

Environment Testing America

ANALYTICAL REPORT

Eurofins Canton 180 S. Van Buren Avenue Barberton, OH 44203 Tel: (330)497-9396

Laboratory Job ID: 240-167062-1 Client Project/Site: Ford LTP - Off Site

For:

ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Attn: Kristoffer Hinskey

Mode Del Your

Authorized for release by: 6/6/2022 10:13:29 AM

Michael DelMonico, Project Manager I (330)497-9396

Michael.DelMonico@et.eurofinsus.com

----- LINKS -----**Review your project** results through EOL **Have a Question?**

Visit us at: www.eurofinsus.com/Env This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-167062-1

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Method Summary	5
Sample Summary	6
Detection Summary	7
Client Sample Results	8
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	14
Lab Chronicle	15
Certification Summary	16
Chain of Custody	17

4

5

7

9

10

12

13

Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-167062-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA
Qualifier Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.
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

4

5

6

0

9

. .

12

13

Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-167062-1

Project/Site: Ford LTP - Off Site

Job ID: 240-167062-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-167062-1

Comments

No additional comments.

Receipt

The samples were received on 5/21/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.9° C and 1.2° C.

GC/MS VOA

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

VOA Prep

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

4

5

6

Q

10

13

Method Summary

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

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

Protocol References:

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

Laboratory References:

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

Job ID: 240-167062-1

3

4

J

7

ŏ

10

11

13

Sample Summary

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

Job ID: 240-167062-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-167062-1	TRIP BLANK_161	Water	05/19/22 00:00	05/21/22 08:00
240-167062-2	MW-146S 051922	Water	05/19/22 12:20	05/21/22 08:00

Detection Summary

Client: ARCADIS U.S., Inc. Job ID: 240-167062-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_161 Lab Sample ID: 240-167062-1

No Detections.

No Detections.

A

5

6

1

9

10

12

13

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-167062-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_161

Date Collected: 05/19/22 00:00 Date Received: 05/21/22 08:00 Lab Sample ID: 240-167062-1

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			06/01/22 10:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			06/01/22 10:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			06/01/22 10:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			06/01/22 10:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			06/01/22 10:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			06/01/22 10:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		62 - 137					06/01/22 10:52	1
4-Bromofluorobenzene (Surr)	100		56 ₋ 136					06/01/22 10:52	1
Toluene-d8 (Surr)	101		78 - 122					06/01/22 10:52	1
Dibromofluoromethane (Surr)	119		73 - 120					06/01/22 10:52	1

Eurofins Canton

0

10

4.0

13

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-167062-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-146S_051922

Date Collected: 05/19/22 12:20 Date Received: 05/21/22 08:00 Lab Sample ID: 240-167062-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			06/01/22 01:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		66 - 120					06/01/22 01:09	1
Method: 8260D - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			06/01/22 11:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			06/01/22 11:14	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			06/01/22 11:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			06/01/22 11:14	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			06/01/22 11:14	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			06/01/22 11:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		62 - 137					06/01/22 11:14	1
4-Bromofluorobenzene (Surr)	93		56 ₋ 136					06/01/22 11:14	1
Toluene-d8 (Surr)	95		78 - 122					06/01/22 11:14	1
Dibromofluoromethane (Surr)	109		73 - 120					06/01/22 11:14	1

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-167062-1

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)
240-167062-1	TRIP BLANK_161	124	100	101	119
240-167062-2	MW-146S_051922	118	93	95	109
240-167067-K-2 MS	Matrix Spike	115	95	99	111
240-167067-N-2 MSD	Matrix Spike Duplicate	116	95	97	110
LCS 240-528681/5	Lab Control Sample	105	92	97	106
MB 240-528681/8	Method Blank	116	93	95	108
3 240-528681/8	Method Blank	116	93	95	108

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)	
240-167062-2	MW-146S_051922	88	
240-167067-G-2 MS	Matrix Spike	88	
240-167067-M-2 MSD	Matrix Spike Duplicate	89	
LCS 240-528626/3	Lab Control Sample	86	
MB 240-528626/4	Method Blank	87	
Surrogate Legend			

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

Eurofins Canton

Client: ARCADIS U.S., Inc. Job ID: 240-167062-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-528681/8

