PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 3/15/2023 10:12:44 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-181391-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Canton

Job Notes

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Authorization

Generated 3/15/2023 10:12:44 AM

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

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Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-181391-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-181391-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.					
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis					
%R	Percent Recovery					
CFL	Contains Free Liquid					
CFU	Colony Forming Unit					
CNF	Contains No Free Liquid					
DER	Duplicate Error Ratio (normalized absolute difference)					
Dil Fac	Dilution Factor					
DL	Detection Limit (DoD/DOE)					
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample					

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)
MCL EPA recommended "Maximum Co

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 U.S., Inc.

Job ID: 240-181391-1

Project/Site: Ford LTP - Off Site

Job ID: 240-181391-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-181391-1

Receipt

The samples were received on 3/4/2023 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 2.3°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 U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-181391-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-181391-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-181391-1	TRIP BLANK_86	Water	03/02/23 00:00	03/04/23 08:00
240-181391-2	MW-96S_030223	Water	03/02/23 11:50	03/04/23 08:00

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Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-181391-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_86 Lab Sample ID: 240-181391-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181391-1

Project/Site: Ford LTP - Off Site

Date Received: 03/04/23 08:00

Client Sample ID: TRIP BLANK_86

Lab Sample ID: 240-181391-1 Date Collected: 03/02/23 00:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 03/10/23 20:54 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 03/10/23 20:54 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 03/10/23 20:54 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 03/10/23 20:54 Trichloroethene 1.0 U 1.0 0.44 ug/L 03/10/23 20:54 Vinyl chloride 1.0 U 1.0 0.45 ug/L 03/10/23 20:54 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 62 - 137 1,2-Dichloroethane-d4 (Surr) 96 03/10/23 20:54 4-Bromofluorobenzene (Surr) 109 03/10/23 20:54 56 - 136 78 - 122 03/10/23 20:54 Toluene-d8 (Surr) 106 Dibromofluoromethane (Surr) 104 73 - 120 03/10/23 20:54

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181391-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-96S_030223

Lab Sample ID: 240-181391-2 Date Collected: 03/02/23 11:50

Matrix: Water

Date	Received:	03/04/23	08:00

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			03/10/23 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		66 - 120			-		03/10/23 19:04	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS
I Metilou. 344046 6260D - Volatile Ordanic Compounds by GC/M3

motion of the to ozoob totaline organic compounds by comic									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/10/23 21:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/10/23 21:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/10/23 21:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/10/23 21:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/10/23 21:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/10/23 21:42	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95	62 - 137		03/10/23 21:42	1
4-Bromofluorobenzene (Surr)	109	56 ₋ 136		03/10/23 21:42	1
Toluene-d8 (Surr)	103	78 - 122		03/10/23 21:42	1
Dibromofluoromethane (Surr)	102	73 - 120		03/10/23 21:42	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181391-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-181391-1	TRIP BLANK_86	96	109	106	104
240-181391-2	MW-96S_030223	95	109	103	102
240-181640-E-1 MS	Matrix Spike	95	112	107	104
240-181640-H-1 MSD	Matrix Spike Duplicate	93	111	107	104
LCS 240-564928/5	Lab Control Sample	95	111	105	105
MB 240-564928/10	Method Blank	96	114	105	102
0					

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-181391-2	MW-96S_030223	88	
240-181395-D-3 MSD	Matrix Spike Duplicate	88	
240-181395-E-3 MS	Matrix Spike	78	
LCS 240-564955/4	Lab Control Sample	86	
MB 240-564955/6	Method Blank	84	

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

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Job ID: 240-181391-1

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-564928/10

Matrix: Water

Analyte

Analysis Batch: 564928

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

MB MB Dil Fac Result Qualifier RL MDL Unit D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 03/10/23 13:39 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 03/10/23 13:39 1.0 U Tetrachloroethene 1.0 0.44 ug/L 03/10/23 13:39 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 03/10/23 13:39 Trichloroethene 1.0 U 1.0 0.44 ug/L 03/10/23 13:39 Vinyl chloride 1.0 U 1.0 03/10/23 13:39 0.45 ug/L

