

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 11/24/2023 6:59:55 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-195201-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Cleveland

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

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Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	16
Lab Chronicle	17
Certification Summary	18
Chain of Custody	19

Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	
Glossary		5
Abbreviation	These commonly used abbreviations may or may not be present in this report.	6
¤	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	0
CNF	Contains No Free Liquid	Ŏ
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	9
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)	13
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 ID: 240-195201-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-195201-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample 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 11/10/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.7°C and 2.9°C

GC/MS VOA

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

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site

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

Protocol References:

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

Laboratory References:

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

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Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-195201-1	TRIP BLANK_31	Water	11/07/23 00:00	11/10/23 08:00
240-195201-2	MW-81_110723	Water	11/07/23 10:40	11/10/23 08:00

Detection Summary

Job ID: 240-195201-1

Lab Sample ID: 240-195201-1

Lab Sample ID: 240-195201-2

Project/Site: Ford LTP - Off Site Client Sample ID: TRIP BLANK_31

Client: ARCADIS US Inc

No Detections.

Client Sample ID: MW-81_110723

No Detections.

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Client Sample ID: TRIP BLANK_31

Date Collected: 11/07/23 00:00 Date Received: 11/10/23 08:00

	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/16/23 17:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/23 17:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/23 17:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/23 17:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/23 17:05	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/23 17:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137			-		11/16/23 17:05	1
4-Bromofluorobenzene (Surr)	95		56 - 136					11/16/23 17:05	1
Toluene-d8 (Surr)	102		78 - 122					11/16/23 17:05	1
Dibromofluoromethane (Surr)	96		73 - 120					11/16/23 17:05	1

Job ID: 240-195201-1

Lab Sample ID: 240-195201-1

Matrix: Water

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8 9

Eurofins Cleveland

Client Sample ID: MW-81_110723

Date Collected: 11/07/23 10:40 Date Received: 11/10/23 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/21/23 10:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 120			-		11/21/23 10:38	1
Method: SW846 8260D - Volati	ile Organic Comr	ounds by (GC/MS						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/16/23 06:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/23 06:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/23 06:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/23 06:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/23 06:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/23 06:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137			-		11/16/23 06:42	1
4-Bromofluorobenzene (Surr)	96		56 _ 136					11/16/23 06:42	1
Toluene-d8 (Surr)	98		78 - 122					11/16/23 06:42	1
Dibromofluoromethane (Surr)	96		73 - 120					11/16/23 06:42	1

11/24/2023

Lab Sample ID: 240-195201-2 Matrix: Water

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

Percent Surrogate Recovery (Acceptance Limits) DCA BFB TOL DBFM Client Sample ID (62-137) (56-136) (78-122) (73-120) Lab Sample ID 240-195201-1 TRIP BLANK_31 95 96 95 102 240-195201-2 MW-81_110723 97 96 98 96 240-195201-2 MS MW-81-MS_110723 93 102 102 95 240-195201-2 MSD MW-81-MSD_110723 93 95 101 105 240-195206-D-2 MS Matrix Spike 93 103 105 96 240-195206-I-2 MSD Matrix Spike Duplicate 92 99 106 96 LCS 240-594741/5 Lab Control Sample 94 102 105 97 LCS 240-594812/5 90 100 Lab Control Sample 101 94 MB 240-594741/9 Method Blank 93 93 102 95 MB 240-594812/9 Method Blank 93 98 103 94 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

=			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-195201-2	MW-81_110723	99	
240-195201-2 MS	MW-81-MS_110723	104	
240-195201-2 MSD	MW-81-MSD_110723	103	
LCS 240-595348/4	Lab Control Sample	101	
MB 240-595348/6	Method Blank	105	

