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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/15/2023 5:11:28 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-189619-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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Authorization

Generated 8/15/2023 5:11:28 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-189619-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-189619-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

U Indicates the analyte was analyzed for but not detected.

Glossary

Appreviation	These commonly used appreviations may or may not be present in this report.
n	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

Job ID: 240-189619-1

Project/Site: Ford LTP - Off Site

Job ID: 240-189619-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-189619-1

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.

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Method Summary

Client: ARCADIS US Inc Job ID: 240-189619-1 Project/Site: Ford LTP - Off Site

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

Protocol References:

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

Laboratory References:

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

Sample Summary

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

Job ID: 240-189619-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-189619-1	TRIP BLANK_13	Water	08/01/23 00:00	08/04/23 08:00
240-189619-2	MW-162S_080123	Water	08/01/23 11:59	08/04/23 08:00

Detection Summary

Client: ARCADIS US Inc Job ID: 240-189619-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_13 Lab Sample ID: 240-189619-1

No Detections.

Client Sample ID: MW-162S_080123 Lab Sample ID: 240-189619-2

No Detections.

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-189619-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_13

Lab Sample ID: 240-189619-1 Date Collected: 08/01/23 00:00

Matrix: Water

Date Received: 08/04/23 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			08/11/23 17:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/11/23 17:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 17:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/11/23 17:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 17:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/23 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		62 - 137			_		08/11/23 17:01	1
4-Bromofluorobenzene (Surr)	92		56 ₋ 136					08/11/23 17:01	1
Toluene-d8 (Surr)	105		78 - 122					08/11/23 17:01	1
Dibromofluoromethane (Surr)	105		73 - 120					08/11/23 17:01	1

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-189619-1

Project/Site: Ford LTP - Off Site

Date Received: 08/04/23 08:00

Client Sample ID: MW-162S_080123

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

Date Collected: 08/01/23 11:59

Lab Sample ID: 240-189619-2

Matrix: Water

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/08/23 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		66 - 120			-		08/08/23 17:18	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 21:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/11/23 21:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 21:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/11/23 21:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 21:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/23 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137			_		08/11/23 21:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepare	d Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137		08/11/23 21:37	1
4-Bromofluorobenzene (Surr)	89		56 - 136		08/11/23 21:37	1
Toluene-d8 (Surr)	100		78 - 122		08/11/23 21:37	1
Dibromofluoromethane (Surr)	102		73 - 120		08/11/23 21:37	1
						

Job ID: 240-189619-1

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

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-189608-E-2 MS	Matrix Spike	108	104	109	103
240-189608-F-2 MSD	Matrix Spike Duplicate	111	103	108	106
240-189619-1	TRIP BLANK_13	115	92	105	105
240-189619-2	MW-162S_080123	112	89	100	102
LCS 240-583655/5	Lab Control Sample	109	103	108	106
MB 240-583655/8	Method Blank	114	92	106	105
Surronate 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)	
240-189540-G-3 MS	Matrix Spike	95	
240-189540-G-3 MSD	Matrix Spike Duplicate	88	
240-189619-2	MW-162S_080123	88	
LCS 240-583238/5	Lab Control Sample	89	
MB 240-583238/7	Method Blank	87	
Surrogate Legend			

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	(10-150)	
MRL 240-583238/6	Lab Control Sample	87	
Surrogate Legend			
DCA = 1,2-Dichloroeth	ane-d4 (Surr)		

Job ID: 240-189619-1

0.45 ug/L

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

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

Lab Sample ID: MB 240-583655/8

Matrix: Water

Analysis Batch: 583655

Client Sample ID: Method Blan	k
Prep Type: Total/N	Α

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

1.0

1.0 U MB MB

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114	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

Vinyl chloride

Analysis Batch: 583655

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

08/11/23 14:05

	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

Lab Sample ID: 240-189608-E-2 MS

Matrix: Water

Analysis Batch: 583655

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	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	

Surrogate	%Recovery Quality	fier Limits
1,2-Dichloroethane-d4 (Surr)	108	62 - 137
4-Bromofluorobenzene (Surr)	104	56 - 136
Toluene-d8 (Surr)	109	78 - 122

