PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 8/22/2023 7:40:24 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-189870-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 8/22/2023 7:40:24 AM

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-189870-1

Project/Site: Ford LTP - Off Site

Qualifiers
GC/MS VOA

Qualifier Qualifier Description

F2 MS/MSD RPD exceeds control limits

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

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Case Narrative

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

Job ID: 240-189870-1

Job ID: 240-189870-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-189870-1

Receipt

The samples were received on 8/10/2023 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 0.2°C and 0.4°C

GC/MS VOA

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

Method Summary

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-189870-1

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

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Sample Summary

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-189870-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-189870-1	TRIP BLANK_55	Water	08/08/23 00:00	08/10/23 08:00
240-189870-2	MW-170S_080823	Water	08/08/23 12:35	08/10/23 08:00

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-189870-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_55 Lab Sample ID: 240-189870-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-189870-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_55

Date Collected: 08/08/23 00:00 Date Received: 08/10/23 08:00 Lab Sample ID: 240-189870-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/14/23 17:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/14/23 17:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/14/23 17:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/14/23 17:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/14/23 17:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/14/23 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137					08/14/23 17:49	1
4-Bromofluorobenzene (Surr)	91		56 ₋ 136					08/14/23 17:49	1
Toluene-d8 (Surr)	92		78 - 122					08/14/23 17:49	1
Dibromofluoromethane (Surr)	109		73 - 120					08/14/23 17:49	1

Eurofins Cleveland

8/22/2023

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-189870-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-170S_080823

Date Collected: 08/08/23 12:35

Lab Sample ID: 240-189870-2 Matrix: Water

Date Received: 08/10/23 08:00

Method: SW846 8260D SIN Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/16/23 12:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		66 - 120					08/16/23 12:41	1
Method: SW846 8260D - Vo		Compound Qualifier	ds by GC/MS RL	MDL	Unit	D	Prepared	Analvzed	Dil Fac
Analyte	Result	Qualifier	RL _	MDL		<u>D</u> .	Prepared	Analyzed	Dil Fac
Analyte		Qualifier	-			<u>D</u> .	Prepared	Analyzed 08/14/23 18:13	Dil Fac
Analyte 1,1-Dichloroethene	Result	Qualifier U	RL _	MDL	ug/L	<u> </u>	Prepared		Dil Fac
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0	Qualifier U U		MDL 0.49	ug/L ug/L	<u> </u>	Prepared	08/14/23 18:13	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	1.0 1.0	Qualifier U U U	1.0 1.0	0.49 0.46 0.44	ug/L ug/L	<u>D</u> .	Prepared	08/14/23 18:13 08/14/23 18:13	Dil Fac 1 1 1 1
Method: SW846 8260D - Vo Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene	Result 1.0 1.0 1.0	Qualifier U U U U	RL 1.0 1.0 1.0	0.49 0.46 0.44	ug/L ug/L ug/L ug/L	<u> </u>	Prepared	08/14/23 18:13 08/14/23 18:13 08/14/23 18:13	Dil Fac 1 1 1 1 1 1 1

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137		08/14/23 18:13	1
4-Bromofluorobenzene (Surr)	89		56 - 136		08/14/23 18:13	1
Toluene-d8 (Surr)	90		78 - 122		08/14/23 18:13	1
Dibromofluoromethane (Surr)	110		73 - 120		08/14/23 18:13	1

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Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-189870-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surre	ogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-189870-1	TRIP BLANK_55	102	91	92	109
240-189870-2	MW-170S_080823	99	89	90	110
240-189875-B-5 MS	Matrix Spike	96	91	95	106
240-189875-B-5 MSD	Matrix Spike Duplicate	96	90	91	103
LCS 240-583793/4	Lab Control Sample	93	89	94	104
MB 240-583793/7	Method Blank	100	91	93	108

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-189870-2	MW-170S_080823	90	
240-189878-C-2 MS	Matrix Spike	95	
240-189878-C-2 MSD	Matrix Spike Duplicate	86	
LCS 240-584028/5	Lab Control Sample	96	
MB 240-584028/7	Method Blank	97	
Surrogate Legend			

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

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Client: ARCADIS US Inc Job ID: 240-189870-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-583793/7

