

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 8/19/2023 10:33:22 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-189656-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Cleveland

Job Notes

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

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

Authorization

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

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Qualifiers

Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	
F2	MS/MSD RPD exceeds control limits	
U	Indicates the analyte was analyzed for but not detected.	5
Glossary		6
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	0
CFU	Colony Forming Unit	Ο
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	9
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"	13
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	

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
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DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 240-189656-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-189656-1

Receipt

The samples were received on 8/5/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.3°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

Eurofins Cleveland

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-189656-1	TRIP BLANK_21	Water	08/03/23 00:00	08/05/23 08:00
240-189656-2	MW-225S_080323	Water	08/03/23 10:50	08/05/23 08:00

Eurofins Cleveland 8/19/2023

Detection	Summary
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Lab Sample ID: 240-189656-2

Lab Sample ID: 240-189656-1

No Detections.

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-225S_080323

Client Sample ID: TRIP BLANK_21

No Detections.

Eurofins Cleveland

Client Sample ID: TRIP BLANK_21

Date Collected: 08/03/23 00:00 Date Received: 08/05/23 08:00

Method: SW846 8260D - Volati	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			08/15/23 17:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/15/23 17:33	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/15/23 17:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/15/23 17:33	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/15/23 17:33	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/15/23 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137			-		08/15/23 17:33	1
4-Bromofluorobenzene (Surr)	96		56 _ 136					08/15/23 17:33	1
Toluene-d8 (Surr)	97		78 - 122					08/15/23 17:33	1
Dibromofluoromethane (Surr)	113		73 - 120					08/15/23 17:33	1

Job ID: 240-189656-1

Lab Sample ID: 240-189656-1

Matrix: Water

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Eurofins Cleveland

Client Sample ID: MW-225S_080323

Date Collected: 08/03/23 10:50 Date Received: 08/05/23 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			08/08/23 18:29	1	ī.
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	88		66 - 120			-		08/08/23 18:29	1	
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS							i
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/15/23 17:56	1	Ē
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/15/23 17:56	1	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/15/23 17:56	1	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/15/23 17:56	1	
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/15/23 17:56	1	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/15/23 17:56	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			-		08/15/23 17:56	1	
4-Bromofluorobenzene (Surr)	94		56 - 136					08/15/23 17:56	1	
Toluene-d8 (Surr)	97		78 - 122					08/15/23 17:56	1	
Dibromofluoromethane (Surr)	114		73 - 120					08/15/23 17:56	1	÷,

8/19/2023

Job ID: 240-189656-1

Lab Sample ID: 240-189656-2 Matrix: Water

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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 TRIP BLANK_21 240-189656-1 113 109 96 97 MW-225S_080323 240-189656-2 107 94 97 114 240-189694-B-19 MS Matrix Spike 96 95 98 99 240-189694-B-19 MSD Matrix Spike Duplicate 99 100 97 102 LCS 240-583915/4 Lab Control Sample 107 96 98 102 MB 240-583915/7 Method Blank 109 92 93 109 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

		DCA
Lab Sample ID	Client Sample ID	(66-120)
240-189540-G-3 MS	Matrix Spike	95
240-189540-G-3 MSD	Matrix Spike Duplicate	88
240-189656-2	MW-225S_080323	88
LCS 240-583238/5	Lab Control Sample	89
MB 240-583238/7	Method Blank	87

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

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

Matrix: Water

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(10-150)	
MRL 240-583238/6	Lab Control Sample	87	
Surrogate Legend			

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

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

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

Lab Sample ID: MB 240-583915/7

Matrix: Water Analysis Batch: 583915

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/15/23 15:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/15/23 15:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/15/23 15:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/15/23 15:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/15/23 15:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/15/23 15:36	1

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 _ 137		08/15/23 15:36	1
4-Bromofluorobenzene (Surr)	92		56 - 136		08/15/23 15:36	1
Toluene-d8 (Surr)	93		78 - 122		08/15/23 15:36	1
Dibromofluoromethane (Surr)	109		73 - 120		08/15/23 15:36	1

Lab Sample ID: LCS 240-583915/4 Matrix: Water Analysis Batch: 583915

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	29.0		ug/L		116	63 - 134	
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	77 - 123	
Tetrachloroethene	25.0	27.0		ug/L		108	76 - 123	
trans-1,2-Dichloroethene	25.0	27.4		ug/L		110	75 - 124	
Trichloroethene	25.0	28.1		ug/L		112	70 - 122	
Vinyl chloride	12.5	12.1		ug/L		97	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		62 - 137
4-Bromofluorobenzene (Surr)	96		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