Matrix: Water

Analysis Batch: 528681

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

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Analyte 0.49 ug/L 1,1-Dichloroethene 1.0 U 1.0 06/01/22 10:08 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 06/01/22 10:08 1.0 U 0.44 ug/L Tetrachloroethene 1.0 06/01/22 10:08 trans-1,2-Dichloroethene 1.0 0.51 ug/L 06/01/22 10:08 1.0 U Trichloroethene 1.0 U 1.0 0.44 ug/L 06/01/22 10:08 Vinyl chloride 1.0 U 1.0 0.45 ug/L 06/01/22 10:08

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 62 - 137 1,2-Dichloroethane-d4 (Surr) 116 06/01/22 10:08 4-Bromofluorobenzene (Surr) 93 56 - 136 06/01/22 10:08 95 78 - 122 Toluene-d8 (Surr) 06/01/22 10:08 Dibromofluoromethane (Surr) 108 73 - 120 06/01/22 10:08

Lab Sample ID: LCS 240-528681/5

Matrix: Water

Analysis Batch: 528681

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LUS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	21.2		ug/L	_	106	63 - 134	
cis-1,2-Dichloroethene	20.0	20.7		ug/L		104	77 - 123	
Tetrachloroethene	20.0	18.9		ug/L		95	76 - 123	
trans-1,2-Dichloroethene	20.0	21.4		ug/L		107	75 - 124	
Trichloroethene	20.0	19.5		ug/L		97	70 - 122	
Vinyl chloride	20.0	19.6		ug/L		98	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 105 62 - 137 4-Bromofluorobenzene (Surr) 92 56 - 136 Toluene-d8 (Surr) 97 78 - 122 73 - 120 Dibromofluoromethane (Surr) 106

Lab Sample ID: 240-167067-K-2 MS

Matrix: Water

Analysis Batch: 528681

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	20.0	16.2		ug/L		81	56 - 135	
cis-1,2-Dichloroethene	1.0	U	20.0	18.1		ug/L		90	66 - 128	
Tetrachloroethene	1.0	U F1	20.0	11.9	F1	ug/L		60	62 - 131	
trans-1,2-Dichloroethene	1.0	U	20.0	17.2		ug/L		86	56 - 136	
Trichloroethene	1.0	U	20.0	14.6		ug/L		73	61 - 124	
Vinyl chloride	1.0	U	20.0	16.7		ug/L		83	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		62 - 137
4-Bromofluorobenzene (Surr)	95		56 - 136
Toluene-d8 (Surr)	99		78 - 122

10

Eurofins Canton

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-167062-1

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

Lab Sample ID: 240-167067-K-2 MS

Matrix: Water

Analysis Batch: 528681

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

MS MS

%Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 111 73 - 120

Lab Sample ID: 240-167067-N-2 MSD

Matrix: Water

Analysis Batch: 528681

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Limits RPD Limit Analyte Result Qualifier Unit D %Rec 1.0 U 1,1-Dichloroethene 20.0 16.4 ug/L 82 56 - 135 26 cis-1,2-Dichloroethene 1.0 U 20.0 18.3 ug/L 92 66 - 128 2 14 Tetrachloroethene 1.0 UF1 20.0 13.4 ug/L 67 62 - 13112 20 trans-1.2-Dichloroethene 1.0 U 20.0 17.1 86 15 ug/L 56 - 1361 Trichloroethene 1.0 U 20.0 148 ug/L 74 61 - 124 15 Vinyl chloride 1.0 U 20.0 16.6 ug/L 43 - 157 24

MSD MSD

MB MB

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	116		62 - 137
4-Bromofluorobenzene (Surr)	95		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	110		73 - 120

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

Lab Sample ID: MB 240-528626/4

Matrix: Water

Analysis Batch: 528626

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 05/31/22 20:47

MB MB

Limits Surrogate %Recovery Qualifier Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 87 66 - 120 05/31/22 20:47

Lab Sample ID: LCS 240-528626/3

Matrix: Water

Analysis Batch: 528626

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Added Result Qualifier Analyte Unit D %Rec Limits 1,4-Dioxane 10.0 11.7 ug/L 117 80 - 122