Matrix: Water

Analysis Batch: 583793

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

MB MB Result Qualifier RL **MDL** Unit Dil Fac Analyte D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 08/14/23 13:33 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 08/14/23 13:33 1.0 U 0.44 ug/L Tetrachloroethene 1.0 08/14/23 13:33 0.51 ug/L trans-1,2-Dichloroethene 1.0 U 1.0 08/14/23 13:33 Trichloroethene 1.0 U 1.0 0.44 ug/L 08/14/23 13:33 Vinyl chloride 1.0 U 1.0 0.45 ug/L 08/14/23 13:33

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 62 - 137 100 1,2-Dichloroethane-d4 (Surr) 08/14/23 13:33 4-Bromofluorobenzene (Surr) 91 56 - 136 08/14/23 13:33 93 78 - 122 Toluene-d8 (Surr) 08/14/23 13:33 Dibromofluoromethane (Surr) 108 73 - 120 08/14/23 13:33

Lab Sample ID: LCS 240-583793/4

Matrix: Water

Analysis Batch: 583793

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits 25.0 108 63 - 134 1,1-Dichloroethene 27.1 ug/L cis-1,2-Dichloroethene 25.0 23.7 ug/L 95 77 - 123 Tetrachloroethene 25.0 27.7 ug/L 111 76 - 123 trans-1.2-Dichloroethene 25.0 24.8 ug/L 99 75 - 124 Trichloroethene 25.0 28.2 ug/L 113 70 - 122 Vinyl chloride 12.5 13.7 ug/L 110 60 - 144

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 93 62 - 137 4-Bromofluorobenzene (Surr) 89 56 - 136 Toluene-d8 (Surr) 78 - 122 94 73 - 120 Dibromofluoromethane (Surr) 104

Lab Sample ID: 240-189875-B-5 MS

Matrix: Water

Analysis Batch: 583793

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	
1,1-Dichloroethene	10	U	250	242		ug/L		97	56 - 135	
cis-1,2-Dichloroethene	36		250	267		ug/L		92	66 - 128	
Tetrachloroethene	10	U	250	255		ug/L		102	62 - 131	
trans-1,2-Dichloroethene	10	U	250	232		ug/L		93	56 - 136	
Trichloroethene	10	U	250	267		ug/L		107	61 - 124	
Vinyl chloride	240		125	381		ug/L		109	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	91		56 - 136
Toluene-d8 (Surr)	95		78 - 122

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Client: ARCADIS US Inc Job ID: 240-189870-1 Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-189875-B-5 MS

Matrix: Water

Analysis Batch: 583793

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

MS MS

%Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 106 73 - 120

Lab Sample ID: 240-189875-B-5 MSD

Matrix: Water

Analysis Batch: 583793

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Sample Sample Spike MSD MSD %Rec **RPD** Added Result Qualifier Limits RPD Limit Analyte Result Qualifier Unit %Rec Ū 1,1-Dichloroethene 10 250 256 ug/L 103 56 - 135 6 26 ug/L cis-1,2-Dichloroethene 36 250 279 97 66 - 128 14 4 Tetrachloroethene 10 U 250 258 ug/L 103 62 - 13120 trans-1.2-Dichloroethene 10 U 250 251 ug/L 100 15 56 - 136 8 Trichloroethene 10 U 250 285 ug/L 114 61 - 124 6 15 Vinyl chloride 240 125 373 ug/L 102 43 - 157 24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	90		56 - 136
Toluene-d8 (Surr)	91		78 - 122
Dibromofluoromethane (Surr)	103		73 - 120

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

Lab Sample ID: MB 240-584028/7

Matrix: Water

Analysis Batch: 584028

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB **Analyte** Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 2.0 08/16/23 10:39 1,4-Dioxane 2.0 U 0.86 ug/L MB MB

%Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 97 66 - 120 08/16/23 10:39

Lab Sample ID: LCS 240-584028/5

Analysis Batch: 584028

Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 1,4-Dioxane 10.0 9.17 ug/L 92 80 - 122

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 96

Lab Sample ID: 240-189878-C-2 MS

Matrix: Water

Analysis Batch: 584028

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U F2	10.0	10.7		ug/L		107	51 - 153	

