

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 240-144365-1 Client Project/Site: Ford LTP - Off Site

For:

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

Attn: Kristoffer Hinskey

Mile Del Your

Authorized for release by: 2/19/2021 11:37:38 AM

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

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.....LINKS

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

Laboratory Job ID: 240-144365-1

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

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Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 240-144365-1

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.

Eisted 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

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Case Narrative

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-144365-1

Job ID: 240-144365-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-144365-1

Comments

No additional comments.

Receipt

The samples were received on 2/11/2021 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 2.2° C.

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

VOA Prep

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

Method Summary

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

Job ID: 240-144365-1

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. Project/Site: Ford LTP - Off Site

Job ID: 240-144365-1

ah Samula ID - Cliant San	nple ID Matrix	Collected	Dooglyad	A 4 ID
Lab Sample ID Client San			Received	Asset ID
240-144365-1 TRIP BLAN	NK Water	02/09/21 00:00	02/11/21 08:00	
240-144365-2 MW-91S_0	020921 Water	02/09/21 11:41	02/11/21 08:00	

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Detection Summary

Client: ARCADIS U.S., Inc. Job ID: 240-144365-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK Lab Sample ID: 240-144365-1

No Detections.

Lab Sample ID: 240-144365-2 Client Sample ID: MW-91S_020921

No Detections.

Client Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 240-144365-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK Lab Sample ID: 240-144365-1

Date Collected: 02/09/21 00:00 Matrix: Water

Date Received: 02/11/21 08:00

Method: 8260B - Volatile Org	janic Compo	unds (GC/	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/15/21 18:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/15/21 18:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/15/21 18:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/15/21 18:21	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/15/21 18:21	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/15/21 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 130			•		02/15/21 18:21	1
4-Bromofluorobenzene (Surr)	90		47 - 134					02/15/21 18:21	1
Toluene-d8 (Surr)	96		69 - 122					02/15/21 18:21	1
Dibromofluoromethane (Surr)	100		78 - 129					02/15/21 18:21	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-144365-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-91S_020921 Lab Sample ID: 240-144365-2

Date Collected: 02/09/21 11:41 Date Received: 02/11/21 08:00

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			02/12/21 18:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		70 - 133					02/12/21 18:22	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/I	MS)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L		-	02/17/21 10:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/17/21 10:51	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/17/21 10:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/17/21 10:51	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/17/21 10:51	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/17/21 10:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 130					02/17/21 10:51	1
4-Bromofluorobenzene (Surr)	95		47 - 134					02/17/21 10:51	1
Toluene-d8 (Surr)	104		69 - 122					02/17/21 10:51	1
Dibromofluoromethane (Surr)	101		78 - 129					02/17/21 10:51	1

Job ID: 240-144365-1

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

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

Matrix: Water Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)						
		DCA	BFB	TOL	DBFM			
Lab Sample ID	Client Sample ID	(75-130)	(47-134)	(69-122)	(78-129)			
240-144277-B-2 MS	Matrix Spike	91	95	105	99	 		
240-144277-B-2 MSD	Matrix Spike Duplicate	93	90	99	99			
240-144365-1	TRIP BLANK	99	90	96	100			
240-144365-2	MW-91S_020921	100	95	104	101			
240-144438-B-2 MS	Matrix Spike	90	89	97	96			
240-144438-B-2 MSD	Matrix Spike Duplicate	87	83	92	90			
LCS 240-473047/4	Lab Control Sample	99	102	106	104			
LCS 240-473375/4	Lab Control Sample	93	96	100	98			
MB 240-473047/6	Method Blank	86	81	92	93			
MB 240-473375/6	Method Blank	99	96	104	99			

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

		DCA	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-133)	
240-144365-2	MW-91S_020921	85	
240-144376-F-3 MS	Matrix Spike	83	
240-144376-F-3 MSD	Matrix Spike Duplicate	82	
LCS 240-472900/4	Lab Control Sample	82	
MB 240-472900/5	Method Blank	82	
Surrogate Legend			

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Client: ARCADIS U.S., Inc. Job ID: 240-144365-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-473047/6