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137		03/10/23 13:39	1
4-Bromofluorobenzene (Surr)	114		56 - 136		03/10/23 13:39	1
Toluene-d8 (Surr)	105		78 - 122		03/10/23 13:39	1
Dibromofluoromethane (Surr)	102		73 - 120		03/10/23 13:39	1

Lab Sample ID: LCS 240-564928/5

Matrix: Water

Analysis Batch: 564928

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 93 63 - 134 1,1-Dichloroethene 20.0 18.6 ug/L 20.0 cis-1,2-Dichloroethene 18.3 ug/L 92 77 - 123 Tetrachloroethene 20.0 19.4 ug/L 97 76 - 123 75 - 124 trans-1,2-Dichloroethene 20.0 18.3 ug/L 92 Trichloroethene 20.0 90 70 - 122 18.1 ug/L Vinyl chloride 20.0 16.0 ug/L 60 - 144

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		62 - 137
4-Bromofluorobenzene (Surr)	111		56 ₋ 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	105		73 - 120

Lab Sample ID: 240-181640-E-1 MS

Matrix: Water

Analysis Batch: 564928

Client Sample ID: Matrix Spike

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	20.0	18.3		ug/L		92	56 - 135	
cis-1,2-Dichloroethene	1.0	U	20.0	18.0		ug/L		90	66 - 128	
Tetrachloroethene	1.0	U	20.0	19.2		ug/L		96	62 - 131	
trans-1,2-Dichloroethene	1.0	U	20.0	17.9		ug/L		89	56 - 136	
Trichloroethene	1.0	U	20.0	17.5		ug/L		87	61 - 124	
Vinyl chloride	1.0	U	20.0	17.1		ug/L		85	43 - 157	

MS MS

Surrogate	%Recovery 0	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		62 - 137
4-Bromofluorobenzene (Surr)	112		56 - 136
Toluene-d8 (Surr)	107		78 - 122

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Prep Type: Total/NA

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-181391-1

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

Lab Sample ID: 240-181640-E-1 MS

Matrix: Water

Analysis Batch: 564928

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

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 104 73 - 120

Lab Sample ID: 240-181640-H-1 MSD

Matrix: Water

Analysis Batch: 564928

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	20.0	19.6		ug/L		98	56 - 135	7	26
cis-1,2-Dichloroethene	1.0	U	20.0	18.6		ug/L		93	66 - 128	3	14
Tetrachloroethene	1.0	U	20.0	20.2		ug/L		101	62 - 131	5	20
trans-1,2-Dichloroethene	1.0	U	20.0	18.9		ug/L		94	56 - 136	6	15
Trichloroethene	1.0	U	20.0	18.9		ug/L		95	61 - 124	8	15
Vinyl chloride	1.0	U	20.0	17.1		ug/L		85	43 - 157	0	24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	111		56 - 136
Toluene-d8 (Surr)	107		78 - 122
Dibromofluoromethane (Surr)	104		73 - 120

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

Lab Sample ID: MB 240-564955/6

Matrix: Water

Analysis Batch: 564955

Client Sample ID: Method Blank 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 03/10/23 12:35

MB MB

MR MR

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 84 66 - 120 03/10/23 12:35

Lab Sample ID: LCS 240-564955/4

Matrix: Water

Analysis Batch: 564955

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 10.0 11.9 ug/L 119 80 - 122

LCS LCS

%Recovery Qualifier Limits Surrogate 1,2-Dichloroethane-d4 (Surr) 66 - 120 86

Lab Sample ID: 240-181395-D-3 MSD

Matrix: Water

Analysis Batch: 564955

Client Sample	ID: Matrix Spike Duplicate
	Down Town Translation

Prep Type: Total/NA

-	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	12.4		ug/L		124	51 - 153	7	16

