

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 240-149392-1 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: 5/28/2021 2:00:09 PM

Michael DelMonico, Project Manager I (330)497-9396 Michael.DelMonico@Eurofinset.com

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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: 240-149392-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 240-149392-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

E Result exceeded calibration range.

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.

Job ID: 240-149392-1

Project/Site: Ford LTP - Off Site

Job ID: 240-149392-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-149392-1

Comments

No additional comments.

Receipt

The samples were received on 5/14/2021 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 2.8° C.

GC/MS VOA

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.

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Method Summary

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

Method DescriptionProtocolLaboratoryVolatile Organic Compounds (GC/MS)SW846TAL CANVolatile Organic Compounds (GC/MS)SW846TAL CAN

Protocol References:

Purge and Trap

Method

8260B SIM

8260B

5030B

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

Job ID: 240-149392-1

TAL CAN

SW846

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Sample Summary

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

Job ID: 240-149392-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-149392-1	TRIP BLANK_64	Water	05/12/21 00:00	05/14/21 08:00	
240-149392-2	MW-173S_051221	Water	05/12/21 14:01	05/14/21 08:00	

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Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-149392-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_64 Lab Sample ID: 240-149392-1

No Detections.

Client Sample ID: MW-173S_051221 Lab Sample ID: 240-149392-2

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-149392-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_64

Date Collected: 05/12/21 00:00 Date Received: 05/14/21 08:00

Lab Sample ID: 240-149392-1 **Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/21/21 18:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/21/21 18:02	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/21/21 18:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/21/21 18:02	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/21/21 18:02	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/21/21 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			75 - 130					05/21/21 18:02	1
4-Bromofluorobenzene (Surr)	94		47 - 134					05/21/21 18:02	1
Toluene-d8 (Surr)	103		69 - 122					05/21/21 18:02	1
Dibromofluoromethane (Surr)	111		78 - 129					05/21/21 18:02	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-149392-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-173S_051221

Date Collected: 05/12/21 14:01 Date Received: 05/14/21 08:00

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Lab Sample ID: 240-149392-2

05/24/21 17:04

05/24/21 17:04

Matrix: Water

Method: 8260B SIM - Volat Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L		-	05/18/21 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		70 - 133					05/18/21 17:44	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/24/21 17:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/24/21 17:04	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/24/21 17:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/24/21 17:04	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/24/21 17:04	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/24/21 17:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 130			•	-	05/24/21 17:04	1
4-Bromofluorobenzene (Surr)	93		47 - 134					05/24/21 17:04	1

69 - 122

78 - 129

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Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-149392-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surro	ogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(75-130)	(47-134)	(69-122)	(78-129)
190-25914-B-1 MS	Matrix Spike	103	99	104	107
190-25914-B-1 MSD	Matrix Spike Duplicate	112	100	104	116
240-149312-C-10 MS	Matrix Spike	104	105	103	111
240-149312-C-10 MSD	Matrix Spike Duplicate	109	109	107	110
240-149392-1	TRIP BLANK_64	113	94	103	111
240-149392-2	MW-173S_051221	106	93	101	105
LCS 240-486953/5	Lab Control Sample	106	103	103	113
LCS 240-487189/5	Lab Control Sample	100	102	106	106
MB 240-486953/7	Method Blank	106	94	102	103
MB 240-487189/7	Method Blank	100	95	99	107

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	(70-133)	
240-149392-2	MW-173S_051221	83	
240-149470-H-4 MS	Matrix Spike	84	
240-149470-N-4 MSD	Matrix Spike Duplicate	81	
LCS 240-486375/4	Lab Control Sample	82	
MB 240-486375/5	Method Blank	83	
Surrogate Legend			
DCA = 1,2-Dichloroeth	ane-d4 (Surr)		

Client: ARCADIS U.S., Inc.