Surrogate Legend

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

Prep Type: Total/NA

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

Lab Sample ID: MB 240-594741/9

Matrix: Water Analysis Batch: 594741

MB	МВ							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1.0	U	1.0	0.49	ug/L			11/16/23 04:10	1
1.0	U	1.0	0.46	ug/L			11/16/23 04:10	1
1.0	U	1.0	0.44	ug/L			11/16/23 04:10	1
1.0	U	1.0	0.51	ug/L			11/16/23 04:10	1
1.0	U	1.0	0.44	ug/L			11/16/23 04:10	1
1.0	U	1.0	0.45	ug/L			11/16/23 04:10	1
	Result 1.0 1.0 1.0 1.0 1.0	MB MB Result Qualifier 1.0 U 1.0 U	Result Qualifier RL 1.0 U 1.0 1.0 U 1.0	Result Qualifier RL MDL 1.0 U 1.0 0.49 1.0 U 1.0 0.46 1.0 U 1.0 0.44 1.0 U 1.0 0.51 1.0 U 1.0 0.44	Result Qualifier RL MDL Unit 1.0 U 1.0 0.49 ug/L 1.0 U 1.0 0.44 ug/L 1.0 U 1.0 0.51 ug/L 1.0 U 1.0 0.44 ug/L	Result Qualifier RL MDL Unit D 1.0 U 1.0 0.49 ug/L - 1.0 U 1.0 0.49 ug/L - 1.0 U 1.0 0.44 ug/L - 1.0 U 1.0 0.51 ug/L - 1.0 U 1.0 0.44 ug/L -	Result Qualifier RL MDL Unit D Prepared 1.0 U 1.0 0.49 ug/L ug	Result Qualifier RL MDL Unit D Prepared Analyzed 1.0 U 1.0 0.49 ug/L 11/16/23 04:10 11/16/23 04:10 1.0 U 1.0 0.46 ug/L 11/16/23 04:10 1.0 U 1.0 0.44 ug/L 11/16/23 04:10 1.0 U 1.0 0.51 ug/L 11/16/23 04:10 1.0 U 1.0 0.51 ug/L 11/16/23 04:10 1.0 U 1.0 0.51 ug/L 11/16/23 04:10 1.0 U 1.0 0.44 ug/L 11/16/23 04:10

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		62 _ 137		11/16/23 04:10	1
4-Bromofluorobenzene (Surr)	93		56 - 136		11/16/23 04:10	1
Toluene-d8 (Surr)	102		78 - 122		11/16/23 04:10	1
Dibromofluoromethane (Surr)	95		73 - 120		11/16/23 04:10	1

Lab Sample ID: LCS 240-594741/5 Matrix: Water Analysis Batch: 594741

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	19.9		ug/L		100	63 - 134	
cis-1,2-Dichloroethene	20.0	18.1		ug/L		90	77 - 123	
Tetrachloroethene	20.0	17.1		ug/L		86	76 - 123	
trans-1,2-Dichloroethene	20.0	18.8		ug/L		94	75 - 124	
Trichloroethene	20.0	18.6		ug/L		93	70 - 122	
Vinyl chloride	20.0	23.1		ug/L		116	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: 240-195201-2 MS Matrix: Water Analysis Batch: 594741

4-Bromofluorobenzene (Surr)

Toluene-d8 (Surr)

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	20.0	18.7		ug/L		93	56 - 135
cis-1,2-Dichloroethene	1.0	U	20.0	16.7		ug/L		84	66 - 128
Tetrachloroethene	1.0	U	20.0	15.7		ug/L		79	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	17.3		ug/L		87	56 - 136
Trichloroethene	1.0	U	20.0	15.6		ug/L		78	61 - 124
Vinyl chloride	1.0	U	20.0	22.4		ug/L		112	43 - 157
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	93		62 - 137						