Eurofins Cleveland

Prep Type: Total/NA

Client Sample ID: Matrix Spike

QC Sample Results

Client: ARCADIS US Inc Job ID: 240-189870-1

Project/Site: Ford LTP - Off Site

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	95		66 - 120								
Lab Sample ID: 240-1898 Matrix: Water Analysis Batch: 584028	878-C-2 MSD					Client	Samp	le ID: N	latrix Spil Prep Ty		
•	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 F2	10.0	8.71	F2	ug/L		87	51 - 153	21	16
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	86		66 - 120								

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QC Association Summary

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

Job ID: 240-189870-1

GC/MS VOA

Analysis Batch: 583793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189870-1	TRIP BLANK_55	Total/NA	Water	8260D	
240-189870-2	MW-170S_080823	Total/NA	Water	8260D	
MB 240-583793/7	Method Blank	Total/NA	Water	8260D	
LCS 240-583793/4	Lab Control Sample	Total/NA	Water	8260D	
240-189875-B-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-189875-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 584028

Lab Sample ID 240-189870-2	Client Sample ID MW-170S 080823	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-584028/7	– Method Blank	Total/NA	Water	8260D SIM	
LCS 240-584028/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-189878-C-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-189878-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-189870-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_55

Lab Sample ID: 240-189870-1 Date Collected: 08/08/23 00:00 **Matrix: Water**

Date Received: 08/10/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	583793	LEE	EET CLE	08/14/23 17:49

Client Sample ID: MW-170S_080823 Lab Sample ID: 240-189870-2

Date Collected: 08/08/23 12:35 **Matrix: Water**

Date Received: 08/10/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	583793	LEE	EET CLE	08/14/23 18:13
Total/NA	Analysis	8260D SIM		1	584028	MRL	EET CLE	08/16/23 12:41

Laboratory References:

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

Eurofins Cleveland

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-189870-1

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	08-31-23		
Virginia	NELAP	460175	09-14-23		
West Virginia DEP	State	210	12-31-23		

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Company Name Activities Control Counted Co	Test	TestAmerica Laboratory location; Brighton 10448 Citalic	10448 Citation Drive. Suite 200 / Brighton, MI 48116 / 810-229-2763	0-229-2763	TO CATALON OF WHICH SAFETY SHEET SAFETY SAFE
	Client Contact		RCRA	Jet.	
TRP BLANK 1975 Seminor the state of th	Company Name: Arcadis	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	TestAmerica Laboratories, In COC No:
The BLANK 1999 19	Address: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	
TRIP BLANK Sept. 2009 Total Control Cont	City/State/Zip: Novi, MI, 48377	1	A na busis server cared from		
Page	Phone: 248-994-2240	Email: Kristolier.ninskey(g'arcadis.com	and the second time	Alalyses	For lab use only
Proper Number National and Number	Project Name: Ford LTP Off-Site	last He	TAT if different from below 3 weeks		Walk-in client
Sample Dealer Sample D	Project Number: 30167538.402.04	3	l week	a	Lab sampling
Sample Identification Sample Index (Sample Time Associated Fig. Associated F	PU#30167538.402.04	Shipping/Tracking No:	(/ A) PI	85e0D 5e0D 5e0D	Job/SDG No:
TRIP BLANK Sample Identification Sample Date Sample Time A Agricultural Angle Sample Identification Sample Ident		Matrix	dare	DDDDCE 83	
TRIP BLANK SS	Sample Identification	Sample Time Aqueous Sediment	Elifered S Unpres Nach Nach Nach HCl	1,1-DCE 8260 Vinyl Chlo Trans-1,2 PCE 8260 Trans-1,2	Sample Specific Notes / Special Instructions:
PMA - 1705 - 08082	TRIP BLANK		Z	× × × ×	1 Trip Blank
People thand denditation The control of Con	MN-1705	8/23 1295	3	メメ	3 VOAs for 8260D 3 VOAs for 8260D SIM
Possible Hazard Identification Standard Machine Standard Machine Standard Machine Standard Machine Possible Hazard Identification Standard Machine Standard Machine Possible Hazard Identification Possible Hazard Identification Standard Machine Received by Company Compan					
Possible Hazard Identification - Van Hazard - Stan Irritant - Sta					
Date/Time: Mind Mi					
Unknown Sample Disposal (A fee may be assessed if samples are retained longer than I month) Bate/Time: Date/Time: Date/Date/Time: Date/Date/Time: Date/Date/Time: Date/Date/Time: Date/Date/Date/Date/Date/Date/Date/Date/		240-	189870 Chain of Custody		MICHIGAN
Unknown Date/Timp: Date/Timp: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Dat		2 1			961
Date/Timp: Dat	Possible Hazard Identification Non-Hazard Flammable Skin Irrita	Poison B	Sample Disposal (A fee may be assessed	If samples are retained longer than 1 month) by Lab Archive For Months	-
Lusper Company: Accept Baseline: 1842 Received by: Cold Shice, Company: Company: Baseline: Received by: Received by: Company: Company: Baseline: Baseline: Received in Laboratory by: Company: Baseline: Basel	Special Instructions/QC Requirements & Comments: Sample Address: 3499 50 Submit all results through Cadena at Nomalia@cadenaco Level IV Reporting requested.				
Date/Time: States 1305 Received by: Company: Company: Date/Time: D	Refinquished by: Rent Kuspur	Cedis BaterTing:	Received by:		22
FIM 18 9/23 13:05 (Jan 67 8/10/23		Cacles Batefrime Symps		Company:	8
	MARKO	EA 1892	50.	67	123