Job ID: 240-149392-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-486953/7

Matrix: Water

Analysis Batch: 486953

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

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 1,1-Dichloroethene 1.0 U 1.0 0.19 ug/L 05/21/21 15:31 cis-1,2-Dichloroethene 1.0 U 1.0 0.16 ug/L 05/21/21 15:31 Tetrachloroethene 1.0 U 1.0 0.15 ug/L 05/21/21 15:31 trans-1,2-Dichloroethene 1.0 U 1.0 0.19 ug/L 05/21/21 15:31 Trichloroethene 1.0 0.10 ug/L 1.0 U 05/21/21 15:31 Vinyl chloride 1.0 U 1.0 0.20 ug/L 05/21/21 15:31

	MB I	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 130		05/21/21 15:31	1
4-Bromofluorobenzene (Surr)	94		47 - 134		05/21/21 15:31	1
Toluene-d8 (Surr)	102		69 - 122		05/21/21 15:31	1
Dibromofluoromethane (Surr)	103		78 - 129		05/21/21 15:31	1

Lab Sample ID: LCS 240-486953/5

Matrix: Water

Analysis Batch: 486953

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	25.0	27.6		ug/L		111	73 - 129
cis-1,2-Dichloroethene	25.0	29.1		ug/L		116	75 - 124
Tetrachloroethene	25.0	28.0		ug/L		112	70 - 125
trans-1,2-Dichloroethene	25.0	27.2		ug/L		109	74 - 130
Trichloroethene	25.0	27.0		ug/L		108	71 - 121
Vinyl chloride	25.0	24.0		ug/L		96	61 - 134

	LUS	LUS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		75 - 130
4-Bromofluorobenzene (Surr)	103		47 - 134
Toluene-d8 (Surr)	103		69 - 122
Dibromofluoromethane (Surr)	113		78 - 129

Lab Sample ID: 190-25914-B-1 MS

Matrix: Water

Analysis Batch: 486953

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	10	U	250	247		ug/L		99	64 - 132	
cis-1,2-Dichloroethene	110		250	391		ug/L		114	68 - 121	
Tetrachloroethene	10	U	250	264		ug/L		106	52 - 129	
trans-1,2-Dichloroethene	18		250	288		ug/L		108	69 - 126	
Trichloroethene	17		250	282		ug/L		106	56 - 124	
Vinyl chloride	9.4	J	250	243		ug/L		93	49 - 136	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		75 - 130
4-Bromofluorobenzene (Surr)	99		47 - 134
Toluene-d8 (Surr)	104		69 - 122

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Client: ARCADIS U.S., Inc. Job ID: 240-149392-1

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

Lab Sample ID: 190-25914-B-1 MS

Matrix: Water

Analysis Batch: 486953

Project/Site: Ford LTP - Off Site

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 107 78 - 129

Lab Sample ID: 190-25914-B-1 MSD

Matrix: Water

Analysis Batch: 486953

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Client Sample ID: Matrix Spike

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	10	U	250	259		ug/L		104	64 - 132	5	35
cis-1,2-Dichloroethene	110		250	399		ug/L		117	68 - 121	2	35
Tetrachloroethene	10	U	250	246		ug/L		99	52 - 129	7	35
trans-1,2-Dichloroethene	18		250	295		ug/L		111	69 - 126	3	35
Trichloroethene	17		250	277		ug/L		104	56 - 124	2	35
Vinyl chloride	9.4	J	250	249		ug/L		96	49 - 136	2	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		75 - 130
4-Bromofluorobenzene (Surr)	100		47 - 134
Toluene-d8 (Surr)	104		69 - 122
Dibromofluoromethane (Surr)	116		78 - 129

Lab Sample ID: MB 240-487189/7

Matrix: Water

Analysis Batch: 487189

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/24/21 14:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/24/21 14:34	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/24/21 14:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/24/21 14:34	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/24/21 14:34	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/24/21 14:34	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 130	05/24/21 14:34	. 1
4-Bromofluorobenzene (Surr)	95		47 - 134	05/24/21 14:34	. 1
Toluene-d8 (Surr)	99		69 - 122	05/24/21 14:34	. 1
Dibromofluoromethane (Surr)	107		78 - 129	05/24/21 14:34	. 1

Lab Sample ID: LCS 240-487189/5

Matrix: Water

Analysis Batch: 487189

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	25.0	25.9		ug/L		104	73 - 129	
cis-1,2-Dichloroethene	25.0	27.5		ug/L		110	75 - 124	
Tetrachloroethene	25.0	27.2		ug/L		109	70 - 125	
trans-1,2-Dichloroethene	25.0	27.5		ug/L		110	74 - 130	
Trichloroethene	25.0	26.0		ug/L		104	71 - 121	

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Client: ARCADIS U.S., Inc. Job ID: 240-149392-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: LCS 240-487189/5

Matrix: Water

Analysis Batch: 487189

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Vinyl chloride 25.0 22.3 ug/L 89 61 - 134