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	Clevelanu

Job ID: 240-195201-1

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: MW-81-MS_110723

Prep Type: Total/NA

Prep Type: Total/NA

11/24/2023

56 - 136

78 - 122

201-2 MS

102

102

Trichloroethene

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

thed 9200 Valatile Or				COMAC IC										
ethod: 8260D - Volatile Org	Janic Cor	npo	unas by		ontinu	ea)								
∟ab Sample ID: 240-195201-2 MS Matrix: Water Analysis Batch: 594741	5								CI	lien	t Sampl	le ID: MW-8 Prep T	31-MS_1 ype: To	
analysis baton. ootrat														
0	MS % Basavary			1 : : #										
Surrogate	%Recovery 95	Quai	lifier	Limits 73 - 120										
				13-120										
Lab Sample ID: 240-195201-2 MS Matrix: Water	SD								Clie	ent	Sample	ID: MW-81 Prep T	-MSD_1 ype: To	
Analysis Batch: 594741														
	Sample		-	Spike		MSD						%Rec		RPD
Analyte	Result	-	lifier	Added		Qualifi	ier	Unit		<u>D</u>	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0			20.0	19.9			ug/L			100	56 - 135	7	26
cis-1,2-Dichloroethene	1.0			20.0	17.9			ug/L			90	66 - 128	7	14
Tetrachloroethene	1.0			20.0	16.5			ug/L			82	62 - 131	5	20
rans-1,2-Dichloroethene Trichloroethene	1.0 1.0			20.0 20.0	18.5 16.4			ug/L			93 82	56 - 136 61 - 124	7 5	15 15
Vinyl chloride	1.0 1.0			20.0	22.4			ug/L ug/L			82 112	61 - 124 43 - 157	5 0	24
	1.0	U		20.0	<u>۲۲.7</u>			uyıı			112	40 - 107	v	27
	MSD													
Surrogate	-	Qual	lifier	Limits										
1,2-Dichloroethane-d4 (Surr)	93			62 - 137										
4-Bromofluorobenzene (Surr)	101 105			56 - 136										
Toluene-d8 (Surr)	105													
Lab Sample ID: MB 240-594812/9	95			78 - 122 73 - 120							Client S	Sample ID: I Prep T		
Dibromofluoromethane (Surr) Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812	95		_								Client S		Method ype: To	
Lab Sample ID: MB 240-594812/s Matrix: Water Analysis Batch: 594812	95 9		MB	73 - 120			1:16					Prep T	уре: То	otal/NA
Lab Sample ID: MB 240-594812/s Matrix: Water Analysis Batch: 594812 Analyte	95 9	esult	Qualifier	73 - 120 		MDL L			<u>D</u>		Client S repared	Prep T Analyz	ype: To	Dil Fac
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene	95 9	esult 1.0	Qualifier U	73 - 120)	0.49 u	ug/L		<u>D</u>			Prep T Analyz 11/16/23 1	bype: To ed 15:23	otal/NA
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	95 9	esult 1.0 1.0	Qualifier U U	73 - 120))	0.49 u 0.46 u	ug/L ug/L		<u>D</u>			Analyz 11/16/23 1 11/16/23 1	ed 15:23	Dil Fac
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	95 9	esult 1.0 1.0 1.0	Qualifier U U U	73 - 120)))	0.49 u 0.46 u 0.44 u	ug/L ug/L ug/L		<u>D</u>			Analyz 11/16/23 1 11/16/23 1 11/16/23 1	ed 15:23 15:23 15:23	Dil Fac
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	95 9	esult 1.0 1.0 1.0	Qualifier U U U U	73 - 120)))	0.49 u 0.46 u 0.44 u 0.51 u	ug/L ug/L ug/L ug/L		<u>D</u>			Analyz 11/16/23 1 11/16/23 1	ed 15:23 15:23 15:23 15:23	Dil Fac
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Fetrachloroethene rans-1,2-Dichloroethene	95 9	esult 1.0 1.0 1.0 1.0	Qualifier U U U U U	73 - 120))))	0.49 u 0.46 u 0.44 u	ug/L ug/L ug/L ug/L ug/L		<u>D</u>			Analyz 11/16/23 1 11/16/23 1 11/16/23 1 11/16/23 1	ed 15:23 15:23 15:23 15:23 15:23 15:23	Dil Fac
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene rrans-1,2-Dichloroethene Trichloroethene	95 9	esult 1.0 1.0 1.0 1.0 1.0 1.0	Qualifier U U U U U U U	73 - 120))))	0.49 u 0.46 u 0.44 u 0.51 u 0.44 u	ug/L ug/L ug/L ug/L ug/L		<u>D</u>			Analyz 11/16/23 1 11/16/23 1 11/16/23 1 11/16/23 1 11/16/23 1	ed 15:23 15:23 15:23 15:23 15:23 15:23	Dil Fac 1 1 1 1 1
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene Trans-1,2-Dichloroethene Trichloroethene Vinyl chloride	95 9 Re	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB	Qualifier U U U U U U U MB	73 - 120))))	0.49 u 0.46 u 0.44 u 0.51 u 0.44 u	ug/L ug/L ug/L ug/L ug/L		<u>D</u>	Pr	epared	Analyz 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23	ed 15:23 15:23 15:23 15:23 15:23 15:23 15:23	Dil Fac 1 1 1 1 1 1 1 1 1
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene Triachloroethene Vinyl chloride Surrogate	95 9	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB overy	Qualifier U U U U U U U MB	73 - 120))))	0.49 u 0.46 u 0.44 u 0.51 u 0.44 u	ug/L ug/L ug/L ug/L ug/L		<u>D</u>	Pr		Analyz 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23	ed 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23	Dil Fac 1 1 1 1 1
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr)	95 9 Re	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB overy 93	Qualifier U U U U U U U MB	73 - 120 RL 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0))))	0.49 u 0.46 u 0.44 u 0.51 u 0.44 u	ug/L ug/L ug/L ug/L ug/L		<u>D</u>	Pr	epared	Analyz 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23	ed 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 ed 15:23 	Dil Fac 1 1 1 1 1 1 Dil Fac
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene Triachloroethene Vinyl chloride Surrogate	95 9 Re	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB overy	Qualifier U U U U U U U MB	73 - 120))))	0.49 u 0.46 u 0.44 u 0.51 u 0.44 u	ug/L ug/L ug/L ug/L ug/L		<u>D</u>	Pr	epared	Analyz 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23	ed 15:23 15:23 15:23 15:23 15:23 15:23 15:23 ed 15:23 15:23 15:23 15:23 15:23	Dil Fac 1 1 1 1 1 1 1 Dil Fac 1
