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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 240-170887-1

Client Project/Site: Ford LTP - Off Site

For:

..... Links

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Ask— The Expert ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Attn: Kristoffer Hinskey

Mole Del your

Authorized for release by: 8/9/2022 10:45:39 AM

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

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.

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Qualifiers

GC/MS VO	Α	
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	5

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 240-170887-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-170887-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 8/3/2022 9:45 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 2.5° C.

GC/MS VOA

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

VOA Prep

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

1 2 3 4 5 6 7 8 9 10 11 12 13 14

Method Summary

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

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

Protocol References:

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

Laboratory References:

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

Sample Summary

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-170887-1	TRIP BLANK_28	Water	08/01/22 00:00	08/03/22 09:45
240-170887-2	MW-173S_080122	Water	08/01/22 14:00	08/03/22 09:45

Detection Summary

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

Client Sample ID: TRIP BLANK_28

No Detections.

Client Sample ID: MW-173S_080122

No Detections.

Lab Sample ID: 240-170887-1

Lab Sample ID: 240-170887-2

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK_28 Date Collected: 08/01/22 00:00 Date Received: 08/03/22 09:45

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000	·ю.	270	110001	

Lab Sample ID: 240-170887-1 Matrix: Water

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/05/22 14:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/05/22 14:24	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/05/22 14:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/05/22 14:24	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/05/22 14:24	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/05/22 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137					08/05/22 14:24	1
4-Bromofluorobenzene (Surr)	85		56 - 136					08/05/22 14:24	1
Toluene-d8 (Surr)	98		78 - 122					08/05/22 14:24	1
Dibromofluoromethane (Surr)	100		73 - 120					08/05/22 14:24	1

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-173S_080122 Date Collected: 08/01/22 14:00 Date Received: 08/03/22 09:45

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/05/22 21:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		66 - 120					08/05/22 21:51	1
Method: 8260D - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/05/22 16:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/05/22 16:29	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/05/22 16:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/05/22 16:29	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/05/22 16:29	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/05/22 16:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137					08/05/22 16:29	1
4-Bromofluorobenzene (Surr)	88		56 - 136					08/05/22 16:29	1

78 - 122

73 - 120

99

101

Lab Sample ID: 240-170887-2 Matrix: Water

08/05/22 16:29

08/05/22 16:29

rix: water

5

8

Surrogate Summary

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

atrix: Water						Prep Type: Total/
		ogate Recovery (Ac	ceptance Limits)			
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-170887-1	TRIP BLANK_28	99	85	98	100	
240-170887-2	MW-173S_080122	99	88	99	101	
240-170891-A-2 MS	Matrix Spike	94	98	98	100	
240-170891-C-2 MSD	Matrix Spike Duplicate	94	102	99	99	
LCS 240-537713/4	Lab Control Sample	93	96	99	100	
MB 240-537713/7	Method Blank	97	88	96	100	
Surrogate Legend						
DCA = 1,2-Dichloroeth	ane-d4 (Surr)					
BFB = 4-Bromofluorob	enzene (Surr)					
TOL = Toluene-d8 (Sur	r)					
	omethane (Surr)					

			Percent Surrogate Recovery (Acceptance Limits)	-
		DCA		
Lab Sample ID	Client Sample ID	(66-120)		Ē
240-170886-F-2 MS	Matrix Spike	80		
240-170886-F-2 MSD	Matrix Spike Duplicate	83		
240-170887-2	MW-173S_080122	81		
LCS 240-537705/3	Lab Control Sample	80		
MB 240-537705/4	Method Blank	82		
Surrogate Legend				

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

Job ID: 240-170887-1

13

Vinyl chloride

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

Lab Sample ID: MB 240-537713/7 **Matrix: Water**

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

Analyzed

08/05/22 13:09

Analysis Batch: 537713 MB MB Analyte **Result Qualifier** RL MDL Unit D Prepared 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 08/05/22 13:09 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 08/05/22 13:09 Tetrachloroethene 1.0 U 0.44 ug/L 1.0 08/05/22 13:09 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 08/05/22 13:09 Trichloroethene 1.0 U 1.0 0.44 ug/L 08/05/22 13:09

