PREPARED FOR

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

Generated 3/8/2023 6:26:33 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-181120-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Canton

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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Authorization

Generated 3/8/2023 6:26:33 AM

Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)497-9396 Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-181120-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-181120-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

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

Decision Level Concentration (Radiochemistry) DLC

Estimated Detection Limit (Dioxin) EDL 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 **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

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Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-181120-1

Project/Site: Ford LTP - Off Site

Job ID: 240-181120-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-181120-1

Receipt

The samples were received on 3/1/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.2°C, 1.0°C and 3.2°C

GC/MS VOA

Method 8260D_SIM: The MS/MSD for batch 564027 was not analyzed due to an instrument malfunction.MW-127S_022423 (240-181120-2)

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: 240-181120-1

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: 240-181120-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-181120-1	TRIP BLANK_151	Water	02/24/23 00:00	03/01/23 09:50
240-181120-2	MW-127S_022423	Water	02/24/23 10:30	03/01/23 09:50

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Detection Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181120-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_151 Lab Sample ID: 240-181120-1

No Detections.

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Vinyl chloride	1.2	1.0	0.45 ug/L	1	8260D	Total/NA

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181120-1

Project/Site: Ford LTP - Off Site

Date Received: 03/01/23 09:50

Client Sample ID: TRIP BLANK_151

Lab Sample ID: 240-181120-1 Date Collected: 02/24/23 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/03/23 17:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/23 17:06	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/23 17:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/23 17:06	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/23 17:06	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/23 17:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			-		03/03/23 17:06	1
4-Bromofluorobenzene (Surr)	86		56 ₋ 136					03/03/23 17:06	1
Toluene-d8 (Surr)	94		78 - 122					03/03/23 17:06	1
Dibromofluoromethane (Surr)	96		73 - 120					03/03/23 17:06	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-181120-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-127S_022423

Lab Sample ID: 240-181120-2 Date Collected: 02/24/23 10:30

Matrix: Water

03/03/23 20:52 03/03/23 20:52

03/03/23 20:52

Date Received: 03/01/23 09:50

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Method: SW846 8260D SIM - V	/olatile Organic C	ompounds	(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			03/02/23 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		66 - 120			-		03/02/23 22:38	1
- Method: SW846 8260D - Volat	ile 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			03/03/23 20:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/23 20:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/23 20:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/23 20:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/23 20:52	1
Vinyl chloride	1.2		1.0	0.45	ug/L			03/03/23 20:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137			-		03/03/23 20:52	1

56 - 136

78 - 122

73 - 120

86

92

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-181120-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Su	ogate Recovery (Acceptance L	imits)
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-181120-1	TRIP BLANK_151	107	86	94	96	
240-181120-2	MW-127S_022423	108	86	92	100	
240-181130-A-5 MS	Matrix Spike	111	91	97	94	
240-181130-A-5 MSD	Matrix Spike Duplicate	102	90	93	90	
LCS 240-564175/5	Lab Control Sample	106	91	93	99	
MB 240-564175/8	Method Blank	108	88	91	95	

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)	
240-181120-2	MW-127S_022423	77	
LCS 240-564027/4	Lab Control Sample	85	
MB 240-564027/6	Method Blank	83	

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

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Job ID: 240-181120-1

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

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

Lab Sample ID: MB 240-564175/8

Matrix: Water

Analysis Batch: 564175

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/03/23 15:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/23 15:00	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/23 15:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/23 15:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/23 15:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/23 15:00	1

М	B MB				
Surrogate %Recover	y Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	8	62 - 137		03/03/23 15:00	1
4-Bromofluorobenzene (Surr)	8	56 ₋ 136		03/03/23 15:00	1
Toluene-d8 (Surr)	1	78 - 122		03/03/23 15:00	1
Dibromofluoromethane (Surr)	5	73 - 120		03/03/23 15:00	1