95

98

Lab Sample ID: 240-189694-B-19 MS Matrix: Water Analysis Batch: 583915

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	250	U	6250	5230		ug/L		84	56 - 135
cis-1,2-Dichloroethene	250	U	6250	5970		ug/L		96	66 - 128
Tetrachloroethene	250	U	6250	5360		ug/L		86	62 - 131
trans-1,2-Dichloroethene	250	U F2	6250	5010		ug/L		80	56 - 136
Trichloroethene	3600		6250	9080		ug/L		87	61 - 124
Vinyl chloride	250	U	3130	2820		ug/L		90	43 - 157
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	96		62 - 137						

56 - 136

78 - 122

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

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

Job ID: 240-189656-1

8/19/2023

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

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12 13

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

Matrix: Water	
Analysis Batch: 583915	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	99		73 - 120

Lab Sample ID: 240-189694-B-19 MSD Matrix: Water

Lab Sample ID: 240-189694-B-19 MS

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

Analysis Batch: 583915

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	250	U	6250	5830		ug/L		93	56 - 135	11	26
cis-1,2-Dichloroethene	250	U	6250	6310		ug/L		101	66 - 128	6	14
Tetrachloroethene	250	U	6250	5510		ug/L		88	62 - 131	3	20
trans-1,2-Dichloroethene	250	U F2	6250	5970	F2	ug/L		96	56 - 136	18	15
Trichloroethene	3600		6250	9540		ug/L		95	61 - 124	5	15
Vinyl chloride	250	U	3130	2870		ug/L		92	43 - 157	2	24
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	99		62 - 137								
4-Bromofluorobenzene (Surr)	100		56 - 136								
Toluene-d8 (Surr)	97		78 - 122								
Dibromofluoromethane (Surr)	102		73 - 120								

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

Lab Sample ID: MB 240-583238	/7								Client S	Sample ID: Metho	od Blank
Matrix: Water										Prep Type:	Total/NA
Analysis Batch: 583238											
		MB	MB								
Analyte	R	esult	Qualifier	F	L	MDL Un	it	DI	Prepared	Analyzed	Dil Fac
1,4-Dioxane		2.0	U	2	0	0.86 ug/	Ľ			08/08/23 13:43	1
		MB	МВ								
Surrogate	%Reco	overy	Qualifier	Limits				1	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)		87		66 - 120	_					08/08/23 13:43	1
Lab Sample ID: LCS 240-58323	8/5							Clien	t Sample	e ID: Lab Control	l Samnle
Matrix: Water	0/0							onen	Country	Prep Type:	
Analysis Batch: 583238										Thep Type.	
Analysis Baten. 000200				Spike	LCS	LCS				%Rec	
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane				10.0	9.49		ug/L		95	80 - 122	
	LCS	LCS									
Surrogate	%Recovery	Qua	lifier	Limits							
1,2-Dichloroethane-d4 (Surr)	89			66 - 120							
Lab Sample ID: MRL 240-58323	8/6							Clien	t Sample	e ID: Lab Control	l Sample
Matrix: Water										Prep Type:	
Analysis Batch: 583238											
-				Spike	MRL	MRL				%Rec	
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	

Eurofins Cleveland

Limits

10 - 150

Spike

Added

Limits

66 - 120

10.0

MS MS

9.51

Result Qualifier

Unit

ug/L

D

%Rec

95

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

87

MRL MRL %Recovery Qualifier

Sample Sample

2.0 U

MS MS

95

Qualifier

%Recovery

Result Qualifier

1,2-Dichloroethane-d4 (Surr)

Analysis Batch: 583238

1,2-Dichloroethane-d4 (Surr)

Lab Sample ID: 240-189540-G-3 MS

Lab Sample ID: 240-189540-G-3 MSD

Surrogate

Analyte

1,4-Dioxane

Surrogate

Matrix: Water

Matrix: Water

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%Rec Limits 51 - 153 10 **Client Sample ID: Matrix Spike Duplicate**

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Analysis Batch: 583238												
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
1,4-Dioxane	2.0	U	10.0	9.52		ug/L		95	51 - 153	0	16	4
	MSD	MSD										2
Surrogate	%Recovery	Qualifier	Limits									
1.2-Dichloroethane-d4 (Surr)	88		66 - 120									

