PREPARED FOR

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

Generated 12/6/2022 2:27:42 PM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-176836-1

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.

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

Authorization

Generated 12/6/2022 2:27:42 PM

Authorized for release by Ann Maddux, Project Management Assistant I ann.maddux@et.eurofinsus.com Designee for Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com

n Mllx

(330)497-9396

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-176836-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	15
Lab Chronicle	16
Certification Summary	17
Chain of Custody	18

4

5

7

8

10

11

13

Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 240-176836-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

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 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

12

13

Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-176836-1

Project/Site: Ford LTP - Off Site

Job ID: 240-176836-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-176836-1

Receipt

The samples were received on 11/19/2022 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 3.1°C

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

1

4

5

0

0

9

10

11

13

Method Summary

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

Job ID: 240-176836-1

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

4

7

9

10

12

13

Sample Summary

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

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 240-176836-1
 TRIP BLANK_180
 Water
 11/17/22 00:00
 11/19/22 08:00

 240-176836-2
 MW-182S_111722
 Water
 11/17/22 11:20
 11/19/22 08:00

1

Job ID: 240-176836-1

6

Q

9

10

19

13

Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-176836-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_180 Lab Sample ID: 240-176836-1

No Detections.

No Detections.

6

4

5

6

1

9

10

12

13

Client Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 240-176836-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_180

Date Collected: 11/17/22 00:00 Date Received: 11/19/22 08:00 Lab Sample ID: 240-176836-1

Matrix: Water

Method: SW846 8260D - Vo Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L		-	11/28/22 23:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/28/22 23:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/28/22 23:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/28/22 23:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/28/22 23:18	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/28/22 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137					11/28/22 23:18	1
4-Bromofluorobenzene (Surr)	100		56 ₋ 136					11/28/22 23:18	1
Toluene-d8 (Surr)	104		78 - 122					11/28/22 23:18	1
Dibromofluoromethane (Surr)	98		73 - 120					11/28/22 23:18	1

Client Sample Results

Job ID: 240-176836-1 Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-176836-2 Client Sample ID: MW-182S_111722

Date Collected: 11/17/22 11:20

Matrix: Water

Date Received: 11/19/22 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/28/22 20:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 120					11/28/22 20:56	1
Method: SW846 8260D - V		•	•			_			
Method: SW846 8260D - Vo Analyte		Compound Qualifier	ds by GC/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	•			<u>D</u>	Prepared	Analyzed 11/29/22 02:40	Dil Fac
Analyte	Result	Qualifier U	RL	MDL	ug/L	<u> </u>	Prepared		Dil Fac
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U U		MDL 0.49	ug/L ug/L	<u> </u>	Prepared	11/29/22 02:40	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	1.0 1.0	Qualifier U U U	RL 1.0 1.0	0.49 0.46 0.44	ug/L ug/L	<u>D</u>	Prepared	11/29/22 02:40 11/29/22 02:40	Dil Fac 1 1 1 1

Vinyl chloride	1.0 U	1.0	0.45 ug/L		11/29/22 02:40	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92	62 - 137			11/29/22 02:40	1
4-Bromofluorobenzene (Surr)	99	56 ₋ 136			11/29/22 02:40	1
Toluene-d8 (Surr)	103	78 - 122			11/29/22 02:40	1
Dibromofluoromethane (Surr)	99	73 - 120			11/29/22 02:40	1

12/6/2022

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-176836-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surre	ogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-176836-1	TRIP BLANK_180	92	100	104	98
240-176836-2	MW-182S_111722	92	99	103	99
240-176837-F-2 MS	Matrix Spike	83	100	105	97
240-176837-F-2 MSD	Matrix Spike Duplicate	83	100	104	97
LCS 240-553655/3	Lab Control Sample	83	100	105	98
MB 240-553655/4	Method Blank	91	101	104	100

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)	
240-176836-2	MW-182S_111722	102	
240-176838-B-2 MS	Matrix Spike	98	
240-176838-B-2 MSD	Matrix Spike Duplicate	102	
LCS 240-553632/3	Lab Control Sample	96	
MB 240-553632/4	Method Blank	102	

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

Client: ARCADIS U.S., Inc. Job ID: 240-176836-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-553655/4

Matrix: Water

Analysis Batch: 553655

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			11/28/22 19:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/28/22 19:21	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/28/22 19:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/28/22 19:21	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/28/22 19:21	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/28/22 19:21	1