Lab Sample ID: LCS 240-564175/5

Matrix: Water

Analysis Batch: 564175

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	20.0	17.8		ug/L		89	63 - 134
cis-1,2-Dichloroethene	20.0	18.5		ug/L		92	77 - 123
Tetrachloroethene	20.0	20.2		ug/L		101	76 - 123
trans-1,2-Dichloroethene	20.0	20.7		ug/L		103	75 - 124
Trichloroethene	20.0	19.3		ug/L		96	70 - 122
Vinyl chloride	20.0	20.6		ug/L		103	60 - 144

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		62 - 137
4-Bromofluorobenzene (Surr)	91		56 ₋ 136
Toluene-d8 (Surr)	93		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Analysis Batch: 564175

Lab Sample ID: 240-181130-A-5 MS Client Sample ID: Matrix Spike **Matrix: Water Prep Type: Total/NA**

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	140	U	2860	2420		ug/L		85	56 - 135	
cis-1,2-Dichloroethene	5500		2860	7950		ug/L		86	66 - 128	
Tetrachloroethene	140	U	2860	2910		ug/L		102	62 - 131	
trans-1,2-Dichloroethene	160		2860	3040		ug/L		101	56 - 136	
Trichloroethene	1300		2860	3920		ug/L		93	61 - 124	
Vinyl chloride	2300		2860	5280		ug/L		103	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		62 - 137
4-Bromofluorobenzene (Surr)	91		56 - 136
Toluene-d8 (Surr)	97		78 - 122

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Job ID: 240-181120-1

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

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

Lab Sample ID: 240-181130-A-5 MS **Matrix: Water**

Analysis Batch: 564175

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 94 73 - 120

Lab Sample ID: 240-181130-A-5 MSD

Matrix: Water

Analysis Batch: 564175

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MSD MSD %Rec RPD Sample Sample Spike RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Limit 1,1-Dichloroethene 140 2860 2370 ug/L 83 56 - 135 2 26 cis-1,2-Dichloroethene 5500 2860 7820 81 66 - 128 ug/L 2 14 Tetrachloroethene 140 U 2860 2800 ug/L 98 62 - 131 20 trans-1,2-Dichloroethene 2860 ug/L 160 2910 96 56 - 136 15 Trichloroethene 1300 2860 3720 ug/L 86 61 - 124 5 15 Vinyl chloride 2300 2860 5200 ug/L 100 43 - 157 2 24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		62 - 137
4-Bromofluorobenzene (Surr)	90		56 - 136
Toluene-d8 (Surr)	93		78 - 122
Dibromofluoromethane (Surr)	90		73 - 120

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

Lab Sample ID: MB 240-564027/6

Matrix: Water

Analysis Batch: 564027

Prep Type: Total/NA

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Result Qualifier Analyte RL **MDL** Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 03/02/23 12:56

MB MB

MR MR

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 83 66 - 120 03/02/23 12:56

Lab Sample ID: LCS 240-564027/4

Matrix: Water

Analysis Batch: 564027

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 10.0 10.5 ug/L 105 80 - 122

LCS LCS

%Recovery Qualifier Surrogate Limits 66 - 120 1,2-Dichloroethane-d4 (Surr) 85

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181120-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 564027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-181120-2	MW-127S_022423	Total/NA	Water	8260D SIM	
MB 240-564027/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-564027/4	Lab Control Sample	Total/NA	Water	8260D SIM	

Analysis Batch: 564175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-181120-1	TRIP BLANK_151	Total/NA	Water	8260D	<u> </u>
240-181120-2	MW-127S_022423	Total/NA	Water	8260D	
MB 240-564175/8	Method Blank	Total/NA	Water	8260D	
LCS 240-564175/5	Lab Control Sample	Total/NA	Water	8260D	
240-181130-A-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-181130-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-181120-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_151

Lab Sample ID: 240-181120-1 Date Collected: 02/24/23 00:00

Matrix: Water

Date Received: 03/01/23 09:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	564175	SAM	EET CAN	03/03/23 17:06

