

Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Canton 4101 Shuffel Street NW North Canton, OH 44720 Tel: (330)497-9396

Laboratory Job ID: 240-159965-1 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: 11/29/2021 8:41:36 AM

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

Michael.DelMonico@Eurofinset.com

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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 signature.

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: 240-159965-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-159965-1

Project/Site: Ford LTP - Off-Site

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

LCS and/or LCSD is outside acceptance limits, high biased. 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.
/ tobiotiation	THOSE COMMISSING	acca approvidencino ma	, or may not so	procent in time reporti

¤ 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**

Detection Limit (DoD/DOE) DΙ

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

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 MLMinimum Level (Dioxin) Most Probable Number MPN 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**

Relative Error Ratio (Radiochemistry) RER

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

TNTC Too Numerous To Count

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Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-159965-1

Project/Site: Ford LTP - Off-Site

Job ID: 240-159965-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-159965-1

Comments

No additional comments.

Receipt

The samples were received on 11/12/2021 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 was 0.6° C.

GC/MS VOA

Method 8260B: The continuing calibration verification (CCV) associated with batch 513804 recovered above the upper control limit for Vinyl Chloride. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: TRIP BLANK_105 (240-159965-1) and MW-93S_111021 (240-159965-2).

Method 8260B: The laboratory control sample (LCS) for 513804 recovered outside control limits for Tetrachloroethene. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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

VOA Prep

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

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Method Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off-Site Job ID: 240-159965-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	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 TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Sample Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-159965-1

Project/Site: Ford LTP - Off-Site

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-159965-1	TRIP BLANK_105	Water	11/10/21 00:00	11/12/21 08:00
240-159965-2	MW-93S_111021	Water	11/10/21 14:11	11/12/21 08:00

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Detection Summary

Client: ARCADIS U.S., Inc. Job ID: 240-159965-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_105 Lab Sample ID: 240-159965-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-159965-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_105

Date Collected: 11/10/21 00:00 Date Received: 11/12/21 08:00

Lab Sample ID: 240-159965-1

Matrix: Water

Method: 8260B - Volatile O	rganic Compo	unds (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			11/19/21 22:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/21 22:22	1
Tetrachloroethene	1.0	U *+	1.0	0.44	ug/L			11/19/21 22:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/21 22:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/21 22:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/21 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137					11/19/21 22:22	1
4-Bromofluorobenzene (Surr)	75		56 - 136					11/19/21 22:22	1
Toluene-d8 (Surr)	108		78 - 122					11/19/21 22:22	1
Dibromofluoromethane (Surr)	100		73 - 120					11/19/21 22:22	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-159965-1

Project/Site: Ford LTP - Off-Site

Date Received: 11/12/21 08:00

Client Sample ID: MW-93S_111021 Lab Sample ID: 240-159965-2

Date Collected: 11/10/21 14:11 **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			11/18/21 05:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		66 - 120			-		11/18/21 05:32	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/I	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/19/21 22:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/21 22:44	1
Tetrachloroethene	1.0	U *+	1.0	0.44	ug/L			11/19/21 22:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/21 22:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/21 22:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/21 22:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		11/19/21 22:44	1
4-Bromofluorobenzene (Surr)	72		56 ₋ 136					11/19/21 22:44	1
Toluene-d8 (Surr)	120		78 - 122					11/19/21 22:44	1
Dibromofluoromethane (Surr)	104		73 - 120					11/19/21 22:44	1

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Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-159965-1

Project/Site: Ford LTP - Off-Site

Method: 8260B - Volatile Organic Compounds (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)
240-159953-A-2 MS	Matrix Spike	100	85	115	96
240-159953-D-2 MSD	Matrix Spike Duplicate	99	87	112	92
240-159965-1	TRIP BLANK_105	104	75	108	100
240-159965-2	MW-93S_111021	110	72	120	104
LCS 240-513804/4	Lab Control Sample	100	87	118	98
MB 240-513804/6	Method Blank	105	81	118	101

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Method: 8260B 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)	
240-159642-H-3 MS	Matrix Spike	87	
240-159642-M-3 MSD	Matrix Spike Duplicate	87	
240-159965-2	MW-93S_111021	89	
LCS 240-513480/3	Lab Control Sample	84	
MB 240-513480/4	Method Blank	84	
Surrogate Legend			
DCA = 1,2-Dichloroetha	ane-d4 (Surr)		