Matrix: Water

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

Analyte

Analysis Batch: 473047

Client Samp	le ID:	Meth	od Blank
	Prep	Type:	Total/NA

MB MB **Result Qualifier** RL**MDL** Unit D **Prepared** Analyzed Dil Fac 1.0 U 0.19 ug/L 1.0 02/15/21 10:57 1.0 U 1.0 0.16 ug/L 02/15/21 10:57 1.0 U 1.0 0.15 ug/L 02/15/21 10:57 1.0 U 1.0 0.19 ug/L 02/15/21 10:57 1.0 U 1.0 0.10 ug/L 02/15/21 10:57 1.0 U 1.0 0.20 ug/L 02/15/21 10:57

MB MB Surrogate Qualifier Limits Prepared Dil Fac %Recovery Analyzed 1,2-Dichloroethane-d4 (Surr) 75 - 130 86 02/15/21 10:57 4-Bromofluorobenzene (Surr) 81 47 - 134 02/15/21 10:57 Toluene-d8 (Surr) 92 69 - 122 02/15/21 10:57 Dibromofluoromethane (Surr) 93 78-129 02/15/21 10:57

Lab Sample ID: LCS 240-473047/4

Matrix: Water

Analysis Batch: 473047

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	10.0	11.1		ug/L		111	73 - 129	
cis-1,2-Dichloroethene	10.0	10.6		ug/L		106	75 - 124	
Tetrachloroethene	10.0	11.4		ug/L		114	70 - 125	
trans-1,2-Dichloroethene	10.0	10.4		ug/L		104	74 - 130	
Trichloroethene	10.0	10.4		ug/L		104	71 - 121	
Vinyl chloride	10.0	9.92		ug/L		99	61 - 134	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 99 75 - 130 4-Bromofluorobenzene (Surr) 102 47 - 134 Toluene-d8 (Surr) 106 69-122 Dibromofluoromethane (Surr) 104 78-129

Lab Sample ID: 240-144277-B-2 MS

Matrix: Water

Analysis Batch: 473047

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

Analysis Daten. 473047	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	67	U	667	598		ug/L		90	64 - 132	
cis-1,2-Dichloroethene	1500		667	2140		ug/L		102	68 - 121	
Tetrachloroethene	56	J	667	634		ug/L		87	52 - 129	
Trichloroethene	1100		667	1670		ug/L		91	56 - 124	
Vinyl chloride	160		667	734		ug/L		86	49 - 136	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		75 - 130
4-Bromofluorobenzene (Surr)	95		47 - 134
Toluene-d8 (Surr)	105		69 - 122
Dibromofluoromethane (Surr)	99		78 - 129

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Client: ARCADIS U.S., Inc. Job ID: 240-144365-1 Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-144277-B-2 MSD

Matrix: Water

Analysis Batch: 473047

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	67	U	667	668		ug/L		100	64 - 132	11	35
cis-1,2-Dichloroethene	1500		667	2220		ug/L		113	68 - 121	3	35
Tetrachloroethene	56	J	667	730		ug/L		101	52 - 129	14	35
Trichloroethene	1100		667	1740		ug/L		101	56 - 124	4	35
Vinyl chloride	160		667	774		ug/L		92	49 - 136	5	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		75 - 130
4-Bromofluorobenzene (Surr)	90		47 - 134
Toluene-d8 (Surr)	99		69 - 122
Dibromofluoromethane (Surr)	99		78 - 129

Lab Sample ID: MB 240-473375/6

Matrix: Water

Analysis Batch: 473375

Client Sample ID: Method Blank

Prep Type: Total/NA

	IVID	IVID						
Analyte	Result	Qualifier	RL	MDL Unit	it D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19 ug/L			02/17/21 09:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16 ug/L	L		02/17/21 09:44	1
Tetrachloroethene	1.0	U	1.0	0.15 ug/L	L		02/17/21 09:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19 ug/L	L		02/17/21 09:44	1
Trichloroethene	1.0	U	1.0	0.10 ug/L	L		02/17/21 09:44	1
Vinyl chloride	1.0	U	1.0	0.20 ug/L	L		02/17/21 09:44	1