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QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181391-1

Project/Site: Ford LTP - Off Site

1,2-Dichloroethane-d4 (Surr)

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

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	MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	88		66 - 120							
Lab Sample ID: 240-181395-E Matrix: Water Analysis Batch: 564955	E-3 MS							Client	Sample ID: M Prep Typ	latrix Spike e: Total/NA
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	11.6		ug/L		116	51 - 153	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

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QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-181391-1

GC/MS VOA

Analysis Batch: 564928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
240-181391-1	TRIP BLANK_86	Total/NA	Water	8260D	
240-181391-2	MW-96S_030223	Total/NA	Water	8260D	
MB 240-564928/10	Method Blank	Total/NA	Water	8260D	
LCS 240-564928/5	Lab Control Sample	Total/NA	Water	8260D	
240-181640-E-1 MS	Matrix Spike	Total/NA	Water	8260D	
240-181640-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 564955

Lab Sample ID 240-181391-2	Client Sample ID MW-96S_030223	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-564955/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-564955/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-181395-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
240-181395-E-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-181391-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_86

Lab Sample ID: 240-181391-1 Date Collected: 03/02/23 00:00

Matrix: Water

Date Received: 03/04/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	564928	HMB	EET CAN	03/10/23 20:54

Client Sample ID: MW-96S_030223 Lab Sample ID: 240-181391-2

Date Collected: 03/02/23 11:50 Matrix: Water

Date Received: 03/04/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	564928	НМВ	EET CAN	03/10/23 21:42
Total/NA	Analysis	8260D SIM		1	564955	BAJ	EET CAN	03/10/23 19:04

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-181391-1

Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Canton

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

Authority Program		Identification Number	er Expiration Da		
California	State	2927	02-27-23 *		
Connecticut	State	PH-0590	12-31-23		
Florida	NELAP	E87225	06-30-23		
Georgia	State	4062	02-27-23 *		
Illinois	NELAP	200004	07-31-23		
lowa	State	421	06-01-23		
Kentucky (UST)	State	112225	02-27-23 *		
Kentucky (WW)	State	KY98016	12-31-23		
Michigan	State	9135	02-27-23 *		
Minnesota	NELAP	039-999-348	12-31-23		
Minnesota (Petrofund)	State	3506	08-01-23		
New Jersey	NELAP	OH001	06-30-23		
New York	NELAP	10975	04-01-23		
Ohio	State	8303	02-27-23 *		
Ohio VAP	State	CL0024	02-27-23 *		
Oregon	NELAP	4062	02-28-24		
Pennsylvania	NELAP	68-00340	08-31-23		
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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 $^{^{\}star}\,\text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Eurofins Canton