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Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Job ID: 240-189619-1

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

Lab Sample ID: 240-189608-E-2 MS

Lab Sample ID: 240-189608-F-2 MSD

Matrix: Water

Analysis Batch: 583655

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS Surrogate

%Recovery Qualifier

Limits Dibromofluoromethane (Surr) 103 73 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 583655

Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1.0	U	25.0	24.5		ug/L		98	56 - 135	1	26
1.0	U	25.0	22.6		ug/L		90	66 - 128	1	14
1.0	U	25.0	22.6		ug/L		91	62 - 131	5	20
1.0	U	25.0	23.2		ug/L		93	56 - 136	1	15
1.0	U	25.0	22.5		ug/L		90	61 - 124	2	15
1.0	U	12.5	10.4		ug/L		83	43 - 157	7	24
	Result 1.0 1.0 1.0 1.0 1.0 1.0	Sample Sample	Result Qualifier Added 1.0 U 25.0 1.0 U 25.0	Result Qualifier Added Result 1.0 U 25.0 24.5 1.0 U 25.0 22.6 1.0 U 25.0 22.6 1.0 U 25.0 23.2 1.0 U 25.0 22.5	Result Qualifier Added Result Qualifier 1.0 U 25.0 24.5 1.0 U 25.0 22.6 1.0 U 25.0 22.6 1.0 U 25.0 23.2 1.0 U 25.0 22.5	Result Qualifier Added Result Qualifier Unit 1.0 U 25.0 24.5 ug/L 1.0 U 25.0 22.6 ug/L 1.0 U 25.0 22.6 ug/L 1.0 U 25.0 23.2 ug/L 1.0 U 25.0 22.5 ug/L	Result Qualifier Added Result Qualifier Unit D 1.0 U 25.0 24.5 ug/L 1.0 U 25.0 22.6 ug/L 1.0 U 25.0 22.6 ug/L 1.0 U 25.0 23.2 ug/L 1.0 U 25.0 22.5 ug/L	Result Qualifier Added Result Qualifier Unit D %Rec 1.0 U 25.0 24.5 ug/L 98 1.0 U 25.0 22.6 ug/L 90 1.0 U 25.0 22.6 ug/L 91 1.0 U 25.0 23.2 ug/L 93 1.0 U 25.0 22.5 ug/L 90	Result Qualifier Added Result Qualifier Unit D %Rec Limits 1.0 U 25.0 24.5 ug/L 98 56 - 135 1.0 U 25.0 22.6 ug/L 90 66 - 128 1.0 U 25.0 22.6 ug/L 91 62 - 131 1.0 U 25.0 23.2 ug/L 93 56 - 136 1.0 U 25.0 22.5 ug/L 90 61 - 124	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD 1.0 U 25.0 24.5 ug/L 98 56 - 135 1 1.0 U 25.0 22.6 ug/L 90 66 - 128 1 1.0 U 25.0 22.6 ug/L 91 62 - 131 5 1.0 U 25.0 23.2 ug/L 93 56 - 136 1 1.0 U 25.0 22.5 ug/L 90 61 - 124 2

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111	-	62 - 137
4-Bromofluorobenzene (Surr)	103		56 - 136
Toluene-d8 (Surr)	108		78 - 122
Dibromofluoromethane (Surr)	106		73 - 120

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

Lab Sample ID: MB 240-583238/7

Matrix: Water

Analysis Batch: 583238

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 08/08/23 13:43 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 87 66 - 120 08/08/23 13:43

Lab Sample ID: LCS 240-583238/5

Matrix: Water	•	Prep Type: Total/NA
Analysis Batch: 583238		

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 10.0 9.49 ug/L 95

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 89

Lab Sample ID: MRL 240-583238/6

Matrix: Water

Analysis Ratch: 583238

Analysis Baton: 600200								
	Spike	MRL	MRL				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	0.00200	0.00273		na/uL	_	136	10 - 150	