	MB MB				
Surrogate	%Recovery Qualif	ier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91	62 - 137		11/28/22 19:21	1
4-Bromofluorobenzene (Surr)	101	56 ₋ 136		11/28/22 19:21	1
Toluene-d8 (Surr)	104	78 - 122		11/28/22 19:21	1
Dibromofluoromethane (Surr)	100	73 - 120		11/28/22 19:21	1
4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)	104	56 - 136 78 - 122		11/28/22 19:21 11/28/22 19:21	

Lab Sample ID: LCS 240-553655/3

Matrix: Water

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

Analyte

Analysis Batch: 553655

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

60 - 144

LCS LCS %Rec Spike Added Result Qualifier Unit D %Rec Limits 25.0 27.9 ug/L 112 63 - 134 25.0 24.5 ug/L 98 77 - 123 25.0 23.9 96 76 - 123 ug/L 75 - 124 ug/L 25.0 23.1 93 25.0 22.6 ug/L 91 70 - 122 104 25.0

ug/L

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

Lab Sample ID: 240-176837-F-2 MS

Matrix: Water

Analysis Batch: 553655

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	31.4		ug/L		126	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	24.6		ug/L		98	66 - 128
Tetrachloroethene	1.0	U	25.0	25.8		ug/L		103	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	23.5		ug/L		94	56 - 136
Trichloroethene	1.0	U	25.0	23.3		ug/L		93	61 - 124
Vinyl chloride	1.0	U	25.0	24.3		ug/L		97	43 - 157

26.1

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	105		78 ₋ 122

Eurofins Canton

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-176836-1

Prep Type: Total/NA

Client Sample ID: Matrix Spike

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

Lab Sample ID: 240-176837-F-2 MS

Matrix: Water

Analysis Batch: 553655

MS MS

%Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 97 73 - 120

Lab Sample ID: 240-176837-F-2 MSD

Matrix: Water

Analysis Batch: 553655

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	25.0	29.8		ug/L		119	56 - 135	5	26
cis-1,2-Dichloroethene	1.0	U	25.0	23.3		ug/L		93	66 - 128	6	14
Tetrachloroethene	1.0	U	25.0	24.8		ug/L		99	62 - 131	4	20
trans-1,2-Dichloroethene	1.0	U	25.0	22.4		ug/L		90	56 - 136	5	15
Trichloroethene	1.0	U	25.0	22.6		ug/L		90	61 - 124	3	15
Vinyl chloride	1.0	U	25.0	24.8		ug/L		99	43 - 157	2	24

MSD MSD %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 83 62 - 137 4-Bromofluorobenzene (Surr) 100 56 - 136 Toluene-d8 (Surr) 104 78 - 122 Dibromofluoromethane (Surr) 97 73 - 120

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

Lab Sample ID: MB 240-553632/4

Matrix: Water

Analyte

1,4-Dioxane

Analysis Batch: 553632

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

Client Sample ID: Lab Control Sample

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 2.0 11/28/22 16:04 2.0 U 0.86 ug/L

MB MB

%Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 102 66 - 120 11/28/22 16:04

Lab Sample ID: LCS 240-553632/3

Matrix: Water

Prep Type: Total/NA **Analysis Batch: 553632** Spike LCS LCS %Rec

Added Result Qualifier Limits Analyte Unit D %Rec 1,4-Dioxane 10.0 9.87 ug/L 99 80 - 122

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 96 66 - 120

Lab Sample ID: 240-176838-B-2 MS

Client Sample ID: Matrix Spike **Matrix: Water** Prep Type: Total/NA **Analysis Batch: 553632**

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Unit Limits Analyte %Rec 1,4-Dioxane 2.0 U 10.0 9.65 ug/L 96 51 - 153

Eurofins Canton

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-176836-1

Project/Site: Ford LTP - Off Site

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

	MS	MS									
Surrogate	%Recovery		Limits								
1,2-Dichloroethane-d4 (Surr)	98		66 - 120								
Lab Sample ID: 240-1768 Matrix: Water Analysis Batch: 553632	38-B-2 MSD					Client	Samp	le ID: N	Matrix Spil Prep Ty		
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
1,4-Dioxane	2.0	U	10.0	9.68	-	ug/L		97	51 - 153	0	16
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1 2-Dichloroethane-d4 (Surr)	102		66 120								