LCS LCS

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

Lab Sample ID: 240-167067-G-2 MS

Matrix: Water

Analysis Batch: 528626

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

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 10.9 ug/L 109 51 - 153

Eurofins Canton

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-167062-1

Project/Site: Ford LTP - Off Site

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	88		66 - 120								
Lab Sample ID: 240-1670 Matrix: Water Analysis Batch: 528626	067-M-2 MSD					Client	Samp	le ID: N	latrix Spil Prep Ty		
	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	11.9		ug/L		119	51 - 153	9	16
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	89		66 - 120								

QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-167062-1

GC/MS VOA

Analysis Batch: 528626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-167062-2	MW-146S_051922	Total/NA	Water	8260D SIM	
MB 240-528626/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-528626/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-167067-G-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-167067-M-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 528681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-167062-1	TRIP BLANK_161	Total/NA	Water	8260D	_ <u> </u>
240-167062-2	MW-146S_051922	Total/NA	Water	8260D	
MB 240-528681/8	Method Blank	Total/NA	Water	8260D	
LCS 240-528681/5	Lab Control Sample	Total/NA	Water	8260D	
240-167067-K-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-167067-N-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

4

5

7

10

11

12

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-167062-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_161

Date Collected: 05/19/22 00:00 Date Received: 05/21/22 08:00 Lab Sample ID: 240-167062-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	528681	06/01/22 10:52	TJL1	TAL CAN

Client Sample ID: MW-146S_051922	Lab Sample ID: 240-167062-2
Date Collected: 05/19/22 12:20	Matrix: Water
Date Received: 05/21/22 08:00	

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	528681	06/01/22 11:14	TJL1	TAL CAN
Total/NA	Analysis	8260D SIM		1	528626	06/01/22 01:09	CS	TAL CAN

Laboratory References:

TAL 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: 240-167062-1

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	06-30-22	
Georgia	State	4062	02-23-22 *	
Illinois	NELAP	200004	07-31-22	
lowa	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	06-30-22	
New York	NELAP	10975	04-01-23	
Ohio	State	8303	02-23-23	
Ohio VAP	State	CL0024	02-27-23	
Oregon	NELAP	4062	02-27-23	
Pennsylvania	NELAP	68-00340	08-31-22	
Texas	NELAP	T104704517-22-16	08-31-22	
Virginia	NELAP	11570	09-14-22	
Washington	State	C971	01-12-23	
West Virginia DEP	State	210 12-31-22		

...