1.0 U

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137		08/05/22 13:09	1
4-Bromofluorobenzene (Surr)	88		56 - 136		08/05/22 13:09	1
Toluene-d8 (Surr)	96		78 - 122		08/05/22 13:09	1
Dibromofluoromethane (Surr)	100		73 - 120		08/05/22 13:09	1

1.0

0.45 ug/L

Lab Sample ID: LCS 240-537713/4 **Matrix: Water** Analysis Batch: 537713

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene		28.4		ug/L		113	63 - 134	
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	77 - 123	
Tetrachloroethene	25.0	27.3		ug/L		109	76 - 123	
trans-1,2-Dichloroethene	25.0	25.9		ug/L		104	75 - 124	
Trichloroethene	25.0	25.0		ug/L		100	70 - 122	
Vinyl chloride	12.5	9.78		ug/L		78	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	96		56 - 136
Toluene-d8 (Surr)	99		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

98

Lab Sample ID: 240-170891-A-2 MS **Matrix: Water** Analysis Batch: 537713

Toluene-d8 (Surr)

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	25.0	17.3		ug/L		69	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	18.0		ug/L		72	66 - 128
Tetrachloroethene	1.0	U F1	25.0	12.8	F1	ug/L		51	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	16.9		ug/L		68	56 - 136
Trichloroethene	1.0	U F1	25.0	14.4	F1	ug/L		57	61 - 124
Vinyl chloride	1.0	U	12.5	12.1		ug/L		97	43 - 157
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	94		62 - 137						
4-Bromofluorobenzene (Surr)	98		56 - 136						

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

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

10

Dil Fac

1

1

1

1

1

1

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78 - 122

QC Sample Results

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

Lab Sample ID: 240-170891-A-2 MS **Client Sample ID: Matrix Spike** Matrix: Water Prep Type: Total/NA Analysis Batch: 537713 MS MS %Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 100 73 - 120 **Client Sample ID: Matrix Spike Duplicate** Lab Sample ID: 240-170891-C-2 MSD Matrix: Water Prep Type: Total/NA Analysis Batch: 537713 Sample Sample Spike MSD MSD %Rec RPD **Result Qualifier** Added Limits RPD Limit Analyte **Result Qualifier** Unit D %Rec 1.0 U 1,1-Dichloroethene 25.0 19.0 ug/L 76 56 - 135 10 26 cis-1,2-Dichloroethene 1.0 U 25.0 18 5 ug/L 74 66 - 128 3 14 Tetrachloroethene 1.0 UF1 25.0 14.8 F1 ug/L 59 62 - 131 15 20 trans-1.2-Dichloroethene 1.0 U 25.0 71 15 17.9 ug/L 56 - 136 6 Trichloroethene 1.0 UF1 25.0 15.5 ug/L 62 61 - 124 7 15 Vinyl chloride 1.0 U 12.5 15.5 ug/L 124 43 - 157 24 24 MSD MSD %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 94 62 - 137 4-Bromofluorobenzene (Surr) 102 56 - 136 Toluene-d8 (Surr) 99 78 - 122 Dibromofluoromethane (Surr) 99 73 - 120 Method: 8260D SIM - Volatile Organic Compounds (GC/MS) Lab Sample ID: MB 240-537705/4 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA Analysis Batch: 537705 MB MB Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 08/05/22 11:41 1 MB MB Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 82 66 - 120 08/05/22 11:41 Lab Sample ID: LCS 240-537705/3 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 537705 Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 1,4-Dioxane 10.0 10.3 ug/L 103 80 - 122 LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 80 **Client Sample ID: Matrix Spike** Lab Sample ID: 240-170886-F-2 MS Prep Type: Total/NA Matrix: Water Analysis Batch: 537705 Sample Sample Spike MS MS %Rec **Result Qualifier** Added **Result Qualifier** Limits Analyte Unit D %Rec 1,4-Dioxane 2.0 U 10.0 12.2 ug/L 122 51 - 153

