MW-79D-050525		05/05/25		10:55	
MW-1415-050525		05/05/25		12:05	
DUP-10		05/05/25		-	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months			
Special Instructions/QC Requirements & Comments: <u>Boston Post Row</u>					
Submit all results through Cadena at jtomalia@cademaco.com, Cadena #E203728					
Level IV Reporting requested.					
Relinquished by: <u>J. Myers</u>		Company: <u>Arcadis</u>		Date/Time: <u>05/05/25 15:30</u>	
Relinquished by: <u>Letta</u>		Company: <u>ARCADIS</u>		Date/Time: <u>5/7/25 1627</u>	
Relinquished by: <u>Letta</u>		Company: <u>EC</u>		Date/Time: <u>5-8-25 800</u>	



Eurofins - Cleveland Sample Receipt Form/Narrative		Login # _____
Barberton Facility		
Client <u>Alcedis</u>	Site Name _____	Cooler unpacked by <u>[Signature]</u>
Cooler Received on <u>5-8-25</u>	Opened on <u>5-8-25</u>	
FedEx 1st Grd Exp <u>UPS FAS (Waypoint)</u>	Client Drop Off <u>Waypoint</u>	Eurofins Courier <u>Other</u>
Receipt After-hours Drop-off Date/Time _____		Storage Location _____
Eurofins Cooler # <u>FC</u>	Foam Box <u>Yes</u>	Client Cooler <u>Box</u>
Packing material used <u>Bubble Wrap</u>	Foam <u>None</u>	Plastic Bag <u>None</u>
COOLANT <u>Mel Ice</u>	Blue Ice <u>None</u>	Dry Ice <u>None</u>
Water <u>None</u>		
1 Cooler temperature upon receipt <input type="checkbox"/> See Multiple Cooler Form IR GUN # <u>4813</u> (CF <u>to 0.5 °C</u>) Observed Cooler Temp <u>19</u> °C Corrected Cooler Temp <u>1.5</u> °C		
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u> Yes <u>No</u> No <u>NA</u> -Were the seals on the outside of the cooler(s) signed & dated? Yes <u>No</u> No <u>NA</u> -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes <u>No</u> No <u>NA</u> -Were tamper/custody seals intact and uncompromised? Yes <u>No</u> No <u>NA</u>		
3 Shippers' packing slip attached to the cooler(s)? Yes <u>No</u> 4 Did custody papers accompany the sample(s)? Yes <u>No</u> 5 Were the custody papers relinquished & signed in the appropriate place? Yes <u>No</u> 6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes <u>No</u> 7 Did all bottles arrive in good condition (Unbroken)? Yes <u>No</u> 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes <u>No</u> 9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes <u>No</u> 10 Were correct bottle(s) used for the test(s) indicated? Yes <u>No</u> 11 Sufficient quantity received to perform indicated analyses? Yes <u>No</u> 12 Are these work share samples and all listed on the COC? Yes <u>No</u> 13 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 <u>No</u> pH Strip Lot# <u>HC457151</u> 14 Were VOAs on the COC? Yes <u>No</u> 15 Were air bubbles >6 mm in any VOA vials? Yes <u>No</u> NA 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ 17 Was a LL Hg or Me Hg trip blank present? Yes <u>No</u>		
Contacted PM _____ Date _____ by _____ via <u>Verbal</u> Voice Mail Other _____ Concerning _____		

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

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES <input type="checkbox"/> additional next page		Labeled by <u>[Signature]</u>
		Labels Verified by <u>PSM</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. _____		