Eurofins - Cleveland Sample Ro Barberton Facility	eceipt Form/Narrative	Login	#:
	Site Name		Cooler unpacked by:
Client Arcaclis		1:0122	anny
Cooler Received on 8/10/23	Opened on 8		CIVIT
FedEx: 1st Grd Exp UPS FA			her
Receipt After-hours: Drop-off Date		Storage Location	
	le Wrap Foarn Plastic Bag		
	Blue Ice Dry Ice Wate		
1. Cooler temperature upon receip		See Multiple Cooler Fo	
IR GUN # (CF_	-(). [Observed Coole	er Temp°C (Corrected Cooler Temp°C
-Were tamper/custody seals of -Were tamper/custody seals in 3. Shippers' packing slip attached to 4. Did custody papers accompany to 5. Were the custody papers relinque 6. Was/were the person(s) who coll 7. Did all bottles arrive in good con 8. Could all bottle labels (ID/Date/ 9. For each sample, does the COC so 10. Were correct bottle(s) used for th 11. Sufficient quantity received to pe 12. Are these work share samples an 15 yes, Questions 13-17 have bee 13. Were all preserved sample(s) at th 14. Were VOAs on the COC? 15. Were air bubbles >6 mm in any	of the cooler(s) signed & dated? In the bottle(s) or bottle kits (LLH attact and uncompromised? In the cooler(s)? In the sample(s)? In the sample(s)? It is a signed in the appropriate I is a signed in the COC I is a signed in the COC? I is a signed in the COC? I is a signed in the COC? I is a signed in the appropriate I is a sig	g/MeHg)? Yes place? ied on the COC? Yes containers (VAN), and se Yes ratory.	No NA S NO NA S NO NA S NO NA S NO NO
16. Was a VOA trip blank present in 17. Was a LL Hg or Me Hg trip blank			No No
Contacted PM Date	e by	via Verbal V	oice Mail Other
Concerning			
18. CHAIN OF CUSTODY & SAN	MPLE DISCREPANCIES	additional next page	Samples processed by:
Air bulbles in so	more may-	2-080823 (4 bottles - 7 oul
THE TOURS OF THE	Dog-c		Hes) 8-10-23
	500	1 (2 000	1007-
		·	
19. SAMPLE CONDITION			
Sample(s)	were received after	the recommended holdin	ng time had expired.
Sample(s)			in a broken container.
Sample(s)			diameter. (Notify PM)
20. SAMPLE PRESERVATION			,
Sample(s)		were furt	her preserved in the laboratory.
Sample(s)Prese	rvative(s) added/Lot number(s):_		
/OA Sample Preservation - Date/Tin	ne VOAs Frozen:		