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

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	80		66 - 120									
- Lab Sample ID: 240-17088	B6-F-2 MSD					Client	Samn	le ID: N	latrix Spil	ke Dun	licate	2
Matrix: Water						Choine	oump		Prep Ty			
Analysis Batch: 537705	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	10.6		ug/L		106	51 - 153	14	16	
	MSD	MSD										i.
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	83		66 - 120									-

QC Association Summary

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

GC/MS VOA

Analysis Batch: 537705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-170887-2	MW-173S_080122	Total/NA	Water	8260D SIM	
VB 240-537705/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-537705/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-170886-F-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-170886-F-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-170887-1	TRIP BLANK_28	Total/NA	Water	8260D	
240-170887-2	MW-173S_080122	Total/NA	Water	8260D	
MB 240-537713/7	Method Blank	Total/NA	Water	8260D	
LCS 240-537713/4	Lab Control Sample	Total/NA	Water	8260D	
240-170891-A-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-170891-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Job ID: 240-170887-1

Matrix: Water

Lab Sample ID: 240-170887-1

Client Sample ID: TRIP BLANK_28 Date Collected: 08/01/22 00:00 Date Received: 08/03/22 09:45

Date Receive	a: 08/03/22 0	9:45						
	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	537713	08/05/22 14:24	SAM	EETNC CAI
Client Sam	ple ID: MW	-173S_08012	2				Lab Sa	ample ID: 240-170887-2
Date Collecte	d: 08/01/22 1	4:00						Matrix: Water
Date Receive	d: 08/03/22 0	9:45						
_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab

Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	537713	08/05/22 16:29	SAM	EETNC CAI
Total/NA	Analysis	8260D SIM		1	537705	08/05/22 21:51	SAM	EETNC CAI

Laboratory References:

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

12 13

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

Laboratory: Eurofins Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date	
California	State	2927	02-27-23	
Connecticut	State	PH-0590	12-31-23	
Florida	NELAP	E87225	06-30-23	
Georgia	State	4062	02-27-23	
Illinois	NELAP	200004	07-31-23	
owa	State	421	06-01-23	
Kentucky (UST)	State	112225	02-27-23	
Kentucky (WW)	State	KY98016	12-31-22	
Minnesota	NELAP	039-999-348	12-31-22	
Minnesota (Petrofund)	State	3506	08-01-23	
New Jersey	NELAP	OH001	06-30-23	
New York	NELAP	10975	04-01-23	
Ohio	State	8303	02-23-23	
Ohio VAP	State	CL0024	02-27-23	
Oregon	NELAP	4062	02-27-23	
Pennsylvania	NELAP	68-00340	08-31-23	
Texas	NELAP	T104704517-22-17	08-31-22	
Virginia	NELAP	11570	09-14-22	
Washington	State	C971	01-12-23	
West Virginia DEP	State	210	12-31-22	