Limits

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		75 - 130
4-Bromofluorobenzene (Surr)	102		47 - 134
Toluene-d8 (Surr)	106		69 - 122
Dibromofluoromethane (Surr)	106		78 - 129

Client Sample ID: Matrix Spike

Matrix: Water

Analysis Batch: 487189

Lab Sample ID: 240-149312-C-10 MS

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits cis-1,2-Dichloroethene 6800 4170 11200 106 68 - 121 ug/L trans-1,2-Dichloroethene 85 J 4170 4500 106 69 - 126 ug/L Trichloroethene 23000 E 4170 26300 E4 ug/L 89 56 - 124 Vinyl chloride 170 U 4170 3850 93 49 - 136 ug/L

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		75 - 130
4-Bromofluorobenzene (Surr)	105		47 - 134
Toluene-d8 (Surr)	103		69 - 122
Dibromofluoromethane (Surr)	111		78 - 129

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 487189

Lab Sample ID: 240-149312-C-10 MSD

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
cis-1,2-Dichloroethene	6800		4170	11400		ug/L		111	68 - 121	2	35
trans-1,2-Dichloroethene	85	J	4170	4670		ug/L		110	69 - 126	4	35
Trichloroethene	23000	E	4170	26200	E 4	ug/L		85	56 - 124	1	35
Vinyl chloride	170	U	4170	3930		ug/L		94	49 - 136	2	35

MSD MSD Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 109 75 - 130 4-Bromofluorobenzene (Surr) 109 47 - 134 Toluene-d8 (Surr) 107 69 - 122 Dibromofluoromethane (Surr) 78 - 129 110

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

Lab Sample ID: MB 240-486375/5

Matrix: Water

Analysis Batch: 486375

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

MB MB Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 05/18/21 16:05 2.0 U 0.86 ug/L

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Job ID: 240-149392-1

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

Client Sample ID: Method Blank

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 486375

MB MB

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

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 83 70 - 133 05/18/21 16:05

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Lab Sample ID: LCS 240-486375/4

Lab Sample ID: MB 240-486375/5

Matrix: Water

Analysis Batch: 486375

Spike LCS LCS %Rec. Added Result Qualifier Limits **Analyte** Unit D %Rec 1,4-Dioxane 10.0 10.5 ug/L 105 80 - 135

LCS LCS

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

Lab Sample ID: 240-149470-H-4 MS **Client Sample ID: Matrix Spike Matrix: Water** Prep Type: Total/NA

Analysis Batch: 486375

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 1.3 J 10.0 12.4 46 - 170 ug/L 111

MS MS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 84 70 - 133

Lab Sample ID: 240-149470-N-4 MSD

Matrix: Water

Analysis Batch: 486375

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 1,4-Dioxane 10.0 11.5 26 1.3 J ug/L 102 46 - 170

MSD MSD

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 70 - 133 81

Eurofins TestAmerica, Canton

QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-149392-1

GC/MS VOA

Analysis Batch: 486375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149392-2	MW-173S 051221	Total/NA	Water	8260B SIM	_ Trep Batch
	_				
MB 240-486375/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-486375/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-149470-H-4 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-149470-N-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 486953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149392-1	TRIP BLANK_64	Total/NA	Water	8260B	
MB 240-486953/7	Method Blank	Total/NA	Water	8260B	
LCS 240-486953/5	Lab Control Sample	Total/NA	Water	8260B	
190-25914-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
190-25914-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 487189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149392-2	MW-173S_051221	Total/NA	Water	8260B	
MB 240-487189/7	Method Blank	Total/NA	Water	8260B	
LCS 240-487189/5	Lab Control Sample	Total/NA	Water	8260B	
240-149312-C-10 MS	Matrix Spike	Total/NA	Water	8260B	
240-149312-C-10 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-149392-1

Project/Site: Ford LTP - Off Site

Date Received: 05/14/21 08:00

Client Sample ID: TRIP BLANK_64

Lab Sample ID: 240-149392-1 Date Collected: 05/12/21 00:00

Matrix: Water

Lab TAL CAN

Batch Batch Dilution Batch Prepared **Prep Type** Method **Factor** Number or Analyzed Type Run Analyst Total/NA Analysis 8260B 486953 05/21/21 18:02 SAM