Client: ARCADIS U.S., Inc. Job ID: 240-159965-1

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

Lab Sample ID: MB 240-513804/6

Matrix: Water

Analysis Batch: 513804

Project/Site: Ford LTP - Off-Site

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 11/19/21 15:38 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 11/19/21 15:38 1.0 U 0.44 ug/L Tetrachloroethene 1.0 11/19/21 15:38 trans-1,2-Dichloroethene 1.0 0.51 ug/L 11/19/21 15:38 1.0 U Trichloroethene 1.0 U 1.0 0.44 ug/L 11/19/21 15:38 Vinyl chloride 1.0 U 1.0 0.45 ug/L 11/19/21 15:38

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 105 62 - 137 1,2-Dichloroethane-d4 (Surr) 11/19/21 15:38 4-Bromofluorobenzene (Surr) 81 56 - 136 11/19/21 15:38 78 - 122 Toluene-d8 (Surr) 118 11/19/21 15:38 Dibromofluoromethane (Surr) 101 73 - 120 11/19/21 15:38

Lab Sample ID: LCS 240-513804/4

Matrix: Water

Analysis Batch: 513804

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

0/ Daa

	Бріке	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	10.0	11.0		ug/L		110	63 - 134	
cis-1,2-Dichloroethene	10.0	11.0		ug/L		110	77 - 123	
Tetrachloroethene	10.0	13.0	*+	ug/L		130	76 - 123	
trans-1,2-Dichloroethene	10.0	10.8		ug/L		108	75 - 124	
Trichloroethene	10.0	9.54		ug/L		95	70 - 122	
Vinyl chloride	10.0	11.1		ug/L		111	60 - 144	

100 100

Chika

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 100 62 - 137 4-Bromofluorobenzene (Surr) 56 - 136 87 Toluene-d8 (Surr) 118 78 - 122 73 - 120 Dibromofluoromethane (Surr) 98

Lab Sample ID: 240-159953-A-2 MS

Matrix: Water

Analysis Batch: 513804

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	10.0	10.4		ug/L		104	56 - 135	
cis-1,2-Dichloroethene	1.0	U	10.0	10.3		ug/L		103	66 - 128	
Tetrachloroethene	1.0	U *+	10.0	10.2		ug/L		102	62 - 131	
trans-1,2-Dichloroethene	1.0	U	10.0	10.4		ug/L		104	56 - 136	
Trichloroethene	1.0	U	10.0	8.59		ug/L		86	61 - 124	
Vinyl chloride	1.0	U	10.0	10.2		ug/L		102	43 - 157	
-						_				

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	85		56 - 136
Toluene-d8 (Surr)	115		78 - 122

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Job ID: 240-159965-1

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

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

Lab Sample ID: 240-159953-A-2 MS

Matrix: Water

Analysis Batch: 513804

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

%Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 96 73 - 120

Lab Sample ID: 240-159953-D-2 MSD

Matrix: Water

Analysis Batch: 513804

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

%Rec. **RPD** Limits RPD Limit Unit %Rec ug/L 99 56 - 135 5 26 98 66 - 128 5 14

Sample Sample Spike MSD MSD Result Qualifier Added **Analyte** Result Qualifier 1.0 U 1,1-Dichloroethene 10.0 9.86 ug/L cis-1,2-Dichloroethene 1.0 U 10.0 9.79 Tetrachloroethene 1.0 U*+ 10.0 9.63 ug/L 96 62 - 1316 20 trans-1.2-Dichloroethene 1.0 U 10.0 9.82 ug/L 98 56 - 136 15 5 Trichloroethene 1.0 U 10.0 8.28 ug/L 83 61 - 124 4 15 Vinyl chloride 1.0 U 10.0 10.7 ug/L 107 43 - 157 24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	87		56 - 136
Toluene-d8 (Surr)	112		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

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

Lab Sample ID: MB 240-513480/4

Matrix: Water

Analyte

1,4-Dioxane

Analysis Batch: 513480

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

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 2.0 2.0 U 0.86 ug/L 11/17/21 19:58

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 84 66 - 120 11/17/21 19:58

Lab Sample ID: LCS 240-513480/3

Matrix: Water

Analyte

1,4-Dioxane

Analysis Batch: 513480

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

Spike LCS LCS %Rec. Added Result Qualifier Limits Unit D %Rec 10.0 9.37 ug/L 94 80 - 122

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 84

Lab Sample ID: 240-159642-H-3 MS

Matrix: Water

Analysis Batch: 513480

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	
1,4-Dioxane	2.0	U F1	10.0	10.3		ug/L		103	51 - 153	