Client Sample ID: MW-127S_022423 Lab Sample ID: 240-181120-2

Date Collected: 02/24/23 10:30 Matrix: Water

Date Received: 03/01/23 09:50

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	564175	SAM	EET CAN	03/03/23 20:52
Total/NA	Analysis	8260D SIM		1	564027	BAJ	EET CAN	03/02/23 22:38

Laboratory References:

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

3/8/2023

Eurofins Canton

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181120-1 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	Expiration Date
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

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

Eurofins Canton

Client Contact	Regula	Regulatory program:		WQ _	_	NPDES	L	RCRA	0	Other										
Company Name: Arcadis																		Test/	TestAmerica Laboratories,	ries,
Address 1966 Calve Daire Cuies 600	Client Project Manager:	Manager: Kris	Kris Hinskey		is_	e Contac	Site Contact: Christina Weaver	Veaver			ger I	Lab Contact: Mike DelMonico	Mike	DelMon	nico			COC No:	No:	
Address: 28550 Cabot Drive, Sune 500	Telephone: 248-994-2240	1.994-2240			۴	lephone:	Telephone: 248-994-2240				Telep	Telephone: 330-497-9396	30-497	-9396				μ		П
City/State/Zlp: Novi, MI, 48377	Email: kristof	Email: kristoffer hinskev@arcadis.com	adis.con		+	Analysi	Analysis Turnaround Him	Time		-			1	Analyse	vses			For la	for lab use only	ر دور دور
Phone: 248-994-2240					+				_	L			H	\vdash	L					
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Possible Bererd Identification					+	Sample	Sample Disnosal (A fee may be assessed if samples are retained longer than month	- may be	9885586		20 20 20 20 20 20 20 20 20 20 20 20 20 2	retain	- John Po	- 5		=	7	-		
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TestAmer

Chain of Custody Record

1		Login #:_	IXIIA	<u> </u>
Client ARCAD Site Na	ime		Cooler unp	packed by:
	1013 1-23	X	MU	Por
FedEx: 1st Grd Exp UPS FAS Clipper Client D		Courier Othe	-	
Receipt After-hours: Drop-off Date/Time		ge Location		
Eurofins Cooler # 70 Foam Box Client Co		ther		
Packing material used Bubble Wrap Foam P	lastic Bag None	Other		
COOLANT: Wet Ice Blue Ice Dry Ice				
1. Cooler temperature upon receipt		itiple Cooler Form		
IR GUN # IR-13 (CF -0.2 °C) Observed Cooler Te		ected Cooler Te	7	°C
IR GUN # IR-16 (CF -0.1°C) Observed Cooler Te IR GUN # IR-17 (CF -0.3°C) Observed Cooler Te		ected Cooler Te		č
2. Were tamper/custody seals on the outside of the cooler		-		Tests that are not
-Were the seals on the outside of the cooler(s) signed	& dated?		No NA	checked for pH by
-Were tamper/custody seals on the bottle(s) or bottle		Yes		Receiving:
-Were tamper/custody seals intact and uncompromise	ed?		No NA	VOAs
3. Shippers' packing slip attached to the cooler(s)?		Yes		Off and Grease
4. Did custody papers accompany the sample(s)?5. Were the custody papers relinquished & signed in the accompany.	nanariete place?	(G)		TOC
6. Was/were the person(s) who collected the samples clear		- Contraction of the Contraction		
7. Did all bottles arrive in good condition (Unbroken)?	,	1		
8. Could all bottle labels (ID/Date/Time) be reconciled wi	th the COC?	_ Ye		
9. For each sample, does the COC specify preservatives	(AN), # of container			ab/comb(Y)N)?
10. Were correct bottle(s) used for the test(s) indicated?	•			
11. Sufficient quantity received to perform indicated analys 12. Are these work share samples and all listed on the COC		Yes		
If yes, Questions 13-17 have been checked at the origin		10	100	
13. Were all preserved sample(s) at the correct pH upon rec		Yes 1	No (NA) pH	Strip Lot# HC203864
14. Were VOAs on the COC?		OP 1		
	Larger than this.		NO NA	
16. Was a VOA trip blank present in the cooler(s)? Trip B	lank Lot Abvered	कि प्रधा	40	*
17. Was a LL Hg or Me Hg trip blank present?		XG3 1	NO.	
Contacted PM Date I	ýv	via Verbal Voic	e Mail Other	r
Concerning				
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCE	TPS Dadditional	nert page S	amples proce	sed by:
Carlor a contort a chill as smokes have		anni page		
· · · · · · · · · · · · · · · · · · ·				
19. SAMPLE CONDITION				
Sample(s) were rece	ived after the recomm	nended holding	time had expi	red.
Sample(s)				
Sample(s)w	ere received with bubl	ble >6 mm in di	ameter. (Noti	fy PM)
20. SAMPLE PRESERVATION				
Sample(s)		Home frether	nreconned in	the laboratory.
Sample(s) Time preserved: Preservative(s) added/Lot nu	mber(s):	were number	hieseiven m	all modelory.
VOA Sample Preservation - Date/Time VOAs Frozen:				