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Tetephone: 134-041.271 M Tetephone: 134-041.233 Tetephone: 134-041.233 Tetephone: 134-041.233 Ratik Kriedfireri Hinkay gircediceon Addyta Turnenda Tas Addyta Turne	me: Arcadis 50 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey		TestAmerica Laboratories, Inc. COC No:
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Mothod of Shipment Contract. Mothod of Shipment Contract. Mothod of Shipment Contract. Shipment Contract. Shipment Contract. I is in a state of the sta	ne: Ford LTP Off-Site	1~1	TAT if different from below 3 works 40.4	Walk-in client
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Sample Date Sample Date Sample Date Sample Date Sample Date Sample Date NIC X X Sample Date Mark X X Y Sample Date Mark K K Y Sample Date Mark K K Y Sample Date Mark K K K Sam	642.402.04		85600 E 8560 5560D D D D S S S S S S S S S S S S S S S S	Job/SDG No:
8/122 — 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Sample Identification	Matrix Adveous Adveous Solid Solid	Vinyl Chloride HCI HCI HCI HCI HCI HCI HCI HCI	Sample Specific Notes / Special Instructions:
Scientific Line Line Line Line Line Line 240-170887 Chain of Custory 240-170887 Chain of Custory 240-170887 Chain of Custory Mile Mile 240-170887 Chain of Custory 240-170887 Chain of Custory Mile Mile Mile 240-170887 Chain of Custory 240-170887 Chain of Custory Mile Mile Mile 240-170887 Chain of Custory 240-170887 Chain of Custory Mile Mile Mile 240-170887 Chain of Custory 240-170887 Chain of Custory Mile Mile Mile 240-170887 Chain of Custory 240-170887 Chain of Custory Mile Mile Mile 240-170887 Chain of Custory 240-170887 Chain of Custory Mile Mile Mile 240-170887 Chain of Custory 240-170887 Chain of Custory Mile Mile Mile 240-170887 Chain of Custory 240-170887 Chain of Custory Mile Mile Mile 240-170887 Chain of Custory 240-170887 Chain of Custory Mile Mile Mile 240-170887 Chain of Custory 240-170887 Chain of Custory Mile Mile Mile 240-170887 Chain of Custory 240-170887 Chain of Custory Mile Mile Mile 240-170887 Chain of Custory 240-170887 Chain of	BLANK_28	1	C X X X X X	1 Trip Blank
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Skin Irritant Poison B Unknown Sample Bisposal (A fee may be assessed if samples are retained longer than 1 month) Show Pist Bark Park Company. Company. Company. Company. Company. Each A such second by A contract and the Company. Compa		240-170887 Chain of Custody		
Company: Lost Barch gard company: Company HECHALL Barchine: 1540 Received by Cardin Company HECHINE Date Time: Date Time: Company: Company: Date Time: 1540 Received by Level Company: Ford Company: Early Date The Company: Company: Company: Date Time:		Poison B	Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo Return to Client > Disposal By Lah	h) Ionths
Sam Subolic Company. Sam Subolic Company. Hart In Company. Law Time: 1540 Received by ALG Cold Stack Solution: Hart In Company. Law The Company. Date The Billine: 1540 Billine: 1540 Company. Date The Company. Date	fructions/OC Requirements & Comments: ddfrees: I results through Cadena at jtomana@cadenac teporting requested.	Xa		
Lei the Company Date Type 2 20 Reprind in Laboratory by: Company Bright Bright	Sam	TS Date	Received by Company Received by del and Company.	Date Time: OBT 01/17. Date Time: (2) 9.
	Lev th	Date Time	Repeived in Laboratory by: Company:	Darganes Darganes