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Fetrachloroethene rans-1,2-Dichloroethene	95 9	esult 1.0 1.0 1.0 1.0	Qualifier U U U U	73 - 120)))	0.49 u 0.46 u 0.44 u 0.51 u	ug/L ug/L ug/L ug/L		<u>D</u>			Analyz 11/16/23 1 11/16/23 1 11/16/23 1 11/16/23 1	ed 15:23 15:23 15:23 15:23	otal/N
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)	95 9 Re	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB overy 93 98	Qualifier U U U U U U U MB	73 - 120 RL 1.0 1.0 1.0 1.0 1.0 1.0 <u>Limits</u> 62 - 137 56 - 136))))	0.49 u 0.46 u 0.44 u 0.51 u 0.44 u	ug/L ug/L ug/L ug/L ug/L		<u>D</u>	Pr	epared	Analyz 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23	ed 15:23 15:23 15:23 15:23 15:23 15:23 15:23 ed 15:23 15:23 15:23 15:23 15:23	Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)	95 9 Re	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB overy 93 98 103	Qualifier U U U U U U U MB	73 - 120 RL 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0))))	0.49 u 0.46 u 0.44 u 0.51 u 0.44 u	ug/L ug/L ug/L ug/L ug/L		<u>D</u>	Pr	epared	Analyz 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23	ed 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23	Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)	95 9 Re	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB overy 93 98	Qualifier U U U U U U U MB	73 - 120 RL 1.0 1.0 1.0 1.0 1.0 1.0 <u>Limits</u> 62 - 137 56 - 136))))	0.49 u 0.46 u 0.44 u 0.51 u 0.44 u	ug/L ug/L ug/L ug/L ug/L		<u>D</u>	Pr	epared	Analyz 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23 11/16/23	ed 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23	Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: LCS 240-5948124 Matrix: Water	95 9 %Reco	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB overy 93 98 103	Qualifier U U U U U U U MB	73 - 120 RL 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0))))	0.49 u 0.46 u 0.44 u 0.51 u 0.44 u	ug/L ug/L ug/L ug/L ug/L			Pr Pr	repared	Analyz 11/16/23	ed 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23	Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr)	95 9 %Reco	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB overy 93 98 103	Qualifier U U U U U U U MB	FRL 1.0 1		0.49 u 0.46 u 0.44 u 0.51 u 0.45 u	ug/L ug/L ug/L ug/L ug/L			Pr Pr	repared	Analyz 11/16/23	ed 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23	Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: LCS 240-594812 Matrix: Water Analysis Batch: 594812	95 9 %Reco	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB overy 93 98 103	Qualifier U U U U U U U MB	73 - 120 RL 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	LCS	0.49 U 0.46 U 0.44 U 0.51 U 0.45 U 0.45 U	ug/L ug/L ug/L ug/L ug/L		Clie	Pr Pr ent	repared repared Sample	Analyz 11/16/23 YRec	ed 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23	Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: LCS 240-594812 Matrix: Water Analysis Batch: 594812	95 9 %Reco	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB overy 93 98 103	Qualifier U U U U U U U MB	Fill Fill 1.0 1.0 1.0 <td< td=""><td>LCS Result</td><td>0.49 u 0.46 u 0.44 u 0.51 u 0.45 u</td><td>ug/L ug/L ug/L ug/L ug/L</td><td>Unit</td><td>Clie</td><td>Pr Pr</td><td>repared repared Sample</td><td>Analyz 11/16/23 WRec Limits</td><td>ed 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23</td><td>Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1</td></td<>	LCS Result	0.49 u 0.46 u 0.44 u 0.51 u 0.45 u	ug/L ug/L ug/L ug/L ug/L	Unit	Clie	Pr Pr	repared repared Sample	Analyz 11/16/23 WRec Limits	ed 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23	Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: LCS 240-594812 Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene	95 9 %Reco	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB overy 93 98 103	Qualifier U U U U U U U MB	RL 1.0 1.	LCS Result 20.7	0.49 U 0.46 U 0.44 U 0.51 U 0.45 U 0.45 U	ug/L ug/L ug/L ug/L ug/L	ug/L	Clie	Pr Pr ent	repared repared Sample	Analyz 11/16/23	ed 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23	Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: LCS 240-594812 Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	95 9 %Reco	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB overy 93 98 103	Qualifier U U U U U U U MB	T3 - 120 RL 1.0 <	LCS Result 20.7 18.5	0.49 U 0.46 U 0.44 U 0.51 U 0.45 U 0.45 U	ug/L ug/L ug/L ug/L ug/L	ug/L ug/L	Clie	Pr Pr ent	repared repared Sample %Rec 104 93	Analyz 11/16/23	ed 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23	Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1
Lab Sample ID: MB 240-594812/S Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: LCS 240-594812 Matrix: Water Analysis Batch: 594812 Analyte 1,1-Dichloroethene	95 9 %Reco	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB overy 93 98 103	Qualifier U U U U U U U MB	RL 1.0 1.	LCS Result 20.7	0.49 U 0.46 U 0.44 U 0.51 U 0.45 U 0.45 U	ug/L ug/L ug/L ug/L ug/L	ug/L	Clie	Pr Pr ent	repared repared Sample	Analyz 11/16/23	ed 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23 15:23	Dil Fac 1 1 1 1 1 1 1 1 1 1 1 1 1