3

4

_

9

10

13

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

Eurofins Canton

2008), (1864) (1

State Contest Christian Weaver Authorities State Christian	190	TestAmerica Laboratory location; Brighton	y location: Brig	1	ation Drive, Su	10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	hton, Mi 4811	6 / 810-	229-2763					211	THE STATE OF THE S
Control of the control of the proposed C	Chentany Name: Arradia	Regulator	y program:	4.	Idan	1	RCRA	Other	L				11	F	estAmerica Laboratorias.
The plane 20 for the plane	1133 SOURCE LAND CITY CON	Client Project May	nager: Kris Hins	key	Site Conta	ect: Christias	Weaver		3	Contact:	Mike D	elMosico		0	OC Net
Property Park N. 4. 4777	Address: 20559 Cabor Drive, Sonie 300	Telephone: 269-83	12-7478		Telephone	:: 248-994-23	62		Tel	phone: 3	30-966	183			
The part Par	City/State/Zip: Novi, MI, 48377	4			Analy	vie Parmeroun	N. Mare	-	+			Anghee		Ġ	1 of 1 COCs
Note Name First 17 OF Sine Single Name	Phone: 248-994-2240		Anthoney@arcad	весон						L	-				Alles and the local lab
1	Project Name: Ford LTP Off-Site	Sampler Name:	TURLIE	ď	TAT if diffe	arent from below 3 wee	\$ \$								Valk-in client
TRIP BLANK	Project Number: 30080642.402.04	Method of Shipme	nt/Carrier:							a		C	WIS	1	Simple of the state of the stat
TRIP BLANK	PO#30080642,402.04	Shipping/Tracking	No:		T	l day						10928	0097	ž	ob/SDG No:
Sumple Block Sump				Matrix	Contr	niners & Preser							:8 eu		
1 1 1 1 1 1 1 1 1 1	Sample Identification			Aqueeus Sediment Solid	EONH	HOMN	:mathO						exoid-4,1		Sample Apecific Notes / Special Instructions:
	TRIP BLANK_ 6			~				1		×		-			1 Trip Blank
Unknown Sample Disposal (A fer may be assessed if samples are retalised longer than 1 month) Sample Disposal (A fer may be assessed if samples are retalised longer than 1 month) Archive For 1 Months Disposal Disposal By Lab Archive For 1 Months Disposal Disposal Disposal By Lab Archive For 1 Months Disposal D	2 / h	E/19/22	250	7		7		7	7	×			>		3 VOAs for 8260D
Unknown Sample Disposal (After may be assessed if samples are retined longer than 1 month) Linknown Return to Client Disposal By Lab Archive For 1 Months Company: El 19/2 13 2 C Received by Cold Storage Sample Date/Time: Date/Date/Time: Date/Date/Date/Date/Date/Date/Date/Date/															
Unknown Sample Disposal (A fee may be assessed if samples are retilised longer than 1 month) Return to Cheart 'Disposal By Lab Archive For 1 Months Ed. 1912 1326 Date Time: Date Tim															
Unknown Sample Disposal (A fer may be assessed if samples are retilised longer than 1 month) Linknown Return to Client Disposal By Lab Archive For Months Bate/Time: Date/Time: Date/Date/Date/Date/Date/Date/Date/Date/											+			-	
Unknown Sample Disposal (A fre may be assessed if lamples are retiled longer than 1 month) Return to Client Disposal By lab Archive For I Months Date/Time: E/ 19/22/1326 Date/Time: Sample Disposal (A fre may be assessed if lamples are retiled longer than 1 month) Return to Client Disposal By lab Archive For I Months Sample Disposal (A fre may be assessed if lamples are retiled longer than 1 month) Return to Client Disposal By lab Archive For I Months S/19/22/13 S/19/22/13 S/19/22/13 Date/Time: Date/Time: Date/Time: Date/Time:															
Unknown Sauple Disposal (After may be assessed if sauples are retained longer than 1 month) Return to Client 'Disposal By Lab Archive For 1 Months Bate/Time: El/19/22/1326 Received by: Bate/Time: Company: Date/Time:										245	16706	2 Chair	of Custody		
Unknown Return to Client 'Disposal By Lab Archive For I Months DeterTime: DeterTime: Dete															
Descrime: Descrime: Descr	ammable			- I	Sample	Disposal (A	fee may be as:	sessed if	amples a	re retailer	d longe	T than	nonth)		
Physical Company: Company Company Date/Time; Dat	Special Instruction/OC Requirements & Comments: Sample Address: 34367 CARES Submit all results through Cadona at jtomatla@ca	TOL denaco.com. Cadena #E2						prose of		2			STREET		
Company: CARIES ST2C TZ 1000 Received by Company: Company: Date/Time: Date/Time: Date/Time:	Relinquished by: Lt. Thu W.	Company:		Date/Time; 5/19/22/	1320	Rece	, n	Sld	Stor	296	රී		1-	ū	S/19/22/1320
Company: Determine: Determine: Determine: Determine:	6	Company		SPOT	8		DY: (M	1		>	රී	Contract of the state of the st	A	<u>.</u>	Shops 100
		Company:		Date/Time:		Rose	in Laboratory	v by:		1	ర	mpany:	1515+ 1.	-	Date/Time:

19. SAMPLE CONDITION	
Sample(s)	were received after the recommended holding time had expired.
	were received in a broken container.
	were received with bubble >6 mm in diameter. (Notify PM)
0. SAMPLE PRESERV	TION
Sample(s)	were further preserved in the laboratory.
Time preserved:	Preservative(s) added/Lot number(s):
VOA Sample Preservation	Date/Time VOAs Frozen:

2

Login#: 147062

Eurofins - Canton Sample Receipt Multiple Cooler Form IR Gun # Observed Coolant **Cooler Description** Corrected (Circle) (Circle) (Dircle) Temp °C Temp °C d Wet Ice | Blue Ice Dry Ice IR-13 R-15 + G Client Box Other None IR-13 TR-15 Blue Ice Dry Ice TA Client Other Box Water None TR-13 IR-15 Blue Ice Dry Ice TA Client Box Other Water None Blue Ice Wet Ice Dry ice IR-13 IR-15 TA Client Box Other Water IR-13 IR-15 Nue Ice Dry Ice TA Client Box Other Water None IR-13 IR-15 Wet Ice Sive ice Dry Ice TA Client Other Box Water None IR-13 IR-15 Wel Ice Bive Ice Dry Ice TA **Client** Other Box Water None IR-13 IR-15 Wet Ice Blue Ice Dry Ice Client Other TA Box Water None IR-13 IR-15 Wet Ice Blue Ice Dry Ice TA **Client** Box Other Water None IR-13 IR-15 Wet Ice Sive Ice Dry Ice TA Client Box Other Water None Wet Ice Bive Ice Dry Ice IR-13 IR-15 TA Client Box Other IR-13 IR-15 Nue Ice Wet Ice Water No. TA **Client** Box Other None Dry Ice IR-13 IR-15 Wet Ice Client Other TA Box Water None IR-13 IR-15 Wel Ice TA **Client** Box Other Water None Wet Ice Blue Ice Dry Ice IR-13 IR-15 Client Other TA Box Water None IR-13 IR-15 Wet Ice Blue Ice Dry Ice Client TA Box Other Water None
e Blue Ice Dry Ice IR-13 IR-15 Client Other TA Box Water None Slue Ice Dry Ice IR-13 IR-15 Wel ke TA Client Other Box Water None IR-13 IR-15 Wet Ice TA **Client** Box Other Water None Sive ice Dry ice IR-13 IR-15 Wet Ice Client TA Other Box Water None IR-13 IR-15 Wet Ice tive ice TA **Client** Box Other Water None IR-13 IR-15 Wet Ice Blue Ice Dry Ice Client TA Box Other Water None IR-13 IR-15 Blue Ice Dry Ice Wet Ice Client Other TA Water None IR-13 IR-15 Wel Ice Blue Ice Dry Ice Client Other TA Box Water None Blue Ice Dry Ice IR-13 IR-15 Wet Ice Client Other TA Box Water None IR-13 IR-15 Blue Ice Dry Ice Client Other TA Box Water None Blue Ice Dry Ice IR-13 IR-15 Wel Ice TA Client Box Other Water None live ice IR-13 IR-15 Client Other TA Box Water None Sive Ice Dry Ice IR-13 IR-15 Wet Ice TA Client Other Box Water None IR-13 IR-15 Sive Ice TA Client Box Other Water None
e Blue Ice Dry Ice IR-13 IR-15 Wet Ice TA Client Box Other Water None IR-13 IR-15 Blue Ice Wet Ice TA Client Box Other Water None IR-13 IR-15 Wellice Blue ice Dry Ice Client Other TA Box Water None IR-13 IR-15 Wet ice Blue ice TA Client Other Water None See Temperature Excursion Form

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

DATA VERIFICATION REPORT



June 07, 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: 30080642.402.04

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

Laboratory submittal: 167062-1 Sample date: 2022-05-19

Report received by CADENA: 2022-06-06

Initial Data Verification completed by CADENA: 2022-06-07

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.

The following minor QC exceptions or missing information were noted:

MS/MSD recovery outliers or sample duplicate RPD outliers were not determined using a client sample from this submittal for the test and QC batch noted so qualification was not required based on these sample-specific QC outliers:

GCMS VOC QC batch 528681.