GC/MS VOA

LCS 240-583915/4

240-189694-B-19 MS

240-189694-B-19 MSD

Lab Control Sample

Matrix Spike Duplicate

Matrix Spike

Analysis Batch: 583238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189656-2	MW-225S_080323	Total/NA	Water	8260D SIM	
MB 240-583238/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-583238/5	Lab Control Sample	Total/NA	Water	8260D SIM	
MRL 240-583238/6	Lab Control Sample	Total/NA	Water	8260D SIM	
240-189540-G-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-189540-G-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
analysis Batch: 58391	5				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189656-1	TRIP BLANK_21	Total/NA	Water	8260D	
240-189656-2	MW-225S_080323	Total/NA	Water	8260D	
MB 240-583915/7	Method Blank	Total/NA	Water	8260D	

Total/NA

Total/NA

Total/NA

Water

Water

Water

8260D 8260D

8260D

Matrix: Water

Matrix: Water

Lab Sample ID: 240-189656-1

Client Sample ID: TRIP BLANK_21 Date Collected: 08/03/23 00:00

Date	Conecteu.	00/03/23 00.00	
Date	Received:	08/05/23 08:00	

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D			583915	LEE	EET CLE	08/15/23 17:33

Client Sample ID: MW-225S_080323 Date Collected: 08/03/23 10:50

Date Received: 08/05/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	583915	LEE	EET CLE	08/15/23 17:56
Total/NA	Analysis	8260D SIM		1	583238	MRL	EET CLE	08/08/23 18:29

Laboratory References:

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

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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	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

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

MICHIGAN 1G0 Teat	Chair TestAmerica Laboratory location: Brighton 10448 Citati	Chain of Custody Record 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	-2763 O-4 0-3	<u>lestAmerica</u>
Client Contact		NPDES RCRA Other		
	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	I estAmerica Laboratories, Inc. COC No:
Address: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	
City/State/Zip: Novi, MI, 48377	F. mail: kristoffer hinskov@arcedis.com	Attalvité l'urtarcound l'me	Апајусос	1 of 1 COCs
Phone: 248-994-2240				r or an use outy
Project Name: Ford LTP Off-Site Project Number: 30167538.402.04	Sampler Name: Kend I Key Der Method of Shipment/Carrier:		C	Walk-in client Lab sampling
PO#30167538.402.04	Shipping/Tracking No:	(Y) alg	≥ 82601 5E 8260	Job/SDG No:
Sample Identification	Matrix Matrix Sample Date Sample Time Air	Li't-DCE 8309 Combretice Lijtetced Sami Guitet: VaOH VaOH HZOH HZOH HZOH HZOH	eis-1,2-DCE 6 Trans-1,2-DCE 6 PCE 8260D Vinyl Chloride Vinyl Chloride 1,4-Dioxane 6	Sumple Speeffic Notes / Special Instructions:
V TRIP BLANK_21				1 Trip Blank
~ MW-2255-080323	8/3/23 1050 6	S CX	- X X X X X	3 VOAs for 8260D 3 VOAs for 8260D SIM
		240-1 89656 Chain of Custody	Apot	
Possible Hazard Identification Prossible Hazard Identification Proventizard Special Intervention Requirements & Comments: Sample Address: 34800 Archill Sh SH Submit all results through Cadena #100malia@cadenaco.com. Cadena #5203631	tt Poison B Unknown Labor SA com. Galdena #5203631	Sample Disposal (A fee may be assessed if saiugles are retained longer than 1 month) Return to Client iv Disposal By Lab Archive For T Mo	ples are retained bonger than 1 month) Archive For T Months	
Level IV Reporting requested. Reinquished by: Kent Kesper		1648 Meys Cold	Storage Cumpany: colis	Date/Time: 23 1648
Jammer Huy	Company: Com	1210 Receiveday	Company: Company: EENC	Date/Time: 8-4-73 (2.10 Date/Time: 8-5-23 800
scottal Terkherrou Laponsons. Inc. All post-manued Terkherrou & Oway ¹⁶ are vectorians of Terkherrou Laboratories. Inc				