Eurofins Cleveland

70 - 122

92

18.4

ug/L

20.0

QC Sample Results

Job ID: 240-195201-1

10

12 13

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

Lab Sample ID: LCS 240-594 Matrix: Water	4812/5						Clien	t Sample	D: Lab Control Sample Prep Type: Total/NA
Analysis Batch: 594812			Spike	201	LCS				%Rec
Analyte			Added		Qualifier	Unit	D	%Rec	Limits
Vinyl chloride			20.0	23.2		ug/L		116	60 - 144
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	90		62 - 137						
4-Bromofluorobenzene (Surr)	100		56 _ 136						
Toluene-d8 (Surr)	101		78 - 122						
Dibromofluoromethane (Surr)	94		73 - 120						

Lab Sample ID: 240-195206-D-2 MS Matrix: Water

Analysis Batch: 594812

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	20.0	20.9		ug/L		105	56 - 135
cis-1,2-Dichloroethene	1.0	U	20.0	18.3		ug/L		92	66 - 128
Tetrachloroethene	1.0	U	20.0	19.2		ug/L		96	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	19.6		ug/L		98	56 - 136
Trichloroethene	1.0	U	20.0	17.9		ug/L		89	61 - 124
Vinyl chloride	1.0	U	20.0	23.6		ug/L		118	43 - 157

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	103		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-195206-I-2 MSD Matrix: Water

Analysis Batch: 594812

Analysis Datch. 554012											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	20.0	20.4		ug/L		102	56 - 135	2	26
cis-1,2-Dichloroethene	1.0	U	20.0	18.0		ug/L		90	66 - 128	2	14
Tetrachloroethene	1.0	U	20.0	18.9		ug/L		95	62 - 131	1	20
trans-1,2-Dichloroethene	1.0	U	20.0	19.2		ug/L		96	56 - 136	2	15
Trichloroethene	1.0	U	20.0	17.4		ug/L		87	61 - 124	3	15
Vinyl chloride	1.0	U	20.0	23.4		ug/L		117	43 - 157	1	24
	MED	MED									

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		62 _ 137
4-Bromofluorobenzene (Surr)	99		56 _ 136
Toluene-d8 (Surr)	106		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Job ID: 240-195201-1

10

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

Lab Sample ID: MB 240-5953	348/6									Client	Sample ID:	Method	Blan
Matrix: Water												ype: To	
Analysis Batch: 595348													
		мв	МВ										
Analyte	Re	esult	Qualifier	RL		MDL	Unit		D	Prepared	Analyz	ed	Dil Fa
1,4-Dioxane		2.0	U	2.0		0.86	ug/L				11/21/23	08:16	
a <i>i</i>		MB	MB							_ /			
Surrogate	%Reco	105	Qualifier	Limits 66 - 120						Prepared	Analyz 		Dil Fa
1,2-Dichloroethane-d4 (Surr)		105		00 - 120							11/21/23	08:16	
Lab Sample ID: LCS 240-595	348/4								Clier	nt Sample	e ID: Lab Co	ontrol S	ampl
Matrix: Water	0-0-								oner	it Gampi		ype: To	
Analysis Batch: 595348											i iop i	,	
				Spike	LCS	LCS					%Rec		
Analyte				Added	Result	Qual	ifier	Unit	D	%Rec	Limits		
1,4-Dioxane				10.0	9.86			ug/L		99	80 - 122		
								0					
	LCS												
Surrogate	%Recovery	Qua	lifier	Limits									
1,2-Dichloroethane-d4 (Surr)	101			66 - 120									
Lab Sample ID: 240-195201-2	2 MS								Clic	nt Samr	le ID: MW-8	1-MS 1	11072
Matrix: Water	2 1010								Cile	an Samp		ype: To	
Analysis Batch: 595348											Ticp	ypc. 10	
Analysis Datch. 555540	Sample	Sam	nle	Spike	MS	MS					%Rec		
Analyte	Result			Added	Result		ifier	Unit	D	%Rec	Limits		
1,4-Dioxane		U		10.0	9.72	duu		ug/L		97	51 - 153		
								0					
	MS	MS											
Surrogate	%Recovery	Qua	lifier	Limits									
1,2-Dichloroethane-d4 (Surr)	104			66 - 120									
Lab Samala ID: 240 405204 (Clien	t Comul			14070
Lab Sample ID: 240-195201-2									Clien	it Sample	Drom 7		
Matrix: Water											Prep	ype: To	otal/N/
Analysis Batch: 595348	Comple	6.m.	nlo	Spike	Mer	MSD					%Rec		RPI
Analyto	Sample Result		•	Spike Added	Result			Unit	D	%Rec	%Rec Limits	RPD	Limi
Analyte 1,4-Dioxane		U		10.0	10.0	Qual	mer	ug/L	<u>D</u>	100	51 - 153	3	1
1,4-DIOAdHE	2.0	0		10.0	10.0			uy/L		100	51 - 105	3	1
	MSD	MSD)										
Surrogate	%Recovery	Qua	lifior	Limits									

