

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 8/16/2023 4:58:50 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-189608-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





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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

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RPD

TEF

TEQ

TNTC

Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	
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.	
¤	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	8
CNF	Contains No Free Liquid	0
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)	

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Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-189608-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-189608-1

Receipt

The samples were received on 8/4/2023 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

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-189608-1	TRIP BLANK_25	Water	08/01/23 00:00	08/04/23 08:00
240-189608-2	MW-139S_080123	Water	08/01/23 15:40	08/04/23 08:00

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Detection Summary

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

Client Sample ID: TRIP BLANK_25

No Detections.

Client Sample ID: MW-139S_080123

No Detections.

Job ID: 240-189608-1

Lab Sample ID: 240-189608-1

Lab Sample ID: 240-189608-2

Client Sample ID: TRIP BLANK_25

Date Collected: 08/01/23 00:00 Date Received: 08/04/23 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			08/11/23 14:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/11/23 14:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 14:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/11/23 14:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 14:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/23 14:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		62 - 137			-		08/11/23 14:30	1
4-Bromofluorobenzene (Surr)	93		56 - 136					08/11/23 14:30	1
Toluene-d8 (Surr)	105		78 - 122					08/11/23 14:30	1
Dibromofluoromethane (Surr)	106		73 - 120					08/11/23 14:30	1

Matrix: Water

Lab Sample ID: 240-189608-1

Eurofins Cleveland

Client Sample ID: MW-139S_080123

Date Collected: 08/01/23 15:40 Date Received: 08/04/23 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			08/14/23 11:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		66 - 120			-		08/14/23 11:28	1
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			08/11/23 17:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/11/23 17:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 17:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/11/23 17:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 17:26	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/23 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		08/11/23 17:26	1
4-Bromofluorobenzene (Surr)	92		56 - 136					08/11/23 17:26	1
Toluene-d8 (Surr)	101		78 - 122					08/11/23 17:26	1
Dibromofluoromethane (Surr)	105		73 - 120					08/11/23 17:26	1

8/16/2023

Job ID: 240-189608-1

Lab Sample ID: 240-189608-2 Matrix: Water

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

Matrix: Water

Prep Type: Total/NA

Prep Type: Total/NA

				Percent Su	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-189608-1	TRIP BLANK_25	115	93	105	106
240-189608-2	MW-139S_080123	112	92	101	105
240-189608-2 MS	MW-139S-MS_080123	108	104	109	103
240-189608-2 MSD	MW-139S-MSD_080123	111	103	108	106
LCS 240-583655/5	Lab Control Sample	109	103	108	106
MB 240-583655/8	Method Blank	114	92	106	105
Surrogate Legend					
DCA = 1,2-Dichloroeth	ane-d4 (Surr)				
BFB = 4-Bromofluorob	enzene (Surr)				
TOL = Toluene-d8 (Sur	rr)				
DBFM = Dibromofluoro	omethane (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)	
40-189608-2	MW-139S_080123	96	
240-189608-2 MS	MW-139S-MS_080123	89	
240-189608-2 MSD	MW-139S-MSD_080123	94	
LCS 240-583761/5	Lab Control Sample	87	
MB 240-583761/7	Method Blank	91	

Surrogate Legend

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

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

Matrix: Water Analysis Batch: 583655

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/11/23 14:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/11/23 14:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 14:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/11/23 14:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 14:05	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/23 14:05	1

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137		08/11/23 14:05	1
4-Bromofluorobenzene (Surr)	92		56 _ 136		08/11/23 14:05	1
Toluene-d8 (Surr)	106		78 - 122		08/11/23 14:05	1
Dibromofluoromethane (Surr)	105		73 - 120		08/11/23 14:05	1

Lab Sample ID: LCS 240-583655/5 Matrix: Water Analysis Batch: 583655

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	25.6		ug/L		103	63 - 134	
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	77 - 123	
Tetrachloroethene	25.0	25.8		ug/L		103	76 - 123	
trans-1,2-Dichloroethene	25.0	24.3		ug/L		97	75 - 124	
Trichloroethene	25.0	24.2		ug/L		97	70 - 122	
Vinyl chloride	12.5	10.3		ug/L		82	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		62 - 137
4-Bromofluorobenzene (Surr)	103		56 - 136
Toluene-d8 (Surr)	108		78 - 122
Dibromofluoromethane (Surr)	106		73 - 120