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Prep Type: Total/NA

QC Sample Results

Client: ARCADIS US Inc Job ID: 240-189619-1

Project/Site: Ford LTP - Off Site

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

	MRL	MRL	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		10 - 150

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

Matrix: Water

Analysis Batch: 583238

Samp	le Sample	Spike	MS	MS				%Rec
Analyte Resi	lt Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane 2	.0 U	10.0	9.51		ug/L		95	51 - 153

 Surrogate
 %Recovery 1,2-Dichloroethane-d4 (Surr)
 Qualifier 25
 Limits 66 - 120

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

Matrix: Water

Analysis Batch: 583238

1,2-Dichloroethane-d4 (Surr)

	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
	MSD	MSD									

 %Recovery
 Qualifier
 Limits

 66 - 120
 - 120

14

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

Eurofins Cleveland

QC Association Summary

Client: ARCADIS US Inc Job ID: 240-189619-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 583238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189619-2	MW-162S_080123	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: 583655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189619-1	TRIP BLANK_13	Total/NA	Water	8260D	
240-189619-2	MW-162S_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-E-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-189608-F-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-189619-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_13

Lab Sample ID: 240-189619-1 Date Collected: 08/01/23 00:00

Matrix: Water

Date Received: 08/04/23 08:00

	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 17:01

Client Sample ID: MW-162S_080123 Lab Sample ID: 240-189619-2

Date Collected: 08/01/23 11:59 Matrix: Water

Date Received: 08/04/23 08:00

	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 21:37
Total/NA	Analysis	8260D SIM		1	583238	MRL	EET CLE	08/08/23 17:18

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 240-189619-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
owa	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

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

City/State/Lip: Not. M. 4837 City/State/Lip: Not. M. 4837 City/State/Lip: Not. M. 4837 Emil: krivolfer Nume: 248-994-2240 Project Nume: 248-994-2240 Sampler Name: Park 171P BLANK 13 Froject Number: 20107538.402.04 Project Number: 20107538.402.04 Sample lebrard Identification Possible Hazard Identification P	10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 DW NPDES RCRA Other	THE LEADER IN ENVIRONMENTAL TESTING
TRIP BLANK_138.402.04 Possible Hazard Identification Possible Hazard Identification Family Company Possible Hazard Identification	Site Contact: Christina Weaver Lab Contact: Mike DelMonico	TestAmerica Laboratories, Inc
Project Number: Start LTP Off-Site Project Number: Start LTP Off-Site Project Number: Morf Lite off-Site	Telephone: 248-994-2240 Telephone: 330-497-9396	
Project Name: Ford LTP Off-Site Project Name: Ford LTP Off-Site Project Name: Ford LTP Off-Site Project Namber: 2016/538.402.04 Project Namber: 2016/538.402.04 Reinput of 3538.402.04 TRIP BLANK 13 15 15 15 15 15 15 15	Analysis Turnaround Time Analyses	For lab use only
TRIP BLANK_13 Sample Identification Sample Date Sample Time Sample Address: 12017 Sample Address: 1201) (i)	Walk-in client Lab sampling
TRIP BLANK_13	8560D S 8560D 860D 860D	Job/SDG No:
TRIP BLANK_13	Containers & Preservativ	Sample Specific Notes
TRIP BLANK_13	Others PERSON 1,1-D Com 1,1-D Trans MACO MACO	Special Instructions:
Possible Hazard Identification	X X X X X X X X X X X X X X X X X X X	1 Trip Blank
Skin Irritant Poison B Tunknown Prigode yard malia@cadenaco.com, Cadena #E203631 Company: C	× × × × × × × × × × × × × × × × × × ×	3 VOAs for 8260D 3 VOAs for 8260D SIM
Date Date State Page State Page State Page State Page State St	240-189619 Chain of Custody	
Unknown Date Date State Date State Stat		
Date Sales	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Client P Disposal By Lab Archive For Months	
Company: Company: Date Company: Date Company: Date Company: Date Company: Date Company: Compa		
Company: Company: Date	23 1719 Received by: Cold Storage, Company, Arradis	Date/fine: 17/9
Commany	1350 Received by Company.	323
Je tol 8/3/23	1350 META	8/4/23 8CX