 1,2-Dichloroethane-d4 (Surr)
 103
 66 - 120

Eurofins Cleveland

GC/MS VOA Analysis Batch: 594741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
40-195201-2	MW-81_110723	Total/NA	Water	8260D	
MB 240-594741/9	Method Blank	Total/NA	Water	8260D	
_CS 240-594741/5	Lab Control Sample	Total/NA	Water	8260D	
240-195201-2 MS	MW-81-MS_110723	Total/NA	Water	8260D	
240-195201-2 MSD	MW-81-MSD_110723	Total/NA	Water	8260D	
nalysis Batch: 59481	2				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-195201-1	TRIP BLANK_31	Total/NA	Water	8260D	
MB 240-594812/9	Method Blank	Total/NA	Water	8260D	
LCS 240-594812/5	Lab Control Sample	Total/NA	Water	8260D	
240-195206-D-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-195206-I-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
nalysis Batch: 59534	8				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-195201-2	MW-81_110723	Total/NA	Water	8260D SIM	
MB 240-595348/6	Method Blank	Total/NA	Water	8260D SIM	
_CS 240-595348/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-195201-2 MS	MW-81-MS_110723	Total/NA	Water	8260D SIM	
240-195201-2 MSD	MW-81-MSD_110723	Total/NA	Water	8260D SIM	

Matrix: Water

Matrix: Water

Lab Sample ID: 240-195201-1

Lab Sample ID: 240-195201-2

Client Sample ID: TRIP BLANK_31 Date Collected: 11/07/23 00:00

Date	conected.	11/07/25 00.00
Date	Received:	11/10/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	594812	AJS	EET CLE	11/16/23 17:05

Client Sample ID: MW-81_110723 Date Collected: 11/07/23 10:40

Date Received: 11/10/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	594741	AJS	EET CLE	11/16/23 06:42
Total/NA	Analysis	8260D SIM		1	595348	CS	EET CLE	11/21/23 10:38

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 - Off Site

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
California	State	2927	02-27-24
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
lowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23 *
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-02-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Outer Physics Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>	Client Contact	Regulatory program:	MO J	NPDES	RCRA Other	ler				
Grant Project: fich Hubbles State Contact: Chebrian Weever And Contact: Mark PolyMation Turplemen: 134994:1210 Telephane: 134994:1210 Telephane: 134994:1210 Telephane: 134994:1210 Turplemen: 134994:1210 Telephane: 134994:1210 Telephane: 134994:1210 Telephane: 134994:1210 Turplemen: 134994:1210 Turplemen: 134994:1210 Telephane: 134994:1210 Telephane: 134994:1210 Suppregrit views Suppregrit views Turplemen: 13494:1210 Telephane: 13494:1210 Suppregrit views Suppregrit views Suppregrit views Turplemen: 13494:1210 Suppregrit views Suppregrit views Suppregrit views Telephane: 13494:1210 Suppregrit views Suppregrit views Suppregrit views Telephane: 13494:1210 Suppregrit views Suppregrit views Telephane: 12,005 E 82600 Telephane: 12,005 E 82600 Supprizerit <th>ompany Name: Arcadis</th> <th></th> <th></th> <th></th> <th>1</th> <th>_</th> <th></th> <th></th> <th>TestAmeri</th> <th>TestAmerica Laboratories. Inc.</th>	ompany Name: Arcadis				1	_			TestAmeri	TestAmerica Laboratories. Inc.
Litelpane: 244 94 2130 Terphane: 244 94 213 Terphane	ddress: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris	linskey	Site Contact: Christ	ina Weaver	Lab Col	itact: Mike II	elMonico	COC No:	
Data It Muniter Induction Autobase Transmant Tras. Suppler Value: Number of the standard s	ity/State/Zip: Novi, MI, 48377	Telephone: 248-994-2240		Telephone: 248-994-	-2240	Telepho	ne: 330-497-	396		1 0005
Sungler Num: Sungler Num: Number Num: Number Num: Number Num: Number Num Hehnut di Singlinum/Cuenci: 0.05 2 Notes	hune: 248-994-2240	Email: kristoffer.hinskey@are	adis.com	Analysis Turnar	ound Time			Analyses	For lab use only	
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11/24/2023