8/9/2022

	17088	37
Eurofins - Canton Sample Receipt Form/Narrative Login #	12081	
Eurofins - Canton Sample Receipt Form/Narrative Login # Barberton Facility	1-10-00	
lient ACCadif Site Name	Cooler unt	backed by:
ooler Received on $8/3/22$ Opened on $8/3/22$	alal	las
	ther	
Receipt After-hours: Drop-off Date/Time Storage Location		
urofins Cooler # Foam Box Client Cooler Box Other		
Packing material used: Bubble Wrap Foam (lastic Bag) None Other COOLANT: Wet Ice Blue Ice Dry Ice Water None		
Cooler temperature upon receipt See Multiple Cooler F		
IR GUN# IR-13 (CF +0.7 °C) Observed Cooler Temp. °C Corrected Cooler IR GUN #IR-15 (CF 0.0 °C) Observed Cooler Temp. <u>24</u> °C Corrected Cooler		°C C
. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	No	Tests that are not
-Were the seals on the outside of the cooler(s) signed & dated?		checked for pH by
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Ye		Receiving:
	No NA	
Shippers' packing slip attached to the cooler(s)?		VOAs Oil and Grease
Did custody papers accompany the sample(s)?		TOC
Were the custody papers relinquished & signed in the appropriate place?	No	
Was/were the person(s) who collected the samples clearly identified on the COC?	s No	
Did all bottles arrive in good condition (Unbroken)? Could all bottle labels (ID/Date/Time) be reconciled with the COC?	s No	8.3.22
. Could all bottle labels (ID/Date/Time) be reconciled with the COC? 432^{V}	s No	
For each sample, does the COC specify preservatives (YN), # of containers (YE), and g	ample type of g	rab/comp YUV?
0. Were correct bottle(s) used for the test(s) indicated?	No No	
1. Sufficient quantity received to perform indicated analyses?	No	
2. Are these work share samples and all listed on the COC? Ye	s NO	
If yes, Questions 13-17 have been checked at the originating laboratory.	0	
3. Were all preserved sample(s) at the correct pH upon receipt? Ye	s No NA pl	H Strip Lot# HC286797
13. Were all preserved sample(s) at the correct pH upon receipt? Ye 14. Were VOAs on the COC? Ye	No	
15. Were air bubbles >6 mm in any VOA vials? 🛑 🖕 Larger than this. Ye	s NA	-
6. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 8 04 20 6	No	
	s AB	
Contacted PM Date by via Verbal	•	er
Concerning		
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page	Samples pro	cessed by:
	· •	
	<u>, , , , , , , , , , , , , , , , , , , </u>	
19. SAMPLE CONDITION		
Sample(s) were received after the recommended hole	ding time had en	pired.
Sample(s) were received after the recommended nor	d in a broken co	ontainer.
Sample(s) were received with bubble >6 mm		
20. SAMPLE PRESERVATION		
a.		the laboration
Sample(s) were fill Time preserved: Preservative(s) added/Lot number(s):	arther preserved	in the laboratory.
I une preserved: Preservative(s) added/Lot number(s):		
VOA Sample Preservation - Date/Time VOAs Frozen:		

4

DATA VERIFICATION REPORT



August 10, 2022

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631 Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater Project number: 30080642.402.04 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Barberton Laboratory submittal: 170887-1 Sample date: 2022-08-01 Report received by CADENA: 2022-08-09 Initial Data Verification completed by CADENA: 2022-08-10 Number of Samples:2 Sample Matrices: Water and trip blank Test Categories: GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

MS/MSD recovery outliers or sample duplicate RPD outliers were not determined using a client sample from this submittal for the test and QC batch noted so qualification was not required based on these sample-specific QC outliers: GCMS VOC QC batch 537713.

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
ЛН	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than $5x$ (or $10x$ for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than $10x$ the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Barberton Laboratory Submittal: 170887-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLANK_28 2401708871 8/1/2022 Report Valid				MW-173S_080122 2401708872 8/1/2022			
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-826</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	
<u>OSW-826</u>	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

DATA REVIEW

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-170887-1 CADENA Verification Report: 2022-08-10

Analyses Performed By: TestAmerica North Canton, Ohio

Report # 46612R Review Level: Tier III Project: 30146655.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-170887-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

			Sample Collection			Ana	lysis
	Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM
	TRIP BLANK_28	240-170887-1	Water	08/01/22		Х	
-	MW-173S_080122	240-170887-2	Water	08/01/22		Х	Х

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance ptable	Not
	No	Yes	No	Yes	Required
1. Sample receipt condition		Х		Х	
2. Requested analyses and sample results		Х		Х	
3. 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	
9. Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
11. Narrative summary of Quality Assurance or sample problems provided		х		х	
12. Data Package Completeness and Compliance		Х		Х	

DATA REVIEW

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCI

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.