8/19/2023

Eurofins - Cleveland Sample Receipt Form/Narrative Login # : 189656 Barberton Facility Cooler unpacked by:
Site Name
Cooler Received on 8-5-23 Opened on 8-5-23 Mot
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other
Receipt After-hours: Drop-off Date/Time Storage Location
Eurofins Cooler # EC Foam Box Client Cooler Box Other
Packing material used: Bubble Wrap Foam Plastic Bag None Other
COOLANT: Wet Ice Blue Ice Dry Ice Water None
1. Cooler temperature upon receipt See Muhiple Cooler Form
IR GUN # 22 (CFO.) °C) Observed Cooler Temp. O.4 °C Corrected Cooler Temp. O.3 °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes No
-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 intact and uncompromised?
5. Shippers packing shp attached to the cooler(s):
 4. Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropriate place?
 Was/were the person(s) who collected the samples clearly identified on the COC? Was/were the person(s) who collected the samples clearly identified on the COC?
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 (V) 3-5
10. Were correct bottle(s) used for the test(s) indicated?
11. Sufficient quantity received to perform indicated analyses?
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# 10BDH4321
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# 10BDH4321 14. Were VOAs on the COC? Image: Were VOAs on the COC?
15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes to NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #00413011 (No
17. Was a LL Hg or Me Hg trip blank present?Yes No
Contacted PM Date by via Verbal Voice Mail Other
Contacted PM Date by via verbai voice Mail Other
Concerning
Concerning
Concerning 18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: 19. SAMPLE CONDITION
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:
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18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: 19. SAMPLE CONDITION
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: 19. SAMPLE CONDITION were received after the recommended holding time had expired. Sample(s) were received after the recommended holding time had expired. Sample(s) were received after the recommended holding time had expired. Sample(s) were received after the recommended holding time had expired. Sample(s) were received with bubble >6 mm in diameter. (Notify PM) 20. SAMPLE PRESERVATION Sample(s)

DATA VERIFICATION REPORT



August 19, 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: 189656-1 Sample date: 2023-08-03 Report received by CADENA: 2023-08-19 Initial Data Verification completed by CADENA: 2023-08-19 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 <u>http://clms.cadenaco.com/index.cfm</u>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
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: 189656-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BL/ 2401890 8/3/202	- 5561			MW-225 2401896 8/3/202	_ 5562	23	
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-8260</u>	<u>DC</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>	DDSIM									
	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 # 240-189656-1 CADENA Verification Report: 2023-08-19

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 51040R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-189656-1 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:

Somalo ID	Lab ID	Matrix	Sample	Barant Sampla	Ana	ysis
Sample ID	Labib	Matrix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_21	240-189656-1	Water	08/03/2023		Х	
MW-225S_080323	240-189656-2	Water	08/03/2023		Х	X

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

	Items Reviewed	Rep	orted	Perfor Accep	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		Х	
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 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.

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	Perfo Acce	Not Require	
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation					
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	
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		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		Х		Х	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

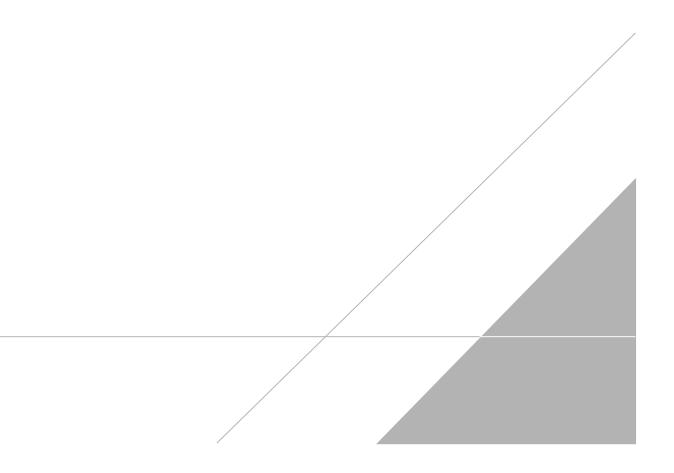
VALIDATION PERFORMED BY:	Bindu Sree M B
SIGNATURE:	BASHMB
DATE:	September 11, 2023