Eurofins - Cleveland Sample Receipt Form/Narrative Login # : K5201
Barberton Facility Client Acceler upacked by: Cooler unpacked by:
Chem Archang An- An-
Cooler Received on 11/10/23 Here Athilon
FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other
Receipt After-hours: Drop-off Date/Time Storage Location
Eurofins Cooler # 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 Site in Site in See Multiple Cooler Form
IR GUN # 22 (CF 1 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>Cc</u> <u>Yes</u> No <u>Tests that are not</u>
-Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes (No) Receiving:
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA Receiving: -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes (No) VOAs
4. Did custody papers accompany the sample(s)?
5. Were the custody papers relinquished & signed in the appropriate place? (Ver 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)?
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?
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# HC316719
14. Were VOAs on the COC?
15. Were air bubbles >6 mm in any VOA vials? Larger than this.
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # <u>NACUVER</u> No 17. Was a LL Hg or Me Hg trip blank present? Yes (No)
17. Was a LL rig of Me rig tip blank present:
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)
Sample(s)
VOA Sample Preservation - Date/Time VOAs Frozen:

Login #: 195201

Cooler I	Description	IR Gun #	Observed	Corrected	Coolent
	ircle)	(Circle)	Temp *C	Temp *C	(Circle)
EC Client	Box Other	IR GUN #; A	1.8	2.9	Wellice) Blue ice By Weller None
EC Client	Box Other	IR GUN #: 22	1.6	2.7	Weller Blue Ice By
IC Clent	Box Other	IR GUN 9:			Wellice Blue Ice By I Water Mage
EC Client	Box Other	IR GUN #:			Wellice Blue ice By in
tC Clent	Box Other	IR GUN #:			Wellice Shee Ice Byla
IC Clent	Sex Other	IR GUN #:	-		Wellice Nee Ice By Ic
SC Clent	Ben Other	IR GUN 6:			Wat ice Blue ice By it
SC Client	Ben Other	IR GUN #:			Wellice She los Bylo
BC Cleat	Bes Other	IR CUN #:			Wellice Shee hee By b
BC Cleat	Ben Other	11: CON 4:			Wettes She tes tyte
BC Clent	Bes Other	IR CON #:			Wellice Blue lee Byle
IC Cleat	Ben Other	IR GUN #:			Weller He Se Byte
BC Cleat	Ben Other	IR GUN #:			Wet the Store Mile Byter
aC Cleat	Ben Other	R GUN 4:			Wet too Shee too By to
EC Cleat	Bex Other	IR GUN #:			Wet the Stee the Byth
BC Cleat	Bex Other	R. CON #:			Wellice She Ico Syla
BC Cleat	Bex Other	IR GUN #:			Wettee She tee Byte
BC Client	Bes Other	R CUN 6:			Wellice the los Byle
IC Cleat	ben Other	R CUN #:			Welles She les Byle
IC Cleat	Sex Other	IR GUN #:			Wettee Dive tee Dyle
IC Chest	Bex Other	R CON 9:			Wet too Stee See Byte
BC Cleat	Bex Other	IR CUN 6:			Wellice Sheelice Byte
BC Cleat	Jex Ölher	R CUN #:			Wellie She tee Byte
	Ben Other	R CUN #:			Weller Mann
IC Clear	Bex Other	R CUN #:			Wefice Sive Ice Byte
IC Cleri	Bex Other	R CON &:			Weller Hele Welles Shotles Byte
ac clear		R OWI #:			Wellice Sheelice Bryte
	Box Other	IR CUN #:			Wellice Blue Ice Dyla
IC Clent	Bex Other	R CON 2:			Wetter News
IC Clent	Ben Other	IR GIM F:			Weiter Hone Weites Stretze Byte
IC Cleat		R CWI 6:			Mind tea Man fine Bryles
	Ben Ölher	R GUN #:			Wellice Blee Sey he
IC Clout		R OWI #:			Wellice She too Styles
	Box Other				Wellice Blue Sce Bry to
IC Cleal	Sex Other	IR GUN #:			Woler Hose Water Hose preture Excursion Form

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

DATA VERIFICATION REPORT



November 27, 2023

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631 Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater Project number: 30167538.402.04 off-site Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 195201-1 Sample date: 2023-11-07 Report received by CADENA: 2023-11-27 Initial Data Verification completed by CADENA: 2023-11-27 Number of Samples:2 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.

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 <u>http://clms.cadenaco.com/index.cfm</u>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	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.
Е	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: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 195201-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401952 11/7/20	_ 2011			MW-81_ 2401952 11/7/20	- 2012		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-8260</u>	<u>DD</u>									
	1,1-Dichloroethene	75-35-4	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	
	Tetrachloroethene	127-18-4	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	
	Trichloroethene	79-01-6	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	
<u>OSW-8260</u>	<u>DDSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-195201-1 CADENA Verification Report: 2023-11-27

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 52141R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-195201-1 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	Barant Sampla	Ana	lysis
Sample ID		WIGUIX	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_31	240-195201-1	Water	11/07/2023		Х	
MW-81_110723	240-195201-2	Water	11/07/2023		Х	Х

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

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.