DATA REVIEW

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 REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		X	
Tier III Validation					
System performance and column resolution		Х		X	
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	X				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		Х		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:

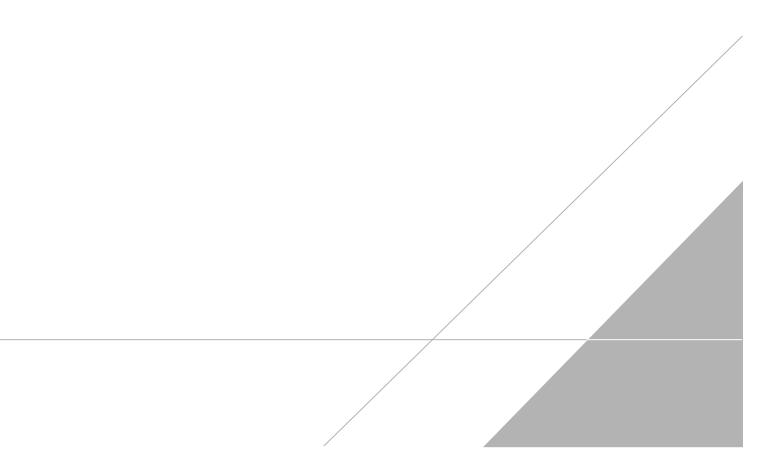
Cunulilud

DATE: September 12, 2022

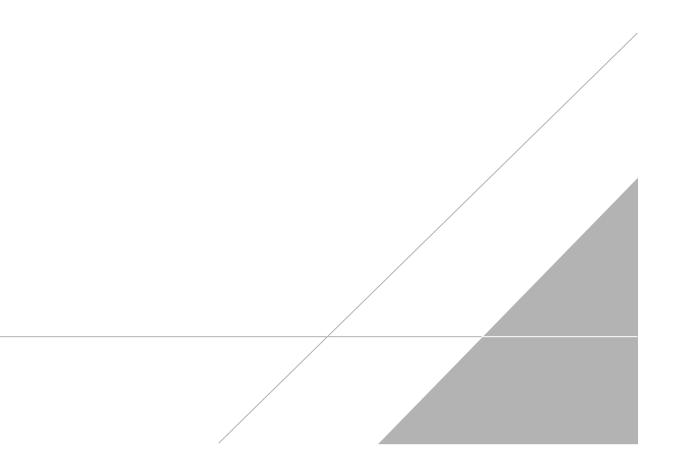
PEER REVIEW: Andrew Korycinski

DATE: September 13, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



MICHIGAN
190

Chain of Custody Record



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

Client Contact	Regulat	tory program		_ D	W		PDES		⊢ R	CRA	r	Othe	r									
Company Name: Arcadis	Client Project Manager: Kris Hinskey			Site Contact: Christina Weaver Lab Contact: Mike DelMonico Telephone: 248-994-2329 Telephone: 330-966-9783							-	Lab Contact: Mike DelMonico						 TestAmerica Laboratories, Inc COC No:				
Address: 28550 Cabot Drive, Suite 500	Telephone: 269-832-7478												 0.00	_								
City/State/Zip: Novi, MI, 48377														lelep	hone:	3.50-9					1 of 1	COCs
Phone: 248-994-2240	Email: Kristof	fer.Hinskey@a	rcadis.c	com		A	nalysis	Turns	around	Time	-						A	nalys	es		For lab use only	
	Sampler Name	: 0	C	1 .		TAT	f different														Walk-in client	
Project Name: Ford LTP Off-Site		Sam	h	Kari	0	10	day		3 week 2 week												Lab sampling	
Project Number: 30080642.402.04	Method of Ship	ment/Carrier:			1	1			1 week 2 days		î	ę			0				M		the sumpting	
PO # 30080642.402.04	Shipping/Track	ting No:							I day		12	C / Grab=G		8260D	8260D			8260D	8260D SIM		Job/SDG No:	
	+			Matri	x	-	Containe	rs & P	reserv	atives	Sample (Y / N)	C10	8260D	826	CE			de 8	826			
									Т	1		osite=	E 82	DCE	1,2-0	2600	260D	Chloride (xane			_
Sample Identification	Sample Date	Sample Time	Air	Aqueous Sediment	Selid Other:	H2SOM	HC1 HC1	NaOH	ZaAc NaOH	Other:	Filtered	Composite	1,1-DCE	cis-1,2-DCE	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl C	1,4-Dioxane			pecific Notes / nstructions:
TRIP BLANK_ 28	8/1/22	-		1			1				N	G	X	X	X	X	х	X			1 Trip Bla	ank
TRIP BLANK_ 28 MW- 1733-080122	Kolin	1400		6			6				N	6	X	X	X	x	X	×	×		3 VOAs for 3 VOAs for	r 8260D r 8260D SIM
U 20 20 20 20 20 20 20 20 20 20 20 20 20																						
ກ ວ ມ					_	+			_		+	$\left \right $			_							_
	240-17088	7 Chain of C	Custod			-				-												
			1.1	11	T	L E																