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.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

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: 167062-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401670 5/19/20	0621	L		MW-146 2401670 5/19/20	0622	22	
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>0D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-826	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

DATA REVIEW

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-167062-1

CADENA Verification Report: 2022-06-07

Analyses Performed By:

TestAmerica North Canton, Ohio

Report # 45946R Review Level: Tier III Project: 30080642.402.01

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-167062-1 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	lysis
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM
TRIP BLANK_161	240-167062-1	Water	05/19/2022		Х	
MW-146S_051922	240-167062-2	Water	05/19/2022		Х	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		X		X	
2. Requested analyses and sample results		Х		Х	
Master tracking list		Х		X	
4. Methods of analysis		Х		X	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		X	
10. Fully executed Chain-of-Custody (COC) form		Х		X	
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 8260B and 8260B SIM. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

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 8260B/8260B-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 is 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: 8260B/8260B-SIM	Reported		Performance Acceptable		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		X	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	X				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		Х		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bhagyashree Fulzele

SIGNATURE: Brutzele

DATE: June 21, 2022

PEER REVIEW: Andrew Korycinski

DATE: June 22, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

<u>TestAmerica</u>

TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Sulte 200 / Brighton, MI 48116 / 810-229-2763 Other Client Contact Regulatory program: **NPDES** RCRA Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 269-832-7478 Telephone: 248-994-2329 Telephone: 330-966-9783 City/State/Zip: Novi, MI, 48377 COCS Email: Kristoffer.Hinskey@arcadis.com Analyses For lab use only Analysis Turnaround Time Phone: 248-994-2240 Sampler Name: TAT if different from below Walk-in client Project Name: Ford LTP Off-Site 3 weeks - 2 weeks Lab sampling Project Number: 30080642.402.04 1 week 1,4-Dioxane 8260D SIM Composite-C/Grab-G Filtered Sample (Y / N) 2 days /inyl Chloride 8260D cis-1,2-DCE 8280D PO #30080642,402.04 Job/SDG No: Shipping/Tracking No: 1 day VAGE Containers & Preservatives PCE 8280D **CE 8260D** Sample Specific Notes / HINOS Special Instructions: K Sample Time Sample Identification TRIP BLANK_ 16 1 Trip Blank 3 VOAs for 8260D 5/19/22 6 1220 MW-1465_05A22 6 3 VOAs for 8260D 8IM Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Skin Irritant Non-Hazard Unknown Return to Client Disposal By Lab Archive For Special Instructions/QC Requirements & Comments: 34367 CAPITOL Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested. Relinquished by: Arcadis NOU cold Storage Relinquished by: Received by: Relinquished by: 6 c200A, TraslAmentos Laboratorias, etc. As Francisco resea GallAmentos & Deergn ** are traslandarias di YeckAmen (6/2022











σ

6

л

ယ

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-167062-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_161

Date Collected: 05/19/22 00:00 Date Received: 05/21/22 08:00 Lab Sample ID: 240-167062-1

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			06/01/22 10:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			06/01/22 10:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			06/01/22 10:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			06/01/22 10:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			06/01/22 10:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			06/01/22 10:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		62 - 137					06/01/22 10:52	1
4-Bromofluorobenzene (Surr)	100		56 ₋ 136					06/01/22 10:52	1
Toluene-d8 (Surr)	101		78 - 122					06/01/22 10:52	1
Dibromofluoromethane (Surr)	119		73 - 120					06/01/22 10:52	1

Eurofins Canton

0

10

4.0

13

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-167062-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-146S_051922

Date Collected: 05/19/22 12:20 Date Received: 05/21/22 08:00 Lab Sample ID: 240-167062-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			06/01/22 01:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		66 - 120					06/01/22 01:09	1
Method: 8260D - Volatile O	•	•				_			
Method: 8260D - Volatile O Analyte	•	unds by G Qualifier	C/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier			Unit ug/L	<u>D</u>	Prepared	Analyzed 06/01/22 11:14	Dil Fac
Analyte	Result	Qualifier U	RL	0.49		<u> </u>	Prepared		Dil Fac
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U U		0.49	ug/L ug/L	<u> </u>	Prepared	06/01/22 11:14	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	ug/L ug/L ug/L	<u>D</u>	Prepared	06/01/22 11:14 06/01/22 11:14	Dil Fac 1 1 1 1

Vinyl chloride	1.0 U	J	1.0	0.45 ug/L		06/01/22 11:14	1
Surrogate	%Recovery Q	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		62 - 137			06/01/22 11:14	1
4-Bromofluorobenzene (Surr)	93		56 - 136			06/01/22 11:14	1
Toluene-d8 (Surr)	95		78 - 122			06/01/22 11:14	1
Dibromofluoromethane (Surr)	109		73 - 120			06/01/22 11:14	1