Eurofins TestAmerica, Canton

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-159965-1

Project/Site: Ford LTP - Off-Site

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	87		66 - 120								
Lab Sample ID: 240-1596 Matrix: Water Analysis Batch: 513480	642-M-3 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	Limi
1,4-Dioxane	2.0	U F1	10.0	9.57		ug/L		96	51 - 153	7	16
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	87		66 - 120								

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QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off-Site

Job ID: 240-159965-1

GC/MS VOA

Analysis Batch: 513480

Lab Sample ID 240-159965-2	Client Sample ID MW-93S_111021	Prep Type Total/NA	Matrix Water	Method 8260B SIM	Prep Batch
MB 240-513480/4	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-513480/3	Lab Control Sample	Total/NA	Water	8260B SIM	
240-159642-H-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-159642-M-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 513804

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159965-1	TRIP BLANK_105	Total/NA	Water	8260B	
240-159965-2	MW-93S_111021	Total/NA	Water	8260B	
MB 240-513804/6	Method Blank	Total/NA	Water	8260B	
LCS 240-513804/4	Lab Control Sample	Total/NA	Water	8260B	
240-159953-A-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-159953-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-159965-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_105 Lab Sample ID: 240-159965-1

Date Collected: 11/10/21 00:00 Matrix: Water Date Received: 11/12/21 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513804	11/19/21 22:22	LEE	TAL CAN

Date Collected: 11/10/21 14:11 Date Received: 11/12/21 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513804	11/19/21 22:44	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	513480	11/18/21 05:32	CS	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Matrix: Water

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Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-159965-1

Project/Site: Ford LTP - Off-Site

Laboratory: Eurofins TestAmerica, 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	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-22
lowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-22
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-18-10	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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	Zeo	Chair	Chain of Custody Record		-	[estAmerica
		TestAmerica Laboratory location. Brighton 10448 Citat	10448 Citation Drive Suite 200 / Brighton MI 48116 / 810-229-2763	/ 810-229-2763		LEADTRE & VACERFOIM ET
	Client Contact	Regulatory program DW	- NPDES RCRA	Other	Designation of the Control of the Co	*
	Company name Arcadis	Client Project Manager Kris Hinskey	Site Contact: Inlia McCleffort,			TestAmerica Laboratories, Inc.
	Address 28550 Cabot Drive, Suite 500			CONTROL MINE DELIVED	03111	COC No.
	City/State/Zhp Novi, MI, 48377	Telephone 248-994-2240	Telephone 734-644-5131	Telephone 330-497-9396		4 of 4 COC.
	Phone 248-994-2240	Email kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	lyses	only
	Project Name Ford LTP Off-Site	Sampler Name	ent from b			Walk-in client
	Project Number 30080642.402.04	Method of Shipment/Carrier	·		MI	Lab sampling
	PO #30080642,402.04	Shipping/Tracking No	2 days 1 day	: 85e0B 5e0B		Job/SDG No
		Matrix	Containers & Preservatives	18 - DCE 83 - DCE 83 - SC 83 -		
	Sample Identification	Sample Date Sample Time Advens Sediment	Eilfeled S Ospel. Osp	Composition 1-DCE 8260 PCE 826	Vinyl Chlo 1 4-Dioxar	Sample Specific Notes / Special Instructions
	TRIP BLANK_ /ØS	×	1	× × × × × ×	3* *	1 Trip Blank
~	9 MW -935_ MA31	11/6/31 14://		> >		3 VOAs for 8260B
				X X X X X S	1	3 VOAs for 8260B SIM
Pa						
age 1						
7 of						
18						
			240-15996	240-159965 Chain of Custody		
				y constant	-	
		an Irritant 「Poison B 「Unknown	Sample Disposal (A fee may be asses: Return to Chent © Dispos	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Chent & Disposal By Lab Archive For Mon	1 month) Months	
	Special instructions/I/C Requirements & Comments Submit all results through Cadena at jtomalia@cadenaco com Cadena #E203631 Level IV Reporting requested	naco com Cadena #E203631				
	Relinquished by Achieve A A A A	Company Date/Time	Received by:	CLANCOO	Company	Date/Time
	Relinquished by Charles Color	Date/Time	Received by:			12/
	Keinquished by	Date/Time	Received in Laboratory by		AL	Date/Time
	Ş					1