109

Lab Sample ID: 240-189608-2 MS Matrix: Water Analysis Batch: 583655

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	25.0	24.7		ug/L		99	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	22.7		ug/L		91	66 - 128
Tetrachloroethene	1.0	U	25.0	23.9		ug/L		95	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	23.0		ug/L		92	56 - 136
Trichloroethene	1.0	U	25.0	22.8		ug/L		91	61 - 124
Vinyl chloride	1.0	U	12.5	9.65		ug/L		77	43 - 157
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	108		62 - 137						
4-Bromofluorobenzene (Surr)	104		56 - 136						

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

Client Sample ID: Lab Control Sample

Client Sample ID: MW-139S-MS_080123

Prep Type: Total/NA

Prep Type: Total/NA

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78 - 122

Analysis Batch: 583655

Matrix: Water

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Lab Sample ID: 240-189608-2 MS

Client Sample ID: MW-139S-MS_080123 Prep Type: Total/NA



14

15

15

MS MS Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 103 73 - 120 Lab Sample ID: 240-189608-2 MSD Client Sample ID: MW-139S-MSD_080123 Matrix: Water Prep Type: Total/NA Analysis Batch: 583655 MSD MSD %Rec RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 1,1-Dichloroethene 1.0 U 25.0 24.5 ug/L 98 56 - 135 1 26 cis-1,2-Dichloroethene 1.0 U 25.0 22.6 90 66 - 128 ug/L 1 Tetrachloroethene 1.0 U 25.0 22.6 ug/L 91 62 - 131 20 5 trans-1,2-Dichloroethene 1.0 U 25.0 23.2 ug/L 93 56 - 136 1 Trichloroethene 1.0 U 25.0 22.5 ug/L 90 61 - 124 2 Vinyl chloride 1.0 U 12.5 10.4 ug/L 83 43 - 157 7 24 MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 111 62 - 137 103 4-Bromofluorobenzene (Surr) 56 - 136

78 - 122

73 - 120

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

108

106

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

Lab Sample ID: MB 240-583761 Matrix: Water	17										Client S	Sample ID: Metho Prep Type: ⁻	
Analysis Batch: 583761													
Analysis Batch. 303701		мв м	ИВ										
Analyte	R		Qualifier	R	L	MDL	Unit		D	Pr	repared	Analyzed	Dil Fa
1,4-Dioxane		2.0 U		2		0.86					eparea	08/14/23 11:05	
I,+-Dioxane		2.0 0	,	2	0	0.00	ug/L					00/14/20 11:00	
		MB N	ИВ										
Surrogate	%Reco	very G	Qualifier	Limits						Pı	repared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)		91		66 - 120	_							08/14/23 11:05	
-													
Lab Sample ID: LCS 240-58376	1/5								Clie	ent	Sample	e ID: Lab Control	Sampl
Matrix: Water												Prep Type:	Fotal/N
Matrix: Water Analysis Batch: 583761												Prep Type:	Fotal/N/
				Spike	LCS	LCS						Prep Type: [•] %Rec	Fotal/N/
				Spike Added	LCS Result		fier	Unit		D	%Rec		Fotal/N
Analysis Batch: 583761				•			fier	Unit ug/L		D	%Rec 95	%Rec	Fotal/N/
Analysis Batch: 583761 Analyte	LCS	LCS		Added	Result		fier			D		%Rec Limits	Γotal/Ν <i>ι</i>
Analysis Batch: 583761 Analyte	LCS %Recovery			Added	Result		fier			<u>D</u> .		%Rec Limits	Fotal/N /
Analysis Batch: 583761 Analyte 1,4-Dioxane			ier	Added	Result		fier			D		%Rec Limits	Γotal/Ν
Analysis Batch: 583761 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr)	%Recovery 87		ier	Added 10.0	Result		fier				95	%Rec Limits 80 - 122	
Analysis Batch: 583761 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-189608-2 M	%Recovery 87		ier	Added 10.0	Result		fier				95	%Rec Limits 80 - 122	
Analysis Batch: 583761 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-189608-2 M Matrix: Water	%Recovery 87		ier	Added 10.0	Result		fier				95	%Rec Limits 80 - 122	
Analysis Batch: 583761 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-189608-2 M	%Recovery 87	Qualifi		Added 10.0	Result	Quali	fier				95	%Rec Limits 80 - 122	
Analysis Batch: 583761 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-189608-2 M Matrix: Water	%Recovery 87	Qualifi Sample	e	Added 10.0 Limits 66 - 120	Result 9.50	Quali			Clier		95	%Rec Limits 80 - 122	08012