Temperature readings

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container pH</u>	<u>Preservation Temp</u>	<u>Preservation Added</u>	<u>Preservation Lot Number</u>
TRIP BLANK_56	240-223931-A-1	Voa Vial 40ml - Hydrochloric Acid				
MW-79SR_050525	240-223931-A-2	Voa Vial 40ml - Hydrochloric Acid				
MW-79SR_050525	240-223931-B-2	Voa Vial 40ml - Hydrochloric Acid				
MW-79SR_050525	240-223931-C-2	Voa Vial 40ml - Hydrochloric Acid				
MW-79SR_050525	240-223931-D-2	Voa Vial 40ml - Hydrochloric Acid				
MW-79SR_050525	240-223931-E-2	Voa Vial 40ml - Hydrochloric Acid				
MW-79SR_050525	240-223931-F-2	Voa Vial 40ml - Hydrochloric Acid				
MW-79D_050525	240-223931-A-3	Voa Vial 40ml - Hydrochloric Acid				
MW-79D_050525	240-223931-B-3	Voa Vial 40ml - Hydrochloric Acid				
MW-79D_050525	240-223931-C-3	Voa Vial 40ml - Hydrochloric Acid				
MW-79D_050525	240-223931-D-3	Voa Vial 40ml - Hydrochloric Acid				
MW-79D_050525	240-223931-E-3	Voa Vial 40ml - Hydrochloric Acid				
MW-79D_050525	240-223931-F-3	Voa Vial 40ml - Hydrochloric Acid				
MW-141S_050525	240-223931-A-4	Voa Vial 40ml - Hydrochloric Acid				
MW-141S_050525	240-223931-B-4	Voa Vial 40ml - Hydrochloric Acid				
MW-141S_050525	240-223931-C-4	Voa Vial 40ml - Hydrochloric Acid				
MW-141S_050525	240-223931-D-4	Voa Vial 40ml - Hydrochloric Acid				
MW-141S_050525	240-223931-E-4	Voa Vial 40ml - Hydrochloric Acid				
MW-141S_050525	240-223931-F-4	Voa Vial 40ml - Hydrochloric Acid				
DUP-10	240 223931-A-5	Voa Vial 40ml - Hydrochloric Acid				
DUP-10	240-223931-B-5	Voa Vial 40ml - Hydrochloric Acid				
DUP-10	240-223931-C-5	Voa Vial 40ml - Hydrochloric Acid				
DUP-10	240-223931-D-5	Voa Vial 40ml - Hydrochloric Acid				
DUP-10	240-223931-E-5	Voa Vial 40ml - Hydrochloric Acid				
DUP-10	240-223931-F-5	Voa Vial 40ml - Hydrochloric Acid				

DATA VERIFICATION REPORT



May 15, 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: 223931-1

Sample date: 2025-05-05

Report received by CADENA: 2025-05-15

Initial Data Verification completed by CADENA: 2025-05-15

Number of Samples:5

Sample Matrices:Water

Test Categories:GCMS VOC

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

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch did not include MS/MSD recovery data due to insufficient sample volume available for spiking according to the laboratory submittal case narrative.

GCMS VOC QC batch CCV response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 223931-1

Analyte	Cas No.	Sample Name: TRIP BLANK_56				MW-79SR_050525				MW-79D_050525				MW-141S_050525				DUP-10			
		Lab Sample ID: 2402239311				2402239312				2402239313				2402239314				2402239315			
		Sample Date: 5/5/2025				5/5/2025				5/5/2025				5/5/2025				5/5/2025			
		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
GC/MS VOC																					
<u>OSW-8260D</u>																					
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	---
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	---	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	1.5	1.0	ug/l	---	ND	1.0	ug/l	---	1.6	1.0	ug/l	---
<u>OSW-8260DSIM</u>																					
1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---

Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-223931-1

CADENA Verification Report: 2025-05-15

Analyses Performed By:
Eurofins Cleveland
Barberton, Ohio

Report # 59558R
Review Level: Tier III
Project: 30251157.401.02

DATA REVIEW

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-223931-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis	
					VOC	VOC SIM
TRIP BLANK_56	240-223931-1	Water	05/05/2025		X	
MW-79SR_050525	240-223931-2	Water	05/05/2025		X	X
MW-79D_050525	240-223931-3	Water	05/05/2025		X	X
MW-141S_050525	240-223931-4	Water	05/05/2025		X	X
DUP-10	240-223931-5	Water	05/05/2025	MW-79D_050525	X	X