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Eurofins TestAmerica Canton Facility	Canton Sample Reco	eipt Form/Narrat	ive	Login #	: 159965
Client Argadis		Site Name			unpacked by
Cooler Received on 11/1	2/21	Opened on \\	2121	tho M	hew Suna
FedEx: 1st Grd Exp					
Receipt After-hours: Dro			Storage Loc		
Packing material used COOLANT. COOLANT. COOLANT. COOLER temperature up IR GUN# IR-14 (CF IR GUN #IR-15 (CF 2. Were tamper/custody -Were the seals on to-Were tamper/custody	TA Foam Bod: d: Rubble Wrap Wet Ice Blue Ice pon receipt +0.1 °C) Observed seals on the outside of the cooled the outside of the cooled y seals intact and uncattached to the cooler(company the sample(s) ers relinquished & signer who collected the same good condition (Unbin (ID/Date/Time) be received to perform indicated amples and all listed on the correct place. The correct place is the correct place in any VOA vials?	Foam Plastic Ba Dry Ice Wate Cooler Temp. Cooler Temp. The cooler(s)? If Yer(s) signed & dated s) or bottle kits (LL) compromised? s)? ed in the appropriate mples clearly identificated. conciled with the COC ervatives (YN), # or icated? ated analyses? In the COC? It the originating lab H upon receipt? Larger	Box Ott g None Ott er None See Multiple Off C Corrected C Corrected C Corrected Res Quantity Response on the COC? f containers (N) corrected on the COC? f containers (N) corrected on the COC?	her her her Cooler Form Cooler Temp. O Cooler Temp. No NA Yes No NA Yes No NA Yes No NA Yes No	Tests that are not checked for pH by Receiving: VOAs Oil and Grease TOC
17. Was a LL Hg or Me H	Ig trip blank present?			Yes No	
Contacted PM	Date	by	via Ve	erbal Voice Mail (Other
Concerning	<u> </u>				
18. CHAIN OF CUSTOI			_		processed by:
9. SAMPLE CONDITION			, i	- i	
Sample(s)		_were received afte	r the recommende	d holding time had	expired.
Sample(s)				eceived in a broken	
Sample(s)	*	were recei	ved with bubble >	o mm in diameter.	(Notity PM)
0. SAMPLE PRESERV	ATION		t.		
ample(s)			w	ere fürther preserv	ed in the laboratory
Sample(s)	Preservative(s) ac	dded/Lot number(s)	*		*
OA Sample Preservation				,	
		1			Y

WI-NC-099

DATA VERIFICATION REPORT



November 29, 2021

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 WA03 OFF-SITE GW Event Specific Scope of Work References: Sample COC

Laboratory: TestAmerica - North Canton

Laboratory submittal: 159965-1 Sample date: 2021-11-10

Report received by CADENA: 2021-11-29

Initial Data Verification completed by CADENA: 2021-11-29

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 QC batch 513804 LCS recovery was outlying biased high for the following analyte: TETRACHLOROETHENE. Associated client sample results were non-detect so qualification was not required based on this high bias QC outlier.

GCMS VOC QC batch CCV response outliers 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 517-819-0356

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

Reportable Results Only

CADENA Project ID: E203631

Laboratory: TestAmerica - North Canton

Laboratory Submittal: 159965-1

		Sample Name: TRIP BLANK_105			MW-93S_111021					
		Lab Sample ID:	2401599	9651			2401599	9652		
		Sample Date:	11/10/2	021			11/10/2021			
			•		Valid	Report			Valid	
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>)B</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-8260	<u>)BBSim</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 # 240-159965-1

CADENA Verification Report: 2021-11-29

Analyses Performed By: TestAmerica

North Canton, Ohio

Report # 43717R Review Level: Tier III Project: 30080642.402.04

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-159965-1 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_105	240-159965-1	Water	11/10/21		Х	
MW-93S_111021	240-159965-2	Water	11/10/21		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	Reported		mance ptable	Not Required	
	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 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, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compound	Criteria
		Vinyl chloride	+30.0%
TRIP BLANK_105 MW-93S 111021	Continuous Calibration Verification %D	cis-1,2-Dichloroethene	+20.5%
000_111021		Tetrachloroethene	+21.1%

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	RRF <0.05	Detect	J
Calibration	RRF <0.01 ¹	Non-detect	R
	KKF <0.01	Detect	J