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	89		66 - 120								
- Lab Sample ID: 240-189608-	-2 MSD					с	lient Sa	mple ID	: MW-139S	-MSD_0	80123
Matrix: Water									Prep 1	Type: To	tal/NA
Analysis Batch: 583761											
	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	9.80		ug/L		98	51 _ 153	13	16
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	94		66 - 120								

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GC/MS VOA

240-189608-2 MSD

MW-139S-MSD_080123

Analysis Batch: 583655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189608-1	TRIP BLANK_25	Total/NA	Water	8260D	
240-189608-2	MW-139S_080123	Total/NA	Water	8260D	
MB 240-583655/8	Method Blank	Total/NA	Water	8260D	
LCS 240-583655/5	Lab Control Sample	Total/NA	Water	8260D	
240-189608-2 MS	MW-139S-MS_080123	Total/NA	Water	8260D	
240-189608-2 MSD	MW-139S-MSD_080123	Total/NA	Water	8260D	
Analysis Batch: 58376	51				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189608-2	MW-139S_080123	Total/NA	Water	8260D SIM	
MB 240-583761/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-583761/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-189608-2 MS	MW-139S-MS_080123	Total/NA	Water	8260D SIM	

Total/NA

Water

8260D SIM

Matrix: Water

Client Sample ID: TRIP BLANK_25 Date Collected: 08/

Client Sample I	D: TRIP B	LANK_25					L	_ab Sample II	D: 240-189608-1
Date Collected: 08	8/01/23 00:00)							Matrix: Water
Date Received: 08	/04/23 08:00)							
Г									
	Batch	Batch		Dilution	Batch			Prepared	
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	

Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D		1	583655	CDG	EET CLE	08/11/23 14:30	
Client Sam	ple ID: MW-13	9S 080123						Lab Sample ID: 240-18	9608-2

Client Sample ID: MW-139S_080123 Date Collected: 08/01/23 15:40

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	583655	CDG	EET CLE	08/11/23 17:26
Total/NA	Analysis	8260D SIM		1	583761	MRL	EET CLE	08/14/23 11:28

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 190	Chai Tret America I absoratory location: Biothon 10448 City	Chain of Custody Record	0-0/10-3	TestAmerica
Client Contact	-	NPDES RCRA Other		
Company Name: Arcadis Addame: 39666 Cabad Daine Suite 600	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	TestAmerica Laboratories, Inc. COC No:
Audress, 20200 Callot Drive, Suite 200 Classifictation, Noval Mil, 69377	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	
C.I.(7)/State(2/24): 70/1, 741, 46377	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	for lab use only COCs
Frone: 248-994-2240 Project Name: Ford L/TP Off-Site Project Number: 30167538,402.04	Sampler Name: Aurrett Lonk Method of Shipment/Carrier:	()		Walk-in client Leb sampling
PO#30167538.402.04	Shipping/Tracking No:	ple (X / I	* 8560D	Job/SDG No:
Sample Identification	Matrix Matrix Sould Sould Aurons Aurons Air Air	1/1-DCE 8360 Composite-C Gun	645-1 2-DCE 8 Trans-1,2-DC PCE 8260D Vinyl Chloride 1,4-Dioxane 8	Sample Specific Notes / Special Instructions:
I TRIP BLANK_25		1 NG X		1 Trip Blank
~ MW-1395-080123	41/25 15.40 6	C NG X	XXXXXX	3 VOAs for 8260D 3 VOAs for 8260D SIM
BU MW -1395 - MS 080123	8/1/23 (5:40 6	6 NGX	XXXXXX	3 VOQ 5 for \$260 D 3102 for \$260 D
MSD_	3/1/23 17:40 6	6 VGX	XXXXXX	1 1
19				
			240-189608 Chain of Custody	
Possible Hazard Identification	ant Poison B Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Client Disposal By Lab Archive For Mou	ples are retained longer than 1 month) Archive For [Months	
Special Instructions/OC Requirements & Comments: Sample Address: ろんんとく、 アんし Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	o.com. Cadena #E203631			
Relinquished by: Gagrett Link	دمانح	1705 Received by: 1705 Navi Cold	Storage Company read (5	1201/12/12 1700
Retinquished by Jammer Ku	cadus	1350 Received by Acres		
	3723		EETH	8/4/23 800
©2008. Teudimenta Legoratorea. Inc. All ryths reserved Teudimenta & Deson 14 are todemans of tendumenta Laboratores. Inc.				