Client Sample ID: MW-173S_051221 Lab Sample ID: 240-149392-2

Date Collected: 05/12/21 14:01 **Matrix: Water**

Date Received: 05/14/21 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	487189	05/24/21 17:04	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	486375	05/18/21 17:44	CS	TAL CAN

Laboratory References:

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

5/28/2021

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-149392-1 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	06-30-21
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-21
lowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21 *
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
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

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

Chain of Custody Record

Client Contact	7 Regular	ory program:			DW			NPI				RCRA		Ot	10-228			IV.	111	0 		DAI		MII LEADER IN ENVIRONMENTAL TESTING
Company Name: Arcadis	- Kegulai	ory program.		1	Dii			NI I	JE.S			CKA	1	Ot	ner					1	9(J		TestAmerica Laboratories, Inc.
	Client Project	Manager: Kris	Hinsk	2y	- '-		Site Contact: Julia McClafferty					Lab Contact: Mike DelMonico					COC No:							
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	004 2240					T-1					7.1.1.22222222												
City/State/Zip: Novi, MI, 48377	Terephone. 246	-774-2240					Telephone: 734-644-5131				Telephone: 330-497-9396				1 of 1 COCs									
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.c	om				Ana	ysis l	urn	aroun	d Time				-	,		A	nalys	cs			For lab use only
Frienc: 248-994-2240	Sampler Name						TA	T if dif	Ferent fr	rom be	low		-											Walk-in client
Project Name: Ford LTP Off-Site			`							[3 wee													Work-in circut
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Sample Identification	Sample Date	Sample Time	4	Aqueous	Solid	Other;	H2SO4	HN03	HC	HOR	ZaAc/ NaOH	Unpres Other:	3	Composite=C/Grab=G	1,1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride	1,4-Dioxane 8260B SIM			Special Instructions:
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Special Instructions/QC Requirements & Comments:			O.M.				_	_	ixettii i	110	chem		Disp	rosai L	у гао			ictive	LOL ?		NIC	ontins	_	
Submit all results through Cadena at jtomalia@cadenaco. Level IV Reporting requested.	com. Cadena #	E203631																						
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Page 18 of 19











18. CHAIN OF CUSTODY & SAMPI	LE DISCREFANCIES	additional next page	Samples processed by:
19. SAMPLE CONDITION			
Sample(s)	were received	after the recommended hol	ding time had expired.
Sample(s)			
Sample(s)			
20. SAMPLE PRESERVATION			
o. Savii de i Reservation			
Sample(s)Preserva		were fi	urther preserved in the laboratory.

WI-NC-099

DATA VERIFICATION REPORT



May 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_W01 OFF-SITE GW Event Specific Scope of Work References: Sample COC

Laboratory: TestAmerica - North Canton

Laboratory submittal: 149392-1 Sample date: 2021-05-12

Report received by CADENA: 2021-05-28

Initial Data Verification completed by CADENA: 2021-05-29

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.

There were no significant QC anomalies or exceptions to report.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

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

Analytical Results Summary

Reportable Results Only

CADENA Project ID: E203631

Laboratory: TestAmerica - North Canton

Laboratory Submittal: 149392-1

	Sample Name: Lab Sample ID: Sample Date:	TRIP BL/ 2401493 5/12/20	3921 21			MW-173S_051221 2401493922 5/12/2021			
Amali	uto Cos No	Dogula	Report	Llmita	Valid Qualifier	Dogula	Report	l leite	Valid
Anal	yte Cas No.	Result	Limit	Units	Quaimer	Result	Limit	Units	Qualifier
GC/MS VOC									
OSW-8260B									
1,1-Dichloroeth	nene 75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
cis-1,2-Dichloro	pethene 156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
Tetrachloroethe	ene 127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
trans-1,2-Dichlo	proethene 156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
Trichloroethene	e 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-8260BBSim									
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 # 240-149392-1

CADENA Verification Report: 2021-05-29

Analyses Performed By: TestAmerica

North Canton, Ohio

Report # 41607R Review Level: Tier III Project: 30080642.402.04

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-149392-1 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:

		Lab ID Matrix Sample Collection			Analysis			
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM		
TRIP BLANK_64	240-149392-1	Water	05/12/2021		Х			
MW-173S_051221	240-149392-2	Water	05/12/2021		X	X		

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

	Rep	orted		mance ptable	Not Required	
Items Reviewed	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.