MB MB

Surrogate	%Recovery Qua	lifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99	75 - 130		02/17/21 09:44	1
4-Bromofluorobenzene (Surr)	96	47 - 134		02/17/21 09:44	1
Toluene-d8 (Surr)	104	69 - 122		02/17/21 09:44	1
Dibromofluoromethane (Surr)	99	78 - 129		02/17/21 09:44	1

Lab Sample ID: LCS 240-473375/4

Matrix: Water

Analysis Batch: 473375

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

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	10.0	9.85		ug/L		98	73 - 129	
cis-1,2-Dichloroethene	10.0	9.66		ug/L		97	75 - 124	
Tetrachloroethene	10.0	10.4		ug/L		104	70 - 125	
trans-1,2-Dichloroethene	10.0	9.74		ug/L		97	74 - 130	
Trichloroethene	10.0	9.92		ug/L		99	71 - 121	
Vinyl chloride	10.0	10.2		ug/L		102	61 - 134	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		75 - 130
4-Bromofluorobenzene (Surr)	96		47 - 134
Toluene-d8 (Surr)	100		69 - 122
Dibromofluoromethane (Surr)	98		78 - 129

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Client: ARCADIS U.S., Inc. Job ID: 240-144365-1

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-144438-B-2 MS

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

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

Matrix: Water

Analysis Batch: 473375

_	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1000	U	10000	8730		ug/L		87	64 - 132	
cis-1,2-Dichloroethene	21000	F1	10000	26900	F1	ug/L		63	68 - 121	
Tetrachloroethene	870	J	10000	9300		ug/L		84	52 - 129	
trans-1,2-Dichloroethene	200	J	10000	8950		ug/L		87	69 - 126	
Trichloroethene	6700		10000	14700		ug/L		80	56 - 124	
Vinyl chloride	1000	U	10000	9030		ug/L		90	49 - 136	

	IVIS	IVIS			
Surrogate	%Recovery	Qualifier	Limits		
1,2-Dichloroethane-d4 (Surr)	90		75 - 130		
4-Bromofluorobenzene (Surr)	89		47 - 134		
Toluene-d8 (Surr)	97		69 - 122		
Dibromofluoromethane (Surr)	96		78 - 129		

Lab Sample ID: 240-144438-B-2 MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Water** Prep Type: Total/NA

Analysis Batch: 473375

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1000	U	10000	9900	-	ug/L		99	64 - 132	13	35
cis-1,2-Dichloroethene	21000	F1	10000	29700		ug/L		91	68 - 121	10	35
Tetrachloroethene	870	J	10000	10900		ug/L		101	52 - 129	16	35
trans-1,2-Dichloroethene	200	J	10000	9770		ug/L		96	69 - 126	9	35
Trichloroethene	6700		10000	15400		ug/L		87	56 - 124	5	35
Vinyl chloride	1000	U	10000	9850		ug/L		99	49 - 136	9	35

	MSD	MSD			
Surrogate	%Recovery	Qualifier	Limits		
1,2-Dichloroethane-d4 (Surr)	87		75 - 130		
4-Bromofluorobenzene (Surr)	83		47 - 134		
Toluene-d8 (Surr)	92		69 - 122		
Dibromofluoromethane (Surr)	90		78 - 129		

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

Lab Sample ID: MB 240-472900/5	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 472900	
MD MD	

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86 ug/L			02/12/21 12:29	1
	MB	MB						

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82	70 - 133		02/12/21 12:29	1

Eurofins TestAmerica, Canton

Job ID: 240-144365-1

Prep Type: Total/NA

Prep Type: Total/NA

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Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Project/Site: Ford LTP - Off Site

Client: ARCADIS U.S., Inc.

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

Lab Sample ID: LCS 240-472900/4

Matrix: Water

Analysis Batch: 472900

Alialysis Dalcii. 472300								
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	10.0	10.6	-	ug/L		106	80 - 135	

LCS LCS

%Recovery Qualifier Surrogate Limits 70 - 133 1,2-Dichloroethane-d4 (Surr)

Lab Sample ID: 240-144376-F-3 MS

Matrix: Water				Prep Type: Total/NA
Analysis Batch: 472900				
	Sample Sample	Spike	MS MS	%Rec.