Eurofins - Canton Sample Receipt Multiple Cooler Form Cooler Description Observed IR Gun # Coolant Corrected Temp °C (Circle) (Circle) (Circle) Temp °C Welke Blue Ice Dyke C Clem IR GUN 0; 22 Other Water None IR GUN #: _ Wellice) Blue Ice By ice 77 0,3 (EC) Clent 0.2 Other Mone Water By Ice Nue Ice IR GUN #: EC Client Box Other Water Welke Ne lce By Ice IR GUN #: BC Client Box Other IR GUN #: **Client** EC Box Other Weder Blue fce Bylce R GUN #: Client #C Ben Other Weller IR GUN 4: . Nue Ice By Ice **Client** SC Other Box Wellice Sive Ice Bylce IR GUN J: **Client** Other BC Bex IR GUN #: Client EC Box Other IR GUN 4: Wet Ice BC **Clout** Bett Other R GUN F: Well too **CSont** BC Box Other R GUN #: _ Bry Ice EC Class Other Bex IR CON &: . Wellice Mee ice Byles BC **Client** Other Ben Shee See IR CON F: BC **Cloud** Ben Other IR GUN F: Client BC Other Box IR GON #: **Client** 10 Diber Ben IR GUN #: . Wel Ice Ship Ice Bry bo BC **Client** Olher Box Nue Ice IR GUN #: Wel ice EC **Client** Box Olber Shee Ice Bry be IR GUN #: BC. **Client** Box Olher R GIN #: Day lee C Cloud Other Ben IR GUN #: Wellce Sive ice Day to **Clent** EC Box Other R GUN #: BC **CBont** Box Other IR GUN #: Wol Ico SC. Client Ben Other R GUN #: SC **Clout** Sex Other Bry too IR GUN #: BC Client Other Jex Mue ice Dry to IR GUN #: EC **Client** Other Box R CON 6: . EC Client Other Sex Wellice Sive Ice Dry Ice R GUN F: Clent Box Other Water No. IR GUN #: EC **Client** Bax Other R GUN #: ₽C Client Other Ben R GUN #: Nue lee Wel Ice SC. **Client Olher** Bez IR GUN F: Wel Ice EC Client Box Other R GUN #: EC Client Other R GIM #: EC **Client** Box Other See Temperature Excursion Form

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

DATA VERIFICATION REPORT



August 22, 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: 189870-1 Sample date: 2023-08-08

Report received by CADENA: 2023-08-22

Initial Data Verification completed by CADENA: 2023-08-22

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.

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch MS/MSD recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

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

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

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 $48108\ 517\text{-}819\text{-}0356$

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 entatively identified compound or when the data indicates the presence of an analyte / compound out 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: 189870-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401898 8/8/202	3701		MW-170S_080823 2401898702 8/8/2023			23		
				Report		Valid Report			Valid		
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	
GC/MS VOC OSW-8260	nn										
0311-8200	<u>امن</u> 1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		
	•				<u> </u>						
	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		
OSW-8260	<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 # 240-189870-1

CADENA Verification Report: 2023-08-22

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 51122R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-189870-1 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 Parent Sample		Analysis	
Sample ID	Labib	Wallix	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_55	240-189870-1	Water	08/08/2023		Х	
MW-170S_080823	240-189870-2	Water	08/08/2023		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	Reported		mance otable	Not Required
	No	Yes	No	Yes	Required
Sample receipt condition		Χ		X	
2. Requested analyses and sample results		Χ		X	
Master tracking list		Χ		X	
4. Methods of analysis		Χ		X	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
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 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 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.

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 VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Reported			rmance ptable	Not Required	
	No	Yes	No	Yes	Required	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)					
Tier II Validation						
Holding times/Preservation		Х		Х		
Tier III Validation	<u>'</u>				'	
System performance and column resolution		Х		Х		
Initial calibration %RSDs		Х		Х		
Continuing calibration RRFs		Х		Х		
Continuing calibration %Ds		Х		Х		
Instrument tune and performance check		Х		Х		
lon 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		Х		
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: BAShims