	gin # :
Barberton Facility	Cooler unpacked by:
Client Arcad S Site Name Cooler Received on 8.9.23 Opened on 8-8.23	
Cooler Received on 8-9-23 Opened on 8-9-23	Matt
FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courie	
Receipt After-hours: Drop-off Date/Time Storage Locati	
Eurofins Cooler # Foam Box Client Cooler Box Other	
Packing material used: Bubble Wap Foam Plastic Bag None Other	
COOLANT: Werkee, Blue Ice Dry Ice Water None 1. Cooler temperature upon receipt See Multiple Cool	las Form
IR GUN # (CF \sim O, 1 \sim C) Observed Cooler Temp. O .4	
 Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? Did all bottles arrive in good condition (Unbroken)? Could all bottle labels (ID/Date/Time) be reconciled with the COC? For each sample, does the COC specify preservatives (Y)N), # of containers (Y)N), and Were correct bottle(s) used for the test(s) indicated? 	Yes No Yes No
	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? 14. Were VOAs on the COC? 15. Were air bubbles >6 mm in any VOA vials? 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #0413017. 	Yes No NA pH Strip Lot# HC312502 Yes No Yes No Yes No Yes No
Contacted PM Date by via Verba	l Voice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page	e Samples processed by:
19. SAMPLE CONDITION	alities since had availed
Sample(s) were received after the recommended he	ved in a broken container.
Sample(s) were received with bubble >6 m	
20. SAMPLE PRESERVATION	
Sample(s)were	further preserved in the laboratory.
Sample(s)were were Time preserved:Preservative(s) added/Lot number(s):	
VOA Sample Preservation - Date/Time VOAs Frozen:	

DATA VERIFICATION REPORT



August 16, 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: 189608-1 Sample date: 2023-08-01 Report received by CADENA: 2023-08-16 Initial Data Verification completed by CADENA: 2023-08-16 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: 189608-1

		Sample Name: Lab Sample ID: Sample Date:	Lab Sample ID: 2401896081								
				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 # 240-189608-1 CADENA Verification Report: 2023-08-16

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 51031R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-189608-1 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	Parent Sample	Analysis			
Sample ID	Labib	INIALITA	Collection Date		VOC	VOC SIM	
TRIP BLANK_25	240-189608-1	Water	08/01/2023		Х		
MW-139S_080123	240-189608-2	Water	08/01/2023		Х	X	

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed			orted	Perfor Accep	mance otable	Not Required
			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										
	No	Yes	No	Yes	Required									
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)													
Fier 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

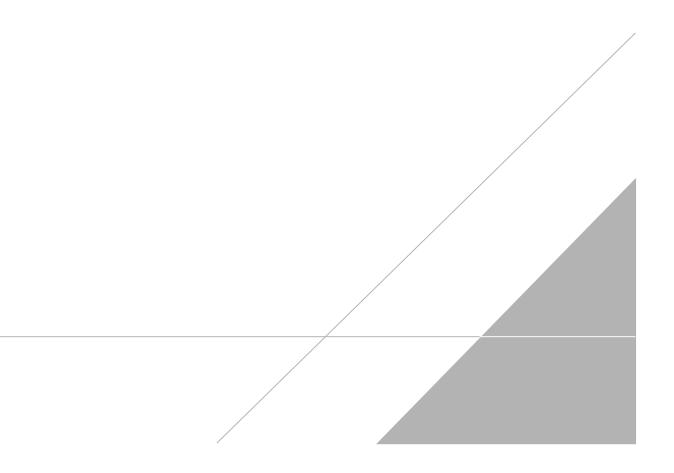
VALIDATION PERFORMED BY:	Bindu Sree M B
SIGNATURE:	BASHMB
DATE:	September 11, 2023