	e Receipt Form/Narrative	Log	in#:	
Barberton Facility				
Client Arcadis	Site Name		Cooler un	packed by:
Cooler Received on 8-9-2	23 Opened on 2 -	1.23	Mat	1
FedEx: 1st Grd Exp. UPS	FAS Waypoint Client Drop Off			
Receipt After-hours: Drop-off		Storage Location		
Eurofins Cooler #				
Packing material used: Bu	ubble Wap Foam Plastic Bag			
	se Blue Ice Dry Ice Water	None		
1. Cooler temperature upon rec		See Multiple Cooler	Form	
•	CF_O. °C) Observed Cooler			er TempO, 3 °C
	on the outside of the cooler(s)? If Yes		No No	
	side of the cooler(s) signed & dated?		© No NA	Tests that are not
	ls on the bottle(s) or bottle kits (LLHg.		es lo	checked for pH by Receiving:
•	ls intact and uncompromised?	— ·	es No NA	Receiving.
Shippers' packing slip attache		X	No	VOAs
Did custody papers accompan		/	es No	Oil and Grease
	nquished & signed in the appropriate p		es, No	TOC
	collected the samples clearly identified		es (No	
. Did all bottles arrive in good	-		es No	
	ate/Time) be reconciled with the COC	, S	No No	_
	OC specify preservatives (Y/N), # of co			rab/comp(Y)N)?
0. Were correct bottle(s) used for			es No	
1. Sufficient quantity received to		and the second s	es No	
2. Are these work share samples			es No	
-	been checked at the originating labora			
3. Were all preserved sample(s)		•	es No NA pl	Strip Lot# HC312502
4. Were VOAs on the COC?	•		es No	,
5. Were air bubbles >6 mm in a	any VOA vials? 🛑 悔 Larger tha		es No NA	
	nt in the cooler(s)? Trip Blank Lot #C			
7. Was a LL Hg or Me Hg trip l		Y	es (No	
Contacted PM	Dateby	via Verbal	Voice Mail Othe	टा
Concerning				
concerning				
8. CHAIN OF CUSTODY & S	SAMPLE DISCREPANCIES Da	dditional next page	Samples proc	essed by:
		Page		
ample(s)	were received after th			
ample(s)ample(s)		were received	d in a broken cor	tainer.
ample(s)ample(s)		were received	d in a broken cor	tainer.
ample(s)ample(s)	were received	were received	d in a broken cor	tainer.
ample(s) ample(s) 0. SAMPLE PRESERVATION	were received	were received	d in a broken cor in diameter. (No	ntainer. tify PM)

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: 189619-1 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, 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 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: 189619-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLANK_13 2401896191 8/1/2023				MW-162S_080123 2401896192 8/1/2023				
				Report		Valid		Report		Valid	
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	
GC/MS VOC											
OSW-826	<u>0D</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		
OSW-826	<u>ODSIM</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 # 240-189619-1

CADENA Verification Report: 2023-08-16

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 51037R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-189619-1 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	Ana	lysis
Sample ID	Labib	IVIALITA	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_13	240-189619-1	Water	08/01/2023		Х	
MW-162S_080123	240-189619-2	Water	08/01/2023		Х	X

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	Rep	orted		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					'	
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 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 160