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 eptable	Not
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation					-
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
lon abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		Х		Х	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Hrishikesh Upadhyaya

SIGNATURE: Cuindinlund

DATE: June 22, 2021

PEER REVIEW: Andrew Korycinski

DATE: June 24, 2021

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

2.7128

Chain of Custody Record

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

MICHIGAN

<u>TestAmerica</u>

Client Contact	Regulat	tory program:			- DW	i.	_	NPDE	c	-	RCR/	<u> </u>		Other		-		T.A	XX	<u> </u>		0						
Company Name: Arcadis					D.,			NEDE:		_	KGK/	л ——		Other	-]	9	U				TestAme	rica Labora	tories,
Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey Telephone: 248-994-2240						Site Contact: Julia McClafferty								Lab Contact: Mike DelMonico Telephone: 330-497-9396 Analyses							1 of 1 COCs						
							Telephone: 734-644-5131 Analysis Turnaround Time						\neg															
City/State/Zip: Novi, MI, 48377	Email: kristoffer.hinskey@arcadis.com												-	COCs														
Phone: 248-994-2240	C 1 N			_			TAT	75.17.00													T			T			7-12-1	
Project Name: Ford LTP Off-Site	Sampler Name	1	^					if differe	1	3 w														Walk-in cli	ent			
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PO # 30080642.402.04	Shipping/Track						-			2 da	ys		(N))=qr		8	8260B			80	B SII							
O # 30000042,402.04	Snipping/Track	ung No:								I da			ple ()	7 Cr	8	3260	E 82			8260B	3260	}				Job/SDG N	lo:	
				M	latrix	1		Contai	ners &	k Prese	rvative	es	Sam	lte=C	826	CE (2-DC	90B	8	oride	ane 8							
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Solid	Other:	H2SO4	HN03	NaOH	ZaAc/ NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite=C / Grab=G	1.1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE	PCE 8260B	TCE 8260B	Vinyl Chloride	1,4-Dioxane 8260B SIM						ple Specific ! cial Instruct	
				X				1							X	X	X	X	X	X	X					1 Trip	Blank	
Trip Blank - 64 MW-1735-051221	05/1		П							\top			,,				<u> </u>			1.		+	+-			3 VO/	As for 8260)B
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special Instructions/QC Requirements & Comments:																												
Submit all results through Cadena at jtomalia@cadenaco.c Level IV Reporting requested.	com. Cadena #	E203631																										
Relinquished by a Achar	Company:			Date /	ime:	/	82:	25	Red	ceived	by:	10v	i G	old	St	da	M		Com	pany:	As	rad	li v			Date/Time:	121 8 7	25
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Relinquished by:	Company:	7		Date/T	113/	121	/<	519	Re	ceived	in La	borato	ry by		_				Com	pany:	n					Date/Time	1219	30

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-149392-1

Client Sample ID: TRIP BLANK_64

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-149392-1

Date Collected: 05/12/21 00:00 **Matrix: Water** Date Received: 05/14/21 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			05/21/21 18:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/21/21 18:02	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/21/21 18:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/21/21 18:02	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/21/21 18:02	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/21/21 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 130					05/21/21 18:02	1
4-Bromofluorobenzene (Surr)	94		47 - 134					05/21/21 18:02	1
Toluene-d8 (Surr)	103		69 - 122					05/21/21 18:02	1
Dibromofluoromethane (Surr)	111		78 - 129					05/21/21 18:02	1

Client Sample ID: MW-173S_051221 Lab Sample ID: 240-149392-2

Date Collected: 05/12/21 14:01 Date Received: 05/14/21 08:00

Method: 8260B SIM - Volatile Organic Compounds (GC/MS) Result Qualifier MDL Unit D Prepared Analyzed Dil Fac

1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/18/21 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		70 - 133			•		05/18/21 17:44	1
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	0.19	ug/L			05/24/21 17:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/24/21 17:04	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/24/21 17:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/24/21 17:04	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/24/21 17:04	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/24/21 17:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 130					05/24/21 17:04	1
4-Bromofluorobenzene (Surr)	93		47 - 134					05/24/21 17:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	106		75 - 130		05/24/21 17:04	1	
4-Bromofluorobenzene (Surr)	93		47 - 134		05/24/21 17:04	1	
Toluene-d8 (Surr)	101		69 - 122		05/24/21 17:04	1	
Dibromofluoromethane (Surr)	105		78 - 129		05/24/21 17:04	1	

Matrix: Water