PEER REVIEW: Andrew Korycinski

DATE: September 13, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



MICHIGAN					Cha					•										\bigcirc	4	10-3	3	Te	estAmerico
190 Test Client Contact	America Labora	tory location:		iton	- 10448 C	itation (Suite	200		hton, M			810-2 Other		763							,	Test	LEADER IN ENVIRONMENTAL TESTING
Company Name: Arcadis		or i brogram.			DW			DLay			ncna			PUNCT	1									7	estAmerica Laboratories, Inc
Address: 28550 Cabot Drive, Suite 500	Client Project	Manager: Kris	Hinske	ey		Si	ite Co	ntact:	Chr	ristina	Weave	er				Lab C	ontac	t: Mil	e Del	Monic	0				COC No:
	Telephone: 248	-994-2240	-	-		T	eleph	one: 2	48-9	94-22	40					Telep	hone:	330-4	97-93	96				-+	
City/State/Zip: Novi, MI, 48377	Preselle Ladiate (- H-L-O-				-				ii a tradi	nd Tim	0								nalys					1 of 1 COCs
Phone: 248-994-2240	Email: Kristoff	er.hinskey@ar	cadis.c	com				any and				-		ŀ	1		-	-	A	liaiys	es.		TT		or lab use only
Project Name: Ford LTP Off-Site	Sampler Name		/			Т	ATife	lifferent	from	below 3 wee														v	Valk-in client
Project Name: Pora L'IP On-She		ent l	as	no	2		10 c	lay	~	2 we			3											1	ab sampling
Project Number: 30167538.402.04	Method of Ship	ment/Carrier:		P						I wee			2	CO I			٥				SIM				in and trail
PO # 30167538.402.04	Shipping/Track	ing No:								2 day 1 day			mple (Y / N)	C/Grab G	0	1260D	E 8260D			8260D	8260D S			J	ob/SDG No:
				N	latrix	_	C	ontaine	ers &	Preser	vatives		Sam	11	8260D	CE	-DC	8	8	oride	ne 8				
Sample Identification	Sample Date	Sample Time	Air	Aquenus	Sedimrai Solid Other:		H2SO4	HCI	NaOH	ZaAc/ NaOH	Unpres. Other:		ered	Composit	1.1-DCE	cis-1,2-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride	1,4-Dioxane				Sample Specific Notes / Special Instructions:
TRIP BLANK_ 21			Π	1		Τ		1					N	G	X	X	Х	x	X	x				T	1 Trip Blank
MW-2255_080323	8/3/23	1050		4				6					NI	5		×	λ	X	X	X	x				3 VOAs for 8260D 3 VOAs for 8260D SIM
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Possible Hazard Identification Non-Hazard Flammable Skin Irrit	ant Poise	- D	Unkn				Sam				fee ma					es are				han 1					
Special Instructions/QC Requirements & Comments:	1 .		Unkn	IOWN				Ketu	an to	Clien		Di	sposa	Вут	Lab	-	A	rchive	ror		M	onths			
Sample Address: 34800 Stor Submit all results through Cadena at Itomalia@cadenac	ndish	St.																							
Submit all results through Cadena at tomalia@cadenace Level IV Reporting requested.	o.com. Cadena #	E203631																							
Relinquished by: Kent Kesper	Company:	odís	1	Date/		2	11.	48	Rec	cived	er y	1	-	Id	15	4	10	4	Com	Dany:		dis		r	Bate/Time: 8/3/23 1640
Relinquished by: Omper Aug	Company: Hrca	dis	1	Dute/I	rinte: 4/23		210		Rec	ceived		n	0	4	_	10	7		Com						013/23 1010 Date/Time: 8-4-23 1210
Relinquished by: Li Hare	Company:			Date/	14/23		210		Reg	ceined /	in tab	orator	y by:	-					Com	pany:	N	C		D	B-5-23 BQ

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Client Sample ID: TRIP BLANK_21

Date Collected: 08/03/23 00:00

Date Received: 08/05/23 08:00

Method: SW846 8260D - Volatile	Organia Compoundo by CC/MC

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/15/23 17:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/15/23 17:33	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/15/23 17:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/15/23 17:33	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/15/23 17:33	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/15/23 17:33	1
Surrogate	%Recovery	Qualifier	Limits			-	Prepared	Analyzed	Dil Fac

Sunogate	/mecovery	Quanner	Linits	riepureu	Analyzeu	Dirrac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137		08/15/23 17:33	1
4-Bromofluorobenzene (Surr)	96		56 - 136		08/15/23 17:33	1
Toluene-d8 (Surr)	97		78 - 122		08/15/23 17:33	1
Dibromofluoromethane (Surr)	113		73 - 120		08/15/23 17:33	1

Client Sample ID: MW-225S_080323 Date Collected: 08/03/23 10:50 Date Received: 08/05/23 08:00

Dibromofluoromethane (Surr)

Lab Sample ID: 240-189656-2

Matrix: Water

Method: SW846 8260D SIM Analyte	-	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/08/23 18:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		66 - 120			-		08/08/23 18:29	1

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

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/15/23 17:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/15/23 17:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/15/23 17:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/15/23 17:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/15/23 17:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/15/23 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			-		08/15/23 17:56	1
4-Bromofluorobenzene (Surr)	94		56 - 136					08/15/23 17:56	1
Toluene-d8 (Surr)	97		78 - 122					08/15/23 17:56	1

73 - 120

08/15/23 17:56

1

Lab Sample ID: 240-189656-1 Matrix: Water