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of Quality Assurance or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

DATA REVIEW

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

DATA REVIEW

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable, and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial /Continuing	Compound	CCV (%D)
MW-79SR_050525 MW-79D_050525 MW-141S_050525 DUP-10	Continuing Calibration Verification %D	1,1-Dichloroethene	-20.7%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
		Detect	J
	RRF <0.01 ¹	Non-detect	R
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action

DATA REVIEW

Initial/Continuing	Criteria	Sample Result	Qualification
		Detect	
Initial Calibration	%RSD > 20% or a correlation coefficient <0.99	Non-detect	UJ
		Detect	J
	%RSD > 90%	Non-detect	R
		Detect	J
Continuing Calibration	%D >20% (increase in sensitivity)	Non-detect	UJ
		Detect	J
	%D >20% (decrease in sensitivity)	Non-detect	UJ
		Detect	J
	%D > 90% (increase/decrease in sensitivity)	Non-detect	R
		Detect	J

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-79D_050525 / DUP-10	Vinyl chloride	1.5	1.6	AC

Note:

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times/Preservation		X		X	
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X	X		
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Field Duplicate RPD		X		X	
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation


%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA REVIEW

VALIDATION PERFORMED BY: Febin J S

SIGNATURE: 

DATE: June 12, 2025

PEER REVIEW: Andrew Korycinski

DATE: June 16, 2025

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



CHIGAN
190

Chain of Custody Record

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

9/12

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Contact		Regulatory program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other		TestAmerica Laboratories, Inc.	
Client Project Manager: Megan Meckley		Site Contact: Samantha Szpachler		Lab Contact: Mike DelMonica	
Telephone: 248-994-2240		Telephone: 248-994-2240		Telephone: 330-497-9396	
Email: megan.meckley@arcadis.com		Analysis Turnaround Time		Analyses	
Sampler Name: <u>Jeremy Myers</u>		TAT if different from below		For lab use only	
Method of Shipment/Carrier:		10 day <input type="checkbox"/> 3 weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day <input type="checkbox"/>		Walk-in client <input type="checkbox"/>	
Shipping/Tracking No:		Containers & Preservatives		Lab sampling <input type="checkbox"/>	
Sample Identification		Sample Date		Sample Time	
Matrix		Containers & Preservatives		Job/SDG No:	
Air		Aqueous		Solid	
Other:		Other:		Other:	
Filtered Sample (Y/N)		Composite-C/Grab-G		Sample Specific Notes / Special Instructions:	
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_56		---		---	
MW-795R-050525		05/05/25		10:05	
MW-79D-050525		05/05/25		10:55	
MW-1415-050525		05/05/25		12:05	
DUP-10		05/05/25		-	
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months			
Special Instructions/QC Requirements & Comments: <u>Boston Post Row</u>					
Submit all results through Cadena at jtomalia@cademaco.com, Cadena #E203728					
Level IV Reporting requested.					
Relinquished by: <u>J. Myers</u>		Company: <u>Arcadis</u>		Date/Time: <u>05/05/25 15:30</u>	
Relinquished by: <u>Letitia</u>		Company: <u>ARCADIS</u>		Date/Time: <u>5/7/25 1627</u>	
Relinquished by: <u>Letitia</u>		Company: <u>ETA</u>		Date/Time: <u>5/7/25 1627</u>	
Received by: <u>Nani Colod Stran</u>		Company: <u>Arcadis</u>		Date/Time: <u>05/05/25 15:30</u>	
Received by: <u>Letitia</u>		Company: <u>ETA</u>		Date/Time: <u>5/7/25 1627</u>	
Received in Laboratory by: <u>Letitia</u>		Company: <u>ETA</u>		Date/Time: <u>5-8-25 800</u>	