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 2.0 U 10.0 10.8 ug/L 108 46 - 170

MS MS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 83 70 - 133

Lab Sample ID: 240-144376-F-3 MSD

Matrix: Water

Analysis Batch: 472900

Analysis Baton, 412000												
	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	10.8		ug/L		108	46 - 170	1	26	

MSD MSD

Surrogate Limits **%Recovery Qualifier** 1,2-Dichloroethane-d4 (Surr) 82 70 - 133

Eurofins TestAmerica, Canton

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QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 240-144365-1 Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 472900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144365-2	MW-91S_020921	Total/NA	Water	8260B SIM	
MB 240-472900/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-472900/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-144376-F-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-144376-F-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 473047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144365-1	TRIP BLANK	Total/NA	Water	8260B	
MB 240-473047/6	Method Blank	Total/NA	Water	8260B	
LCS 240-473047/4	Lab Control Sample	Total/NA	Water	8260B	
240-144277-B-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-144277-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 473375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144365-2	MW-91S_020921	Total/NA	Water	8260B	
MB 240-473375/6	Method Blank	Total/NA	Water	8260B	
LCS 240-473375/4	Lab Control Sample	Total/NA	Water	8260B	
240-144438-B-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-144438-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-144365-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK Lab Sample ID: 240-144365-1 Date Collected: 02/09/21 00:00

Matrix: Water

Date Received: 02/11/21 08:00

Dilution Prepared Batch Batch **Batch Prep Type** Method Run **Factor** Number or Analyzed Analyst Type Lab TAL CAN Total/NA Analysis 8260B 473047 02/15/21 18:21 LEE

Lab Sample ID: 240-144365-2 Client Sample ID: MW-91S 020921

Date Collected: 02/09/21 11:41 **Matrix: Water**

Date Received: 02/11/21 08:00

-	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	473375	02/17/21 10:51	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	472900	02/12/21 18:22	SAM	TAL CAN

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-144365-1

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	02-23-21
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-21
lowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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Client Contact Company Name: Arcadis Address: 28550 Cabot Drive, Suite 500	TestAmerica Laboratory location: Brighton	oratory location							10440 CITATION DILIVE, SUITE 2007 BRIGHTON, IMI 401 10 7 0 10-223-27 03			25.75					1		THE LEADER IN ENVIRONMENTAL TESTING	NIAL TESTER
Address: 28550 Cabot Drive, Suite 500	Regi	Regulatory program:		Lu.	š	Ž	NPDES	Ž.	RCRA		Other					66	061			
Address: 28550 Cabot Drive, Suite 500	Client Proje	Client Project Manager: Kris Hinskey	Hinskey			Site Co	ntact: Ju	Site Contact: Julia McClafferty	afferty			Lab Co	ntact:	dike De	Lab Contact: Mike DelMonico				COC No:	atories, in
Cib. (Ct. 1/21. N. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Telephone:	Telephone: 248-994-2240				Telenh	one: 734	Telenhone: 734-644-5133				Telenb	one. 13	Telenbone: 110,407,0106	106					
City/State/Zap: 1404, Mil, 405/										ļ			OHE: 33						l of l	COCs
Phone: 248-994-2240	Email: kris	Email: kristoffer.hinskey@arcadis.com	rcadis.co	2		- F	niysis 1 u	Analysis I urbaround 11me	age 1				\vdash	\	Analyses	s			For lab use only	
Project Name: Ford LTP Off-Site	Sampler Name:	ime:	BA	古		TATira	ent fir	3 weeks											Walk-in client	
Project Number: 30050315.402.04	Method of S	Method of Shipment/Carrier:				TU day			n	_	9 =		8			MIS		_	Lab sampling	
PO#30050315.402.04	Shipping/Tracking No:	acking No:						2 days				8097	8260		82608	S 8097			Job/SDG No:	
			止	Matrix		٥	antainers	Containers & Preservatives	tives			CE 83			epino	28 au			-	
Sample Identification	Sample Date	ite Sample Time	riA enosupA	Sediment	:тэвэО	H7SO4	HCI	HORN HORN	Unpres:	Filtered	Composi	G-S, f-eio	Trans-1,2 PCE 826	TCE 826	Vinyl Chl	sxoiQ-4,1		-	Sample Specific Notes/ Special Instructions:	Notes/ ctions:
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Possible Hazard Identification Non-Hazard	<in irritant="" p<="" td=""><td>Poison B</td><td>Unknow</td><td>-</td><td>-</td><td>Sam</td><td>ple Disp</td><td>Sample Disposal (A fee may be assessed if samples are retained longer than I month) Return to Client Disposal By Lab</td><td>e may be</td><td>e assessed if sam</td><td>d if sam</td><td>oles are</td><td>retained</td><td>ained longer</td><td>than 1</td><td>nonth)</td><td></td><td></td><td></td><td></td></in>	Poison B	Unknow	-	-	Sam	ple Disp	Sample Disposal (A fee may be assessed if samples are retained longer than I month) Return to Client Disposal By Lab	e may be	e assessed if sam	d if sam	oles are	retained	ained longer	than 1	nonth)				
s/QC Requirements & Comments:																				
Submit all results through Cadena at įtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	enaco.com. Caden	ia #E203631																		
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WI-NC-099