Regulatory program: DW NPDES RCRA Other Information labely Regulatory program: DW NPDES RCRA Other Information labely Regulatory program: Trechomer Labely 13394 Information labely Regulatory R		Test America Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	ion Drive, Suite 200 / Brighton, MI 48116	810-229-2763	THE LEADER IN ENVIRONMENTAL TESTING
Continue	Client Contact	Regulatory program: DW	NPDES RCRA	Other	
Traple of 126 work 126 Traple of 126 work	Company Name: Arcadis	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	TestAmerica Laboratories, COC No:
Process 245-241-250 Process	Address: 28550 Cabot Drive, Suite 500	Tolenhone : 748 004.7740	Telenhone: 248.004.2240	Telephone: 130 407.0306	
The Blank Water Secretarian Compared	City/State/Zip: Novi, MI, 48377	The state of the s	Analysis lumaraning line	Analyses	
THE BLANK. So the transfer of the first of t	Phone: 248-994-2240	FIRMH: MISIOHET. HIRSARY (C. ST. CROIS. COH)			to the account
1 or	Project Name: Ford LTP Off-Site	Lien	TAT (fulfferent from below 3 weeks		Walk-in client
TRIP BLANK, & Some transferred as Sample Date Supplied Treation No. 1 and 1	Project Number: 30167538.402.04	Method of Shipment/Carrier:	l week	8	Similar oper
TRIP BLANK	PO# 30167538.402.04	Shipping/Tracking No:		85608 8 8 2 6 0 8	Job/SDG No:
TRIP BLANK		Matrix	П	ouge GE 83 CE 83	
TRIP BLANK	Sample Identification	Air Aqueous Sediment Solid	Ospec: Ospecs Naoh NaOh HCI HCI	1.1-DCE cis-1,2-D Trans-1,3 PCE 826 Vinyl Chli	Sample Specific Notes / Special Instructions:
NW 965 _ 050223	TRIP BLANK_ 86	-		× × × × ×	1 Trip Blank
Possible Heard Identification	PALU 965	150	2	XXXXXX	3 VOAs for 8260B
Skin Irritari Poison B Unknown Sample Disposal (A fee may be successed if samples are retained longer than I month) OST KOW OST KOW Company Com					
Sample Disposal (A fee may be assessed framples are retained longer than I month) Sample Disposal (A fee may be assessed framples are retained longer than I month) Sample Disposal (A fee may be assessed framples are retained longer than I month) OST ROW Company Compan					+
Skin Irriant Poison B Unknown Return to Client of Disposal By Lab Archive For I Months Company, Received by Recei					
Skin Irriant Poison B Tunknown Sample Disposal (A fee may be assessed if samples are retained longer than I month) Sample Disposal By Lab Archive For Months OST ROW Company Records #E203631 Company Records #E203631 Company Records #E203631 Company Records #E3253 1230 Received by: Company Records #E3253 1230 Received					
Skin Irriant Poison B Unknown Sample Disposal (A fee may be assessed if samples are retained longer than I month) Sample Disposal (A fee may be assessed if samples are retained longer than I month) Sample Disposal (A fee may be assessed if samples are retained longer than I month) Configuration Company: Compan				240-181391 Chain of Cu	itody
Skin Irriant Poison B Unknown Return to Clicut Pisposal (A fee may be asserted if samples are retained longer than I month) OST ROW Company: Co					
Skin Irrilant Poison B Unknown Sample Disposal (A fee may be assessed if samples are retained longer than I month) OST Company					
Company Receptors Date Time 7/13 1645 Received by Cell School Company Received by Cell School Company Receptors 3/3/3/3/123/1230 Received by Cell School Company Receptors 3/3/3/3/123/1230 Received by Cell School Company Receptors Date Time 1/3/3/123/123/123/123/1230 Received by Cell School Company Received by Cell Sc	Possible Hazard Identification Non-Hazard Flammable Sk	kin Irritant Poison B	Sample Disposal (A fee may be assess Return to Client Dispos	ed if samples are retained longer than I month) if By Lab Archive For Months	
Company RECROTS Date Time 7/13 1645 Received by Cell SOWNER Company Date Time 2/13 1230 Received by Cell SOWNER Company Date Time 2/13 1230 Received by Cell SOWNER Company Date Time 2/13 1230 Received by Cell Sowners by Company A. Date Time 2/13 1230 Received by Date Time 2/13 1230 Received by Cell Sowners by Company Date Time 2/13 1230 Received by Date Time 2/13 1230 Received by Cell Sowners by Company Date Time 2/13 1230 Received by Cell Sowners by Company Date Time 2/13 1230 Received by Cell Sowners by Company Date Time 2/13 1230 Received by Cell Sowners by Company Date Time 2/13 1230 Received by Cell Sowners by Company Date Time 2/13 1230 Received by Cell Sowners by Company Date Time 2/13 1230 Received by Cell Sowners by Company Date Time 2/13 1230 Received by Cell Sowners by Company Date Time 2/13 1230 Received by Cell Sowners by Company Date Time 2/13 1230 Received by Cell Sowners by Company Date Time 2/13 1230 Received by Cell Sowners by Company Date Time 2/13 1230 Received by Cell Sowners by Company Date Time 2/13 1230 Received by Cell Sowners by Company Date Time 2/13 1230 Received by Cell Sowners by Company Date Time 2/13 1230 Received by Cell Sowners by Company Date Time 2/13 1230 Received by Cell Sowners by Cell So	Special Instructions/QC Requirements & Comments: Sample Address: POSTD NO POST Submit all results through Cadena at itomalia@ca.Level IV Reporting requested.				
Company Records 3/2/23/123 Received by Company Company Date/The:	Relinquished by Rolo Lettellin	Date/Time	Record by	Company	
Company: Date/Time: Da	Relinquished by:			Company:	
)(Date Ti	W. T. T.		