Chain of Custody Record

0.4/0.3

<u>TestAmerica</u>

190	TestAmerica Labora	tory location	: Brig	hton	10	1448 Citati	ion Driv	re, Su	uite 20	00 / E	3right	on, MI	48116	/ 81	0-229	2763						10.7	11	E LEADER IN ENVIRONMENTAL TESTIN
Client Contact	Regulat	ory program	:		1	DW	- 1	NPDI	ES	1	R	CRA		Oth	ner [
Company Name: Arcadis	Client Project	Manager: Kris	Hins	kev			Site (Contr	act: C	hrist	ina V	Veaver		_		Lab	Conta	et: Mi	ke De	Monic	20			TestAmerica Laboratories, Inc COC No:
Address: 28550 Cabot Drive, Suite 500	Telephone: 248																							
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240							e: 248							Tele	ohone	: 330-	197-9.	196				1 of 1 COCs
Phone: 248-994-2240	Email; kristoff	er.hinskey@ar	readis	.com			Analysis Turnaround Time					Analyses						For lab use only						
	Sampler Name						TAT	d deffe	crent fro						1									Walk-in client
Project Name: Ford LTP Off-Site	Rebec	ica Cost	igo	N			10	0 day	,		week week			1										Lab sampling
Project Number: 30167538,402.04	Method of Ship	ment/Carrier:	0				1 week 2 days 1 day				2	O	,		0				S S			Lao samping		
PO # 30167538.402.04	Shipping/Track	ing No:									2	3260D	E 8260			8260D	8260D \$			Job/SDG No:				
				sno	Matr			T	lainers	T			Filtered Samp	ië.	N CV	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	8260D	TCE 8260D	Chloride	1,4-Dioxane 8			Sample Specific Notes /
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment	Solid	H2SO4	HNO3	₽ Ş	ZaAc	NaOil	Orher	Ē	Co	=	CIS-1	Tran	PCE	TCE	Vinyl	1-4-[Special Instructions:
TRIP BLANK_ 13			Γ	1					1				N	I G	X	X	X	X	X	X				1 Trip Blank
MW-162S_080123	8/1/23	1159		0					6				٨	1 G	X	X	X	X	X	X	X			3 VOAs for 8260D 3 VOAs for 8260D SIM
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Possible Hazard Identification								\perp	Di.	4				1.				<u> </u>						
Non-Hazard Flammable Skin	Irritant Poisc	on B	Unl	know	n		58		Return				Dispo			oles ar		tned to Archiv		than I	month) Months			
Special Instructions/QC Requirements & Comments:	unal																							
Sample Address: 12017 Brewster, Side Submit all results through Cadena at itomalia@cade	naco.com. Cadena #	E203631																						
Level IV Reporting requested.	140			10	ar.				- 10															
Relinquished by: No learn / Orthin	Company:	dis		Pate 8	e Time	23	17	19	IR	A	JOV	i Co	bld	Sh	200	00			Con	pany:	Arcad	2,		Date/fime: 8/1/23 1719
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Relinquished by:	Company:			Par	3/3/	923	135	O	l K	tecer	vedie	Labor	atory t	by:					Con	pany:	TH			Date/Time: 8/4/23 800
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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-189619-1

Client Sample ID: TRIP BLANK_13

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-189619-1

Date Collected: 08/01/23 00:00 **Matrix: Water** Date Received: 08/04/23 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			08/11/23 17:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/11/23 17:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 17:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/11/23 17:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 17:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/23 17:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		62 - 137					08/11/23 17:01	1
4-Bromofluorobenzene (Surr)	92		56 - 136					08/11/23 17:01	1
Toluene-d8 (Surr)	105		78 - 122					08/11/23 17:01	1
Dibromofluoromethane (Surr)	105		73 - 120					08/11/23 17:01	1

Client Sample ID: MW-162S_080123 Lab Sample ID: 240-189619-2

Date Collected: 08/01/23 11:59 Date Received: 08/04/23 08:00

Method: SW846 8260D SIM	I - Volatile Orga	anic Comp	ounds (GC/N	1S)					
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 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		66 - 120			-		08/08/23 17:18	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 21:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/11/23 21:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 21:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/11/23 21:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/11/23 21:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/11/23 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137			•		08/11/23 21:37	1

Surrogate	Mecovery G	guaintei Liints	riepaieu	Allalyzeu	DII Fac
1,2-Dichloroethane-d4 (Surr)	112	62 - 137		08/11/23 21:37	1
4-Bromofluorobenzene (Surr)	89	56 - 136		08/11/23 21:37	1
Toluene-d8 (Surr)	100	78 - 122		08/11/23 21:37	1
Dibromofluoromethane (Surr)	102	73 - 120		08/11/23 21:37	1

Matrix: Water