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 HCI

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 continuing calibrations were within the specified control limits.

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.

A field duplicate sample was not collected for samples from this SDG.

DATA REVIEW

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

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	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Nequireu
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		X	
Tier III Validation		1		-	
System performance and column resolution		Х		X	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		X	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		Х		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	
Notes:					

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY:	Bindu Sree M B
SIGNATURE:	BASh_MB
DATE:	December 18, 2023

PEER REVIEW: Andrew Korycinski

DATE: December 20, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record



TestAmerica Laboratory location: Brighton --- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

Client Contact	Regula	ory program:		1	DW			PDES		R	CRA	Γ Ο	ther									
· .	Client Project	Manager: Kris	Hinske	ey		1	Site Cu	intact:	Chr	istina V	eaver			Lab	Cont	act: M	ike De	Moni	co			estAmerica_Laboratories, OC_No:
ldress: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240					Telenh	one: 2	18-9	94-2240				Tal	anhan	e: 330-	107 0	104			-	
y/State/Zip: Novi, MI, 48377														Tei	epnon	e: 330-					- F	1 of 1 COCs
one: 248-994-2240	Email: kristoft	er.hinskev@ar	cadis.c	:0M		ŀ	An	alysis '	Turi	around	Time	1				1	/	haly	ses		F	or lab use only
	Sampler Name	:					TAT if	different l													V	/alk-in client
roject Name: Ford LTP Off-Site	5	Sid	er	-			10 0	dav		3 week 2 week												
oject Number: 30167538.402.04	Method of Ship							Jay	Г	I week		20	2						Σ		L	ab sampling
) # 30167538.402.04	Shipping/Track	ing No:								2 days 1 day		Sample (Y / N)		8260D	8260D			8260D	SEOD S		J	ob/SDG No:
				Ma	atrix	-	C	ontaine	ers &	Preserva	tives	amp	8260D		DCE	0		ride	le 83			A REAL PROPERTY AND INC.
Sample Identification	Sample Date	Sample Time	Air	Aqueous Sediment	Solid	Other:	HN01	HCI	NaOH	ZaAc NaOH	Others	Filtered S		cis-1,2-DCE	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Viny! Chloride 8260D	1.4-Dioxane 8260D SIM			Sample Specific Notes / Special Instructions:
TRIP BLANK_ 3				1				1		N 2 -		N		+	+		X	X	-		+	1 Trip Blank
1W-81_110723	11/07/2023	1040		6				12			1	N1 /	bιχ		t	,	1~	t			-+	3 VOAs for 8260D
	11/07/2023		┢┼	1	+		_	W	-			ł +-		- X	X	X	λ	X	- -		-	3 VOAs for 8260D SIN
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Image: Non-Hazard Flammable Skin I ecial Instructions/QC Requirements & Comments:	rritant Poise	n B	Unkn	own			1	Retur	m to	Client	↓ D	Disposal	By Lal	b	Γ.	Archiv	e For		Months		_	
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Client Sample ID: TRIP BLANK_31

Date Collected: 11/07/23 00:00

Date Received: 11/10/23 08:00

Matheads OMOAC 0000D Malat	
wiethod: Sw846 8260D - volati	ile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/16/23 17:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/23 17:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/23 17:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/23 17:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/23 17:05	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/23 17:05	1
Surrogate	%Recoverv	Qualifier	l imits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	LIMITS	Prepared	Analyzed	DII Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137		11/16/23 17:05	1
4-Bromofluorobenzene (Surr)	95		56 - 136		11/16/23 17:05	1
Toluene-d8 (Surr)	102		78 - 122		11/16/23 17:05	1
Dibromofluoromethane (Surr)	96		73 - 120		11/16/23 17:05	1

Client Sample ID: MW-81_110723 Date Collected: 11/07/23 10:40 Date Received: 11/10/23 08:00

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Lab Sample ID: 240-195201-2

Matrix: Water

Analyte		Qualifier	ounds (GC/N RL		Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/21/23 10:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		66 - 120			-		11/21/23 10:38	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/16/23 06:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/23 06:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/23 06:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/23 06:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/23 06:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/23 06:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137			-		11/16/23 06:42	1
4-Bromofluorobenzene (Surr)	96		56 - 136					11/16/23 06:42	1

78 - 122

73 - 120

98

96

11/16/23 06:42

11/16/23 06:42

1

1

Lab Sample ID: 240-195201-1 Matrix: Water