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





Chain of Custody Record

0.410.3 THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica

TestAmerica Laboratory location	Brighton 10448 Cita	tion Drive, Suite 200 /	Brighton, MI 48116	/ 810-229-2763
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Client Contact	Regula	tory program:	:	1	DW		NI	PDES		E RC	RA	·	Othe	r									
Company Name: Arcadis	Client Project	Managar: Kris	Hinekov				to Ca	nteet	Chui	tine M				1.	Lab (1			15.4				ierica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey														Lab Contact: Mike DelMonico						COC No:		
City/State/Zip: Novi, MI, 48377	Telephone: 24	Telephone: 248-994-2240							Telephone: 248-994-2240						Telephone: 330-497-9396						1 of 1 COCs		
Phone: 248-994-2240	Email: kristof	Email: kristoffer.hinskey@arcadis.com						Analysis Turnaround Time						Analyses						For lab 1			
	Sampler Name: TAT if		ATit	different														Wałk-in	client				
Project Name: Ford LTP Off-Site	Gur	ett L	ink				10 0	lav		3 weeks 2 weeks												A STATE OF A	
Project Number: 30167538.402.04	Method of Ship	ment/Carrier:						,	F	l week		2	Ŷ			0				SIM		Lab sampling	
PO # 30167538.402.04	Shipping/Trac	king No:								2 days 1 day		1X	C / Grab=G		00	8260D			260D	DO		Job/SDO	3 No:
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				_				T		Т	1	0	osite		-DCE	1,2-0	2600	260D	hlori	xane			
Sample Identification	Sample Date	Sample Time	Air	Sediment	Solid	Other:	H2S04	HCI	NaOH	ZaAc NaOU Unpres	Other:	Filtered	Composite	1,1-DCE	cis-1,2-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane			imple Specific Notes / Special Instructions:
TRIP BLANK_25			1	1		T		1				N	G	X	Х	х	X	X	X			1 T	rip Blank
MW-1393-080123	\$/1/23	15.40	C	0			1	6			1	WK	G	X	X	X	X	'X	X	X			DAs for 8260D
													-	_								3 10	DAs for 8260D SIM
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MW -1395 -MS_080125	8/1/23	13:40	G					6				N	G	X	X	X	X	X	X	X		310	45 for \$2607 3:1
MW-1395-MS_080123 MW-1395-MSD_080(23	8/1/23 8/1/23	15:40	G	5				6				N	G	X	Х	X	X	$ \rangle$	X	X		_	V
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Possible Hazard Identification	1			1		-+	Sam	ple Di	sposa	I (A fee	may be	e assesse	d if	sample	es are	reta	ined I	onger	than	month	, 1 1 1		
Non-Hazard Flammable Skin Irrit Special Instructions/QC Requirements & Comments:	ant I Pois	on B	Unkno	wn			F			Client		Disposa						c For			onths		
Sample Address: Beacon ROW Submit all results through Cadena at jtomalia@cadenacd																							
Submit all results through Cadena at jtomalia@cadenace Level IV Reporting requested.	o.com. Cadena i	Æ203631																					
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Client Sample ID: TRIP BLANK_25

Date Collected: 08/01/23 00:00

Date Received: 08/04/23 08:00

Mathead, OW040,0000 Males	
wethod: 500846 8260D - Vola	tile 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			08/11/23 14:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/11/23 14:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 14:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/11/23 14:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 14:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/23 14:30	1
Surrogato	%Pecoverv	Qualifier	Limite				Proparad	Analyzod	Dil Eac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		62 - 137		08/11/23 14:30	1
4-Bromofluorobenzene (Surr)	93		56 - 136		08/11/23 14:30	1
Toluene-d8 (Surr)	105		78 - 122		08/11/23 14:30	1
Dibromofluoromethane (Surr)	106		73 - 120		08/11/23 14:30	1

Client Sample ID: MW-139S_080123 Date Collected: 08/01/23 15:40 Date Received: 08/04/23 08:00

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Lab Sample ID: 240-189608-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/14/23 11:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		66 - 120					08/14/23 11:28	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/11/23 17:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/11/23 17:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 17:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/11/23 17:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 17:26	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/23 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137			_		08/11/23 17:26	1
4-Bromofluorobenzene (Surr)	92		56 - 136					08/11/23 17:26	1

78 - 122

73 - 120

101

105

08/11/23 17:26

08/11/23 17:26

1

1

Lab Sample ID: 240-189608-1 Matrix: Water