were further preserved in the laboratory.

20. SAMPLE PRESERVATION

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

VOA Sample Preservation - Date/Time VOAs Frozen:

Sample(s)

DATA VERIFICATION REPORT



February 19, 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: 30050315.402.04 off site

Event Specific Scope of Work References: Sample COC

Laboratory: TestAmerica - North Canton

Laboratory submittal: 144365-1 Sample date: 2021-02-09

Report received by CADENA: 2021-02-19

Initial Data Verification completed by CADENA: 2021-02-19

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 MS/MSD recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

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: 144365-1

	Sample Name: Lab Sample ID: Sample Date:	TRIP BLANK 2401443651 2/9/2021	NK 651			MW-915_020921 2401443652 2/9/2021	_02092; 652 1	_	
			Report		Valid		Report		Valid
Analyte	Cas No.	Result Limit	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC									
OSW-8260B									
1,1-Dichloroethene	75-35-4	ND	1.0	l/gn		ND	1.0	l/gn	
cis-1,2-Dichloroethene	156-59-2	ND	1.0	l/gn		ND	1.0	l/gn	
Tetrachloroethene	127-18-4	N	1.0	l/gn		ND	1.0	l/gn	!
trans-1,2-Dichloroethene	156-60-5	ND	1.0	l/gn	1	ND	1.0	l/gn	-
Trichloroethene	79-01-6	N	1.0	l/gn		ND	1.0	l/gn	
Vinyl chloride	75-01-4	N	1.0	l/gn		ND	1.0	l/gn	}
OSW-8260BBSim									
1,4-Dioxane	123-91-1					ND	2.0	l/gn	-



Ford Motor Company – Livonia Transmission Project

DATA REVIEW

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-144365-1

CADENA Verification Report: 2021-02-19

Analyses Performed By:

TestAmerica North Canton, Ohio

Report #40459R Review Level: Tier III Project: 30050315.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-144365-1 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 ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis VOC
TRIP BLANK	240-144365-1	Water	02/09/2021		X
MW-91S_020921	240-144365-2	Water	02/09/2021		X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

	Rep	orted	Performance Acceptable		Not
Items Reviewed	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
2. Requested analyses and sample results		X		Х	
3. Master tracking list		X		X	
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	
9. 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.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260B/8260B-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		X	
Tier III Validation					
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		X	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		X	
Ion abundance criteria for each instrument used		Х		X	
Field Duplicate RPD	Х				X
Internal standard		Х		X	
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: Prashanth K

SIGNATURE:

DATE: March 09, 2021

PEER REVIEW: Andrew Korycinski

DATE: March 10, 2021

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

MICHIGAN TestAmerica TestAmerica Laboratories, Inc. ICOC No: 3 VOAS for 8260B D. 51 8 Sample Specific Notes / Special Instructions: Tring Blank or lab use only Walk-in client Lab sampling Job/SDG No: 240-144365 Chain of Custody 1000 Months Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Return to Client

Disposal By Lab
Archive For Mo MIS 80058 enexoid-4. Lab Contact: Mike DelMonico Telephone: 330-497-9396 LCE 8590B X OCE 85008 X X X Trans-1,2-DCE 8260B 18-113-DCE 8560B × 1-DCE 8560B × Other 0 D=danD \ D=ssiteqmeD \geq Filtered Sample (Y / N) Received by: Site Contact: Julia McClafferty Analysis Turnaround Time :nadic RCRA 3 weeks Unpres 2 weeks l week Telephone: 734-644-5131 2 days 1 day HOUS [AT if different from below /aAn3 HORN 9 NPDES ЮH 10 day EONH HVSO4 HOE/01/2 :тэф1О Date/Time: 2/9/21 DW pilos Bantt Date/Time: Email: kristoffer.hinskey@arcadis.com Unknown 9 Client Project Manager: Kris Hinskey ηİΑ Regulatory program: Sample Time Method of Shipment/Carrier: Andrew 14 Telephone: 248-994-2240 Submit all results through Cadena at jtomalla@cadenaco.com. Cadena #E203631 Shipping/Tracking No: Company: Poison B Sampler Name: Sample Date 2/4/21 sin Irritant special Instructions/QC Requirements & Comments: Sample Identification Client Contact MW-915-020921 Address: 28550 Cabot Drive, Suite 500 Project Number: 30050315,402,04 roject Name: Ford LTP Off-Site evel IV Reporting requested. Possible Hazard Identification City/State/Zip: Novi, MI, 48377 Company Name: Arcadis **TRIP BLANK** PO # 30050315.402.04 hone: 248-994-2240 Relinquished by: 0 Relinguished by: Relinquished by: Page 395 of 396

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-144365-1

Client Sample ID: TRIP BLANK

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-144365-1

Date Collected: 02/09/21 00:00 **Matrix: Water** Date Received: 02/11/21 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/15/21 18:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/15/21 18:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/15/21 18:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/15/21 18:21	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/15/21 18:21	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/15/21 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 130					02/15/21 18:21	1
4-Bromofluorobenzene (Surr)	90		47 - 134					02/15/21 18:21	1
Toluene-d8 (Surr)	96		69 - 122					02/15/21 18:21	1
Dibromofluoromethane (Surr)	100		78 - 129					02/15/21 18:21	1

Client Sample ID: MW-91S 020921 Lab Sample ID: 240-144365-2

Date Collected: 02/09/21 11:41 Date Received: 02/11/21 08:00

Method: 8260B SIM - Volatile Organic Compounds (GC/MS) Result Qualifier Analyte MDL Unit D Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 02/12/21 18:22

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		70 - 133				_	02/12/21 18:22	1
Method: 8260B - Volatile Organ Analyte		unds (GC/N Qualifier	/IS)	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0 U	1.0	0.19 ug/L		02/17/21 10:51	1
cis-1,2-Dichloroethene	1.0 U	1.0	0.16 ug/L		02/17/21 10:51	1
Tetrachloroethene	1.0 U	1.0	0.15 ug/L		02/17/21 10:51	1
trans-1,2-Dichloroethene	1.0 U	1.0	0.19 ug/L		02/17/21 10:51	1
Trichloroethene	1.0 U	1.0	0.10 ug/L		02/17/21 10:51	1
Vinyl chloride	1.0 U	1.0	0.20 ug/L		02/17/21 10:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 130		02/17/21 10:51	1
4-Bromofluorobenzene (Surr)	95		47 - 134		02/17/21 10:51	1
Toluene-d8 (Surr)	104		69 - 122		02/17/21 10:51	1
Dibromofluoromethane (Surr)	101		78 - 129		02/17/21 10:51	1

Matrix: Water