1277 BIC AAA

Login #: 181120

	Eurofins - Canto	on Sample Receipt I	Multiple Cooler Form	
Cooler Description	IR Gun#	Observed	Corrected	Coolant
(Circle)	(Circle)	Temp °C	Temp °C	(Circle)
Eg Client Box Other	IR-13 JR-16 IR-17	4.0	02	Wet Ice Blue Ice Dry Ice Water None
Client Box Other	TR-13 /R-16 IR-17	3.4	3.2	Wet ice Blue ice Dry ice
EC Client Box Other	IR-13 JR-16 IR-17	1.2	1.0	Vet ice Blue ice Dry ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Sive ice Dry ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Sive ice Dry ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
EC Client Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice Water None
			☐ See Ten	nperature Excursion Form

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

DATA VERIFICATION REPORT



March 08, 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: 181120-1 Sample date: 2023-02-24

Report received by CADENA: 2023-03-08

Initial Data Verification completed by CADENA: 2023-03-08

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

GCMS VOC SIM QC batch MS/MSD issues as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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

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

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI $48108\ 517\text{-}819\text{-}0356$

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a 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: 181120-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401813 2/24/20	L201	-		MW-127 2401817 2/24/20	23		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260										
	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		1.2	1.0	ug/l	
OSW-8260	<u>DDSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-181120-1

CADENA Verification Report: 2023-03-08

Analyses Performed By: Eurofins North Canton, Ohio

Report # 48926R Review Level: Tier III Project: 30167538.601.01

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-181120-1 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		Analysis				
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM			
TRIP BLANK_151	240-181120-1	Water	02/24/23		Х				
MW-127S_022423	127S_022423 240-181120-2		02/24/23		X	X			

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
Sample receipt condition		Х		Х	
2. Requested analyses and sample results		X		X	
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 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.

All identified compounds met the specified criteria.

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 eptable	Not
	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: Hrishikesh Upadhyaya

SIGNATURE:

DATE: March 14, 2023

PEER REVIEW: Andrew Korycinski

DATE: March 15, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record



TestA	merica Labora	tory location:	Brig	hton —	10448	Citatio	n Drive,	Suite	200	/ Brig	hton, M	1 48116	5 / 81	0-229	-2763						_			f e	HE LEADER IN ENVIRONMENTAL TES.
Client Contact	Regulat	tory program:	:	Г	DW		□ NE	PDES		F	RCRA	-	Otl	her											
Company Name: Arcadis	Clima Duning	V	10				en.c.	-44	Ch	1	35/				h . L	Contact: Mike DelMonico					TestAmerica Laboratories, Inc.				
Address: 28550 Cabot Drive, Suite 500	Client Project !	vianager: Kris	rinsi	æy			Site Co	ntact:	: Car	tstina	Weave				Lab Contact: Wine Delivionico						COC No:				
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240					Teleph	Telephone: 248-994-2240					Telephone: 330-497-9396						1 of 1 COCs						
City/State/24p: 18081, 511, 46577	Email: kristoff	er.hinskey@ar	cadis	.com			Analysis Turnaround Time					Analyses						For lab use only							
Phone: 248-994-2240	0 1 1						TAT if different from below												T			Walk-in client			
Project Name: Ford LTP Off-Site	Sampler Name	FOSTIN	_				3 weeks														Walk-III Clicin				
Project Number: 30167538.402.04	Method of Ship		_		_		10 day 2 weeks									5					Lab sampling				
							- 1 days 2 1					80B	-		88	SS									
PO # 30167538.402.04	Shipping/Track	ding No:					Containers & Preservatives			82606	SE 82			e 8260B	8260					Job/SDG No:					
				M	atrix		C	ontaine	ers &	Prese	rvatives	- 3		1 2	Se	2-D	808	808	phole	cane					
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Solid	Other:	H2SO4	HCI	NaOH	ZaAc	Unpres Other:	1110	Compo	1.1-DCE	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride	1.4-Dioxane 8260B SIM					Sample Specific Notes / Special Instructions:
TRIP BLANK_ 151	-			1				1				N	1 G	X	X	X	X	X	X					Г	1 Trip Blank
MW-127s _ 022423	2-24-23	1630	Г	6				6				^	16	X	×	×	X	X	X	X					3 VOAs for 8260B 3 VOAs for 8260B SIM
\$ A																									
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												$\perp$													
Possible Hazard Identification  ✓ Non-Hazard Flammable Skin Irrita	nt   Poise	on B	Unl	nown				Ren			fee may	Disp					Archiv				in) Ionths				
Special Instructions/QC Requirements & Comments: Sample Address: 34424 BEALON																									
Submit all results through Cadena at jtomalia@cadenaco.	com. Cadena f	E203631							17																
Level IV Reporting requested,	1-			Ir. m					In									Ic.							
Relinquished by: JOE FOJTIN	Company:	is			24-2		130	0			ועו	co	D	51	IRA	46		Con	pany:	rca	di.	4		+ 4"	2.34 130 / 1300
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# **Client Sample Results**

Client: ARCADIS U.S., Inc. Job ID: 240-181120-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_151

Lab Sample ID: 240-181120-1 Date Collected: 02/24/23 00:00 **Matrix: Water** 

Date Received: 03/01/23 09:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/03/23 17:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/23 17:06	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/23 17:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/23 17:06	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/23 17:06	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/23 17:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			-		03/03/23 17:06	1
4-Bromofluorobenzene (Surr)	86		56 ₋ 136					03/03/23 17:06	1
Toluene-d8 (Surr)	94		78 - 122					03/03/23 17:06	1
Dibromofluoromethane (Surr)	96		73 - 120					03/03/23 17:06	1

Client Sample ID: MW-127S_022423

Date Collected: 02/24/23 10:30

D

Date Received: 03/01/23 09:50								
Method: SW846 8260D SIM - Vo	olatile Orga	nic Compou	ınds (GC/M	S)				
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86 ug/L	<del></del>		03/02/23 22:38	1

Analyzed Surrogate %Recovery Qualifier Limits Prepared Dil Fac 66 - 120 1,2-Dichloroethane-d4 (Surr) 77 03/02/23 22:38

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/03/23 20:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/23 20:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/23 20:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/23 20:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/23 20:52	1
Vinyl chloride	1.2		1.0	0.45	ug/L			03/03/23 20:52	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137	<del>-</del>		03/03/23 20:52	1
4-Bromofluorobenzene (Surr)	86		56 - 136			03/03/23 20:52	1
Toluene-d8 (Surr)	92		78 - 122			03/03/23 20:52	1
Dibromofluoromethane (Surr)	100		73 - 120			03/03/23 20:52	1

Lab Sample ID: 240-181120-2

**Matrix: Water**