Yes No

18. CHAIN OF CUSTODY & SAM	PLE DISCREPANCIES	additional next page	Samples processed by:
10 CALCOUR CONTINUES			
	were received a	flar the recommended hold	ling time had evnired
19. SAMPLE CONDITION Sample(s) Sample(s)	were received a	fter the recommended hold	
		were received	d in a broken container.
Sample(s)		were received	d in a broken container.
Sample(s) Sample(s) Sample(s)	were re	were received with bubble >6 mm in	d in a broken container.

Date by via Verbal Voice Mail Other

Barberton Facility

Cooler Received on

Eurofins Cooler # ____

14. Were VOAs on the COC?

Contacted PM

Concerning

15. Were air bubbles >6 mm in any VOA vials?

17. Was a LL Hg or Me Hg trip blank present?

16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # COYL

Packing material used:

COOLANT: Wet Ise

Client

WI-NC-099

DATA VERIFICATION REPORT



March 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 - Barberton

Laboratory submittal: 181391-1 Sample date: 2023-03-02

Report received by CADENA: 2023-03-16

Initial Data Verification completed by CADENA: 2023-03-16

Number of Samples:2

Sample Matrices: Water and trip blank

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 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 - Barberton

Laboratory Submittal: 181391-1

	Sample Name:	TRIP BLA	4NK_86			MW-969								
	Lab Sample ID:	2401813	3911			2401813912								
	Sample Date:	3/2/202	3			3/2/202	3							
			Report		Valid		Report		Valid					
Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier					
GC/MS VOC														
OSW-8260D														
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-Dichloroether	ne 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-8260DSIM														
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 # 240-181391-1

CADENA Verification Report: 2023-03-16

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49096R Review Level: Tier III Project: 30167538.601.01

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-181391-1 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 Collection	Ana	nalysis				
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM			
TRIP BLANK_86	240-181391-1	Water	03/02/2023		Х				
MW-96S_030223	240-181391-2	Water	03/02/2023		Х	Х			

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance ptable	Not
	No	Yes	No	Yes	Required
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		Х		Х	
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		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	Perfo Acce	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		Х		
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: Prashanth K

SIGNATURE:

DATE: March 27, 2023

PEER REVIEW: Andrew Korycinski

DATE: March 28, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

Chain of Custody Record

Too	A	
162	TAN	enco
-00	** ** *	101100

Client Contact	Regulat	ory program:			DV	V	F	PDES	3	_	RCRA		Г	Other	Г												
Company Name: Arcadis	CW + D + + +	4 - 1 - 1 - 1 - 1					- C		. 63	1.4	***				-			. 2411	- D I							TestAmerica Laboratories,	Inc.
Address: 28550 Cabot Drive, Suite 500	Client Project !	Manager: Kris	Hinsk	tey			Site C	ontac	t: Chi	rtstina	Weav	er				Lab C	ontac	t: Mil	e Del	Monico						COC No:	
Clariforn (Fig. No.) Add 40999	Telephone: 248	-994-2240					Telep	hone:	248-9	994-22	40					Telephone: 330-497-9396										1 of 1 COCs	
City/State/Zip: Novi, MI, 48377	Email: kristoff	er.hinskey@ar	cadis.	com			A	nalysi	s Tur	narou	nd Tin	Time					Analyses								For lab use only		
Phone: 248-994-2240	0 1 1			_			TAT		16	h.dan												Π				Walk-in client	
Project Name: Ford LTP Off-Site	Sampler Name	Unlier	1	-01	rei	a	TAT if different from below 3 weeks																				
Project Number: 30167538.402.04	Method of Ship		-	-		I week										SIM					Lab sampling						
PO # 30167538.402.04	Shipping/Tracking No:				1			2 da I da			W/N	-C/Grab-G		89	8260E			8260B						Job/SDG No:	П		
					Matrix		-	Contain	ners &	Prese	rvatives	-	mple	Ş	260B	E 826	OCE	_		de 8	9 826				1		
Sample Identification	Sample Date	Sample Time	- F	Aqueous	Sediment	Other:	H2SOA	HN03	NaOH	ZaAc/ NgOH	Unpres		Filtered Sample (Y / N)	Composite	1.1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride	1.4-Dioxane 8260B					Sample Specific Notes / Special Instructions:	
TRIP BLANK_ &/o				1				1					N		X	X	X	X	X	X.	1	(1)	5			1 Trip Blank	
1	3/2/23		\vdash	1	-	-	++	+	+	+		\rightarrow						^	-	-	TV.	1	1	-	-		
MW-965_030223	03/0413	1150		6	+	-	H	+	0		+		M	q	χ	X	X	7	X	X	X	-	-		-	3 VOAs for 8260B 3 VOAs for 8260B SIN	Λ
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Possible Hazard Identification Non-Hazard Flammable Skin Irri	ant Poiss	D	Unk				Sa					y be as				es are				han I						<u> </u>	\dashv
Special Instructions/OC Requirements & Comments:			Unk	nown				Ke	turn K	o Clier	H	Di:	sposa	al By	Lan		A	rchive	For	-	IV	lonths	_	_			_
Sample Address: POSTON POST K Submit all results through Cadena at jtomalia@cadenac	o.com. Cadena i	E203631																									
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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181391-1

Project/Site: Ford LTP - Off Site

Date Received: 03/04/23 08:00

Client Sample ID: TRIP BLANK_86

Lab Sample ID: 240-181391-1 Date Collected: 03/02/23 00:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 03/10/23 20:54 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 03/10/23 20:54 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 03/10/23 20:54 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 03/10/23 20:54 Trichloroethene 1.0 U 1.0 0.44 ug/L 03/10/23 20:54 Vinyl chloride 1.0 U 1.0 0.45 ug/L 03/10/23 20:54 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 62 - 137 1,2-Dichloroethane-d4 (Surr) 96 03/10/23 20:54 4-Bromofluorobenzene (Surr) 109 03/10/23 20:54 56 - 136 78 - 122 03/10/23 20:54 Toluene-d8 (Surr) 106 Dibromofluoromethane (Surr) 104 73 - 120 03/10/23 20:54

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181391-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-96S_030223

Lab Sample ID: 240-181391-2 Date Collected: 03/02/23 11:50

Matrix: Water

Date	Received:	03/04/23	08:00

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			03/10/23 19:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		66 - 120			-		03/10/23 19:04	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS
I Metilou. 344046 6260D - Volatile Ordanic Compounds by GC/M3

motiloai otto io ozooz Tolatilo	o organic compounds by comic								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/10/23 21:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/10/23 21:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/10/23 21:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/10/23 21:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/10/23 21:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/10/23 21:42	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95	62 - 137		03/10/23 21:42	1
4-Bromofluorobenzene (Surr)	109	56 ₋ 136		03/10/23 21:42	1
Toluene-d8 (Surr)	103	78 - 122		03/10/23 21:42	1
Dibromofluoromethane (Surr)	102	73 - 120		03/10/23 21:42	1