DATE: September 12, 2023

PEER REVIEW: Andrew Korycinski

DATE: September 14, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record





Client Contact	Regulat	ory program:		1	DW		NPDI	ES	RCRA	-	Oth	er										
Company Name: Arcadis	Client Project Manager: Kris Hinsk					skey Site Contact: Christina Weaver				-	Lab Contact: Mike DelMonico							TestAmerica Labo	ratories, Inc			
Address: 28550 Cabot Drive, Suite 500			111131			3110	Telephone: 248-994-2240					Telephone: 330-497-9396					COC NO:					
Classification / (21-10) 1: NRI 40277	Telephone: 248	-994-2240				Tel												60.6				
City/State/Zip: Novi, MI, 48377	Email: kristoffe	er.hinskey@ar	cadis.	com		100	Analysis Turnaround Time TAT if different from below 3 weeks				Analyses						1 of 1 For lab use only	COCs				
Phone: 248-994-2240																			I or and use only			
Project Name: Ford LTP Off-Site	_ Sampler Name	lost	9/		100														Walk-in client			
Project Number: 30167538.402.04	Method of Ship	ment/Carrier:	100	^2J/	160		10 day	,	2 weeks	2	y							SIM			Lab sampling	
PO # 30167538.402.04	Shipping/Track	ing No:							2 days I day	Sample (V / N)	C/Grab-G		G09	8260			8260D	G09			Job/SDG No:	
			100	N	fatrix	100	Conti	alners	& Preservatives		10	2601	E 82	DCE			de	e 82			CTMS CONTRACT AND A	
Sample Identification	Sample Date	Sample Time	Λlr	Aqueous	Sediment Solid Other:	H2SO4	HNO3	HCI	NaOH ZnAe/ NaOH Unpres Other:	Filtered Se	Composite	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride	1,4-Dioxane 8260D			Sample Specifi Special Instr	
TRIP BLANK_ 55				1				1		=	1 G		X	X	X	X	X				1 Trip Blank	
	C/-/		\vdash		. —	-		+		+		-	1.	-			-				3 VOAs for 82	
MW-1705-080823	8/8/23	1235	<u> </u>	6		+	\vdash	9		0	16	X	X	X	X	λ	X	X			3 VOAs for 82	
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Possible Hazard Identification		l				_	Sample	Disp	osal (A fee may b	be asse	essed I	fsamp	oles ar	e reta	ined le	nger	than 1	mont	a)	1_1_		
Non-Hazard Flammable Skin Irrit Special Instructions/QC Requirements & Comments:			Unk	nown			1 R	Return	to Client		osal B	y Lab			Archive				onths			
	con St																					
Submit all results through Cadena at ftomalia@cadenac	o.com. Cadena f	E203631																				
Level IV Reporting requested.																						
Refinquished by: Went Kusper.	Company:	dis		Date/	18/2	3	154	2	Received by:	11	(2/10		101	chi	Com	рапу	ro	dis		Date/Tinte:	1542
Relinquished by:	Company:	dis		Dates	1 /23	31	305	F	Received by:	Æ	7 C1	A			- -/ '	Com	pany:		A		Date/lime:	3100
Relinquished by:	Company:	7A		Date/		_	05	-	Received in Labor	atory	by:					Com	pany:				Date/Time:	8:40
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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-189870-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_55

Lab Sample ID: 240-189870-1

Date Collected: 08/08/23 00:00 **Matrix: Water** Date Received: 08/10/23 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/14/23 17:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/14/23 17:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/14/23 17:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/14/23 17:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/14/23 17:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/14/23 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137					08/14/23 17:49	1
4-Bromofluorobenzene (Surr)	91		56 - 136					08/14/23 17:49	1
Toluene-d8 (Surr)	92		78 - 122					08/14/23 17:49	1
Dibromofluoromethane (Surr)	109		73 - 120					08/14/23 17:49	

Client Sample ID: MW-170S_080823 Lab Sample ID: 240-189870-2

Date Collected: 08/08/23 12:35 Date Received: 08/10/23 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS) Result Qualifier Analyte MDL Unit D Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 08/16/23 12:41

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 08/16/23 12:41 90 66 - 120

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/14/23 18:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/14/23 18:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/14/23 18:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/14/23 18:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/14/23 18:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/14/23 18:13	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99	62 - 137		08/14/23 18:13	1
4-Bromofluorobenzene (Surr)	89	56 - 136		08/14/23 18:13	1
Toluene-d8 (Surr)	90	78 - 122		08/14/23 18:13	1
Dibromofluoromethane (Surr)	110	73 - 120		08/14/23 18:13	1

Matrix: Water