Initial/Continuing	Criteria	Sample Result	Qualification
	DDE > 0.05 or DDE > 0.041	Non-detect	Nia Aatian
	RRF >0.05 or RRF >0.01 ¹	Detect	No Action
	%RSD > 20% or a correlation coefficient		UJ
l., '4' - 1	<0.99	Detect	J
Initial Calibration	0/ DOD > 000/	Non-detect	R
	%RSD > 90%	Detect	J
	0/D - 000/ /:	Non-detect	No Action
	%D >20% (increase in sensitivity)	Detect	J
	2/5 200/ (1	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	0/D - 000/ //	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: 8260B/8260B-SIM		orted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation					
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х	X		
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		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: Hrishikesh Upadhyaya

SIGNATURE:

DATE: December 16, 2021

PEER REVIEW: Andrew Korycinski

DATE: December 16, 2021

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

Date/Time

Date/Time

11/12/21

8,00

ET

ETA

TestAmerica Laboratory location · Brighton --- 10448 Citation Drive Suite 200 / Brighton MI 48116 / 810-229-2763 Client Contact Regulatory program ~ pw - NPDES ☐ RCRA Other Company Name Arcadis TestAmerica Laboratories, Inc. Client Project Manager Kris Hinskey Site Contact Julia McClafferty Lab Contact. Mike DelMonico COC No: Address 28550 Cabot Drive, Suite 500 Telephone 248-994-2240 Telephone 734-644-5131 Telephone 330-497-9396 City/State/Zip Novi, MI, 48377 COCs Email kristoffer.hinskey@arcadis.com Analysis Turnaround Time Analyses For lab use only Phone 248-994-2240 Sampler Name TAT if different from below Walk-ın client Project Name Ford LTP Off-Site 3 weeks ✓ 2 weeks Lab sampling Project Number 30080642,402,04 □ I week Composite=C / Grab=G 1 4-Dioxane 8260B SIM rans-1 2-DCE 8260B 2 days Vinyl Chloride 8260B PO # 30080642.402.04 Shipping/Tracking No Job/SDG No Matrix Containers & Preservatives Sample Specific Notes / H2SO4 NaOH ZaAc/ NaOH Solid Other HN03 Other. HCI Special Instructions Sample Identification Air Sample Date Sample Time X Χ Х Χ X Χ 1 Trip Blank MW-935_111021 3 VOAs for 8260B 14:11 Х 3 VOAs for 8260B SIM Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Non-Hazard ["lammable an Irritant □ Poison B □ Unknown Return to Client Disposal By Lab Archive For Special Instructions/QC Requirements & Comments Submit all results through Cadena at jtomalia@cadenaco com Cadena #E203631 Level IV Reporting requested Relinquished by Received by Company. Arcyclic Date/Time/ 11/10/21 Date/Time/ Arcadis 1726

Received in Laboratory by

 ~ 4.4

Date/Time

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11-11-21 1042

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-159965-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_105

Lab Sample ID: 240-159965-1 Date Collected: 11/10/21 00:00 **Matrix: Water**

Date Received: 11/12/21 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/19/21 22:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/21 22:22	1
Tetrachloroethene	1.0	U **	1.0	0.44	ug/L			11/19/21 22:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/21 22:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/21 22:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/21 22:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137			-		11/19/21 22:22	1
4-Bromofluorobenzene (Surr)	75		56 ₋ 136					11/19/21 22:22	1
Toluene-d8 (Surr)	108		78 - 122					11/19/21 22:22	1
Dibromofluoromethane (Surr)	100		73 - 120					11/19/21 22:22	1

Client Sample ID: MW-93S_111021

Date Collected: 11/10/21 14:11	Matrix: Water
Date Received: 11/12/21 08:00	
Mathada 0000D CIM Malatila Ormania Carranavada (CC/MC)	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/18/21 05:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		66 - 120					11/18/21 05:32	1

Michiga, 02000 - Volutile Ol	garne compo	unus (Connic	•)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/19/21 22:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/21 22:44	1
Tetrachloroethene	1.0	U**	1.0	0.44	ug/L			11/19/21 22:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/21 22:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/21 22:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/21 22:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		62 - 137		11/19/21 22:44	1
4-Bromofluorobenzene (Surr)	72		56 - 136		11/19/21 22:44	1
Toluene-d8 (Surr)	120		78 - 122		11/19/21 22:44	1
Dibromofluoromethane (Surr)	104		73 - 120		11/19/21 22:44	1

Lab Sample ID: 240-159965-2