Definitions/Glossary

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

Job ID: 240-223931-1

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	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

Client Sample Results

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

Job ID: 240-223931-1

Client Sample ID: TRIP BLANK_56

Lab Sample ID: 240-223931-1

Date Collected: 05/05/25 00:00

Matrix: Water

Date Received: 05/08/25 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/13/25 14:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/13/25 14:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 14:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/25 14:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 14:46	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/13/25 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		62 - 137		05/13/25 14:46	1
4-Bromofluorobenzene (Surr)	98		56 - 136		05/13/25 14:46	1
Toluene-d8 (Surr)	92		78 - 122		05/13/25 14:46	1
Dibromofluoromethane (Surr)	100		73 - 120		05/13/25 14:46	1

Client Sample Results

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

Job ID: 240-223931-1

Client Sample ID: MW-79SR_050525

Lab Sample ID: 240-223931-2

Date Collected: 05/05/25 10:05

Matrix: Water

Date Received: 05/08/25 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/09/25 19:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		68 - 127					05/09/25 19:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/13/25 04:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/13/25 04:39	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 04:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/25 04:39	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 04:39	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/13/25 04:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		62 - 137					05/13/25 04:39	1
4-Bromofluorobenzene (Surr)	103		56 - 136					05/13/25 04:39	1
Toluene-d8 (Surr)	92		78 - 122					05/13/25 04:39	1
Dibromofluoromethane (Surr)	107		73 - 120					05/13/25 04:39	1

Client Sample Results

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

Job ID: 240-223931-1

Client Sample ID: MW-79D_050525

Lab Sample ID: 240-223931-3

Date Collected: 05/05/25 10:55

Matrix: Water

Date Received: 05/08/25 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/09/25 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		68 - 127					05/09/25 20:03	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			05/13/25 05:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/13/25 05:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 05:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/25 05:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 05:05	1
Vinyl chloride	1.5		1.0	0.45	ug/L			05/13/25 05:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		62 - 137					05/13/25 05:05	1
4-Bromofluorobenzene (Surr)	103		56 - 136					05/13/25 05:05	1
Toluene-d8 (Surr)	95		78 - 122					05/13/25 05:05	1
Dibromofluoromethane (Surr)	103		73 - 120					05/13/25 05:05	1

Client Sample Results

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

Job ID: 240-223931-1

Client Sample ID: MW-141S_050525

Lab Sample ID: 240-223931-4

Date Collected: 05/05/25 12:05

Matrix: Water

Date Received: 05/08/25 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/09/25 20:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		68 - 127					05/09/25 20:26	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	UJ	1.0	0.49	ug/L			05/13/25 05:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/13/25 05:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 05:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/25 05:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 05:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/13/25 05:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		62 - 137					05/13/25 05:30	1
4-Bromofluorobenzene (Surr)	104		56 - 136					05/13/25 05:30	1
Toluene-d8 (Surr)	93		78 - 122					05/13/25 05:30	1
Dibromofluoromethane (Surr)	110		73 - 120					05/13/25 05:30	1

Client Sample Results

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

Job ID: 240-223931-1

Client Sample ID: DUP-10

Lab Sample ID: 240-223931-5

Date Collected: 05/05/25 00:00

Matrix: Water

Date Received: 05/08/25 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/09/25 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		68 - 127					05/09/25 20:50	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			05/13/25 07:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/13/25 07:02	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 07:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/13/25 07:02	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/13/25 07:02	1
Vinyl chloride	1.6		1.0	0.45	ug/L			05/13/25 07:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		62 - 137					05/13/25 07:02	1
4-Bromofluorobenzene (Surr)	107		56 - 136					05/13/25 07:02	1
Toluene-d8 (Surr)	97		78 - 122					05/13/25 07:02	1
Dibromofluoromethane (Surr)	108		73 - 120					05/13/25 07:02	1