2

4

E

6

9

10

12

13

QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-176836-1

GC/MS VOA

Analysis Batch: 553632

Lab Sample ID 240-176836-2	Client Sample ID MW-182S 111722	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-553632/4	— Method Blank	Total/NA	Water	8260D SIM	
LCS 240-553632/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-176838-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-176838-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 553655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176836-1	TRIP BLANK_180	Total/NA	Water	8260D	
240-176836-2	MW-182S_111722	Total/NA	Water	8260D	
MB 240-553655/4	Method Blank	Total/NA	Water	8260D	
LCS 240-553655/3	Lab Control Sample	Total/NA	Water	8260D	
240-176837-F-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-176837-F-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

3

4

5

7

8

4.6

11

12

13

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-176836-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_180

Lab Sample ID: 240-176836-1 Date Collected: 11/17/22 00:00

Matrix: Water

Date Received: 11/19/22 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	553655	CS	EET CAN	11/28/22 23:18

Client Sample ID: MW-182S_111722 Lab Sample ID: 240-176836-2

Date Collected: 11/17/22 11:20 **Matrix: Water**

Date Received: 11/19/22 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	553655	CS	EET CAN	11/29/22 02:40
Total/NA	Analysis	8260D SIM		1	553632	CS	EET CAN	11/28/22 20:56

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: 240-176836-1

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
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23
Kentucky (WW)	State	KY98016	12-31-22
Minnesota	NELAP	039-999-348	12-31-22
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	02-27-23
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

3

4

6

R

9

10

12

13

MICHIGAN 190		Chain of Custody Record		TestAmerica
	Brighton —	10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	53	THE LEADER IN ENVIRORMENTAL TEST
Client Contact	Regulatory program: DW	NPDES RCRA Other		
Address 1985 Ch. A. Shire Co. L. Co.	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
Addi 535. 20250 Cabbi Di IVE, Sulle 2000	Telephone: 248-994-2240	Telephone: 248-994-2293 T.	Telephone: 330-497-9396	
City/State/Zip: Novi, MI, 48377	7			1 of 1 COCs
Phone: 248-994-2240		Aller and the control of the control	Anaiyses	For lab use only
Project Name: Ford L.TP Osf-Site	Cardo age C	FAT if different from below 3 weeks		Walk-in client
Project Number: 30146655.402.04	Method of Shipment/Carrier:	l week		Lab sampling
PO#30146655.402.04	Shipping/Tracking No:	Grab	82608	Job/SDG No:
	Matrix	500E	B B DCE	
Sample Identification	Sample Date Sample Time Air Schlingerit	Combosite Combosite Cipher: Combosite Combosite Combosite Composite Composit	Trans-1,2 Trans-1,2 Trans-1,2 TCE 8260B Vinyl Chlor O'- TCE 8260B	Sample Specific Notes / Special Instructions:
TRIP BLANK_ $eta_{\mathcal{O}}$	1	- X B N	× × × ×	1 Trip Blank
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3 VOAs for 8260B
22 LIII - 5 221 - MM	0 02:11 21/1/11	× × × × × × × × × × × × × × × × × × ×	X	3 VOAs for 8260B SIM
			240-176836 Chain of Custody	
				_
Possible Hwzard Identification Non-Hazard Flammable Skin	Skin Irritant Poison B Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than I month) Return to Client Disposal By Lab Archive For Mon	are retained longer than 1 month) Archive For Months	
Special Instructions/QC Requirements & Comments:				
oanippe Audress. Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	naco.com. Cadena #E203631 SY766	standish	+2 (
Relinquished by: Jungh Jugan	Date Time:	Received by:	Company:	Date/Time:
Relinquished by:	Date/Time:	Received hy:	Company:	P.177
Relinquished by:). change	Date/Time:	Received in Lat	Company	
©2008 TeetAmerica Laboratories Inc. All rights reserved				

were further preserved in the laboratory.

Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen:

Sample(s)

Time preserved:

DATA VERIFICATION REPORT



December 06, 2022

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: 30146655.402.04 off-site

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Barberton

Laboratory submittal: 176836-1 Sample date: 2022-11-17

Report received by CADENA: 2022-12-06

Initial Data Verification completed by CADENA: 2022-12-06

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 - Barberton

Laboratory Submittal: 176836-1

	•			TRIP BLANK_180				MW-182S_111722			
	Lab Sample ID:	2401768	3361			2401768	3362				
	Sample Date:	11/17/2	022			11/17/2	022				
			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-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-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 # 240-176836-1

CADENA Verification Report: 2022-12-06

Analyses Performed By:

TestAmerica North Canton, Ohio

Report # 47949R Review Level: Tier III Project: 30146655.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-176836-1 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) includes 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	lysis	
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM	
TRIP BLANK_180	240-176836-1	Water	11/17/22		Х		
MW-182S_111722	240-176836-2	Water	11/17/22		X	X	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Repo	orted		mance ptable	Not Required	
	No	Yes	No	Yes	Required	
Sample receipt condition		Х		Х		
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		X		
8. Sample preservation verification (as applicable)		Х		Х		
Sample preparation/extraction/analysis dates		Х		X		
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.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - 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, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compound	Criteria
TRIP BLANK_180 MW-182S 111722	Initial Calibration Verification %D	1,1-Dichloroethene	30.8%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
	RRF <0.05	Non-detect	R
Initial and Continuing Calibration	KKF <0.05	Detect	J
Campranon	RRF <0.01 ¹	Non-detect	R

Initial/Continuing	Criteria	Sample Result	Qualification
		Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action
	RRF >0.05 01 RRF >0.01	Detect	No Action
	%RSD > 20% or a correlation coefficient	Non-detect	UJ
Initial Calibration	<0.99	Detect	J
miliai Calibration	%RSD > 90%	Non-detect	R
	70K3D > 9070	Detect	J
	0/ D > 200/ (increase in consistinity)	Non-detect	No Action
	%D >20% (increase in sensitivity)	Detect	J
Initial / Continuing	0/ D > 200/ (daaraaaa in aanaitii itu)	Non-detect	UJ
Calibration	%D >20% (decrease in sensitivity)	Detect	J
	0/ D > 000/ (in any and ideas are in a smalth ith)	Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

Note:

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.

¹RRF of 0.01 only applies to compounds which are typically poor responding compounds

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance eptable	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	
Initial / Continuing calibration %Ds		Х	Х		
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		X		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: Vinayak Hegde

SIGNATURE:

DATE: December 15, 2022

PEER REVIEW: Andrew Korycinski

DATE: December 17, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

Chain of Custody Record

Te	st₽	YTY	ne	ric	C
		-			Ĭ

Te	estAmerica Labora	itory location:	Brig	hton -	- 104	18 Citatio	n Drive	e, Sui	ite 20	0 / Br	rightor	n, MI 4	8116	/ 810	-229-	2763									110	LEADER IN ENVIRONMENTAL	TESTING
Client Contact	Regula	tory program:			D D	N		NPDE	es		RCI	RA	Г	Othe	er						_						
Company Name: Arcadis	Client Project	Manager: Kris	Himel				leta- di	· · · · ·																		TestAmerica Laboratorie	es, Inc.
Address: 28550 Cabot Drive, Suite 500			HIIISI	ne y			Site C	onta	et: Un	iristii	na we	aver				Lab	ontac	et: Mil	ke Dei	Monic	0					COC No:	
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240					Telep	hone	: 248-	994-2	2293					Telep	hone:	330-4	97-93	96							
	Email: kristoff	er.hinskey@ar	cadis	.com			A	nalys	sis Tu	rnaro	und I	ime			_				A	nalvs	es				-	1 of 1 COC: For lab use only	S
Phone: 248-994-2240	2						21.4.21													Ť		П	T				
Project Name: Ford LTP Off-Site	Sampler Name				1.1	1.0				3 v	veeks															Walk-in client	94111
Project Number: 30146655.402.04	Method of Ship	ment/Carrier:	M	iai	en	LV	10	day		2 w	veeks veek										5					Lab sampling	
PO # 30146655.402.04							1		r	2 d	ays		2 ×	ab=C		_	90B			8	Sign						
FO # 30140055.402.04	Shipping/Track	ding No:								l d	lay		Sample (Y / N)	Composite=C / Grab=G	8	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B			8260B	8260B SIM					Job/SDG No:	R.
				· ·	/atrix			Conta	iners &	& Pres	servati	ves	1	te=C	8260	CE 8	-DC	8	8	oride	ne 8						
				sa l	leat	L .	7		-	.	2		red	posi	CE	.2-D	5-1,2	826	8260B	Chi	ioxa					Sample Specific Notes	s /
Sample Identification	Sample Date	Sample Time	Ąį	Aqueous	Solid	Other	HZSO4	HNO3	HCI NaOH	ZnAc	Unpres	Other:	Filtered	Com	1,1-DCE 8260B	cis-1	Trans	PCE 8260B	TCE	Vinyl Chloride	1,4-Dioxane					Special Instructions:	:
TRIP BLANK_180				1				1	1				N	G	X	Х	X	Х	X	X						1 Trip Blank	
TRIP BLANK_180 MW - 1825_1117 22	ulnla	11:20		6				L	0				C	6	X	×	×	X	X	X	X					3 VOAs for 8260B 3 VOAs for 8260B S	SIM
				П									T														
	-		\vdash	\vdash	+	+	\vdash	+	+	+	+	_	+	\vdash			_	-			-	-	-				
			\vdash		+			+	+	+-	+		+					_	-			-	-	\vdash	Н		
	-		L	\vdash	+	+	\vdash	+	_	_	-		_				- 1	Hillian			1 8 1 1 1 1	I Bailtean	 	 	11121 11	11.1801	
								\top																			
			_	\vdash	\perp	1	\vdash	_	_	\perp	<u> </u>		_	Ш			- 11										
						1											2	40-17	7683	6 Ch	ain d	of Cu	stod	у	******		
				П									\top						ı			1	,				
Possible Hazard Identification ✓ Non-Hazard Flammable Skin Ir	ritant Poise	- D		nown			Sai					may be				les are				han I			1		ш		\dashv
Special Instructions/QC Requirements & Comments:	roise Poise	on B	Unk	nown	_	_		Re	eturn t	o Cho	ent	~	Dispos	sal By	Lah	_	Α	rchive	For !		M	onths	_				
Sample Address:			2	d-	71	06		<	40				Λ	1	- 1			_	7								
Submit all results through Cadena at jtomalia@cadena Level IV Reporting requested,	ico.com. Cadena #	E203631	2	(1 (00		-	7	U	CY	0		1	1	\cap		2	1								
Relinquished by:	Company:	(&	7	Date/	ime:			_		ceive			_						Com	anv.					_	Date/Time:	
Jayon Japale	Mod	15 Hora	/		17/	22	16	:10			DV	1 e	DIO	1	VZ	ma	30		4	1	ام	کاب				11/17/72 16	110
Relinquished by:	Company:	ME		Date/	ime:	127	094	45	- Re	ceive	hy:[^	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			0		Comp	pany:		_ 1				D. a. Crim	45
Relinquished by:	Company:	مسلما	-	Date/	ime:		UI	10	Re	ceive	d in I	aborat	tory by	v:	-				Com	pany:		VT					
1. Hail	EE	14		11	-12	-27	10	02			~	Ins	نسلا	1.					E	E						11/19/22 85	00
J. Harl 11-18-22 1002 Model 156 11/19																											









Client Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 240-176836-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_180

Date Collected: 11/17/22 00:00 Date Received: 11/19/22 08:00 Lab Sample ID: 240-176836-1

Matrix: Water

Method: SW846 8260D - Vo Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L		<u> </u>	11/28/22 23:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/28/22 23:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/28/22 23:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/28/22 23:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/28/22 23:18	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/28/22 23:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137					11/28/22 23:18	1
4-Bromofluorobenzene (Surr)	100		56 ₋ 136					11/28/22 23:18	1
Toluene-d8 (Surr)	104		78 - 122					11/28/22 23:18	1
Dibromofluoromethane (Surr)	98		73 - 120					11/28/22 23:18	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-176836-1

Project/Site: Ford LTP - Off Site

Dibromofluoromethane (Surr)

Client Sample ID: MW-182S_111722 Lab Sample ID: 240-176836-2

Date Collected: 11/17/22 11:20

Matrix: Water

11/29/22 02:40

Date	Received:	11/19/22	08:00

Method: SW846 8260D SIM - \	/olatile Orga	anic Comp	ounds (GC/M	IS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/28/22 20:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		66 - 120					11/28/22 20:56	1

1,2-Dichloroethane-d4 (Surr)	102		66 - 120					11/28/22 20:56	1
- Method: SW846 8260D - Vo	olatile Organic	Compound	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/29/22 02:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/29/22 02:40	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/29/22 02:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/29/22 02:40	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/29/22 02:40	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/29/22 02:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137			-		11/29/22 02:40	1
4-Bromofluorobenzene (Surr)	99		56 ₋ 136					11/29/22 02:40	1
Toluene-d8 (Surr)	103		78 - 122					11/29/22 02:40	1

73 - 120

12/6/2022