Possible Hazard Identification					_	Sai				e may be				es are	retain	ned lor	iger t	han 1	month)			
Non-Hazard Flammable Skin Irrita Special Instructions/QC Requirements & Comments: Sample Address: Submit all results through Cadena at itomana@cadenacc	Ω	01	Unkno	1			Retu	m to (Client	2	Dispo	sal By	Lab	ļ	A	rchive	For F	-	Mont	hs	 	
Level IV Reporting requested. Relinquished by:	10		1		· · · · ·			10				_									 	
Sam Sutalia	Company:	J's	10		(11.	154	a	Rece	wed by	r.d.	ic.	6	1	5	Per l	602	Comp		NA	is	Date/Time:	17 ISUN
Relinquished by	Computy:	HOIS		$\frac{9}{2}$	2/	94-			ived by	Jer	2	He	ne	2	<u> </u>	7		oany:	EE	lot	Data Time: 22	1948
Relinquished by Jei Hal	Company:	4	D	BZ	122	951	6	Rege	ived in	Labora	atory b	y:	in	1		~	Com	21	-+		Date/Time: 8/12/12	2945

0 2008. TestAmenos Laboratories, Inc. Al rights reserved 2018/America & Design ¹⁶ are trademarks of TestAmenica Laboratories, Inc. 2022

Client Sample ID: TRIP BLANK_28 Date Collected: 08/01/22 00:00

Date Received: 08/03/22 09:45

Toluene-d8 (Surr)

Trichloroethene

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Vinyl chloride

Surrogate

Dibromofluoromethane (Surr)

Method: 8260D - Volatile O	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/05/22 14:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/05/22 14:24	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/05/22 14:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/05/22 14:24	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/05/22 14:24	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/05/22 14:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137			-		08/05/22 14:24	1
4-Bromofluorobenzene (Surr)	85		56 - 136					08/05/22 14:24	1

78 - 122

73 - 120

Client Sample ID: MW-173S_080122 Date Collected: 08/01/22 14:00 Date Received: 08/03/22 09:45

98

100

1.0 U

1.0 U

%Recovery Qualifier

99

88

99

101

Method: 8260D SIM - Volati	le Organic Co	mpounds ((GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/05/22 21:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		66 - 120					08/05/22 21:51	1
	rganic Compo	unds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/05/22 16:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/05/22 16:29	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/05/22 16:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/05/22 16:29	1

1.0

1.0

Limits

62 - 137

56 - 136

78 - 122

73 - 120

0.44 ug/L

0.45 ug/L

Job ID: 240-170887-1

Lab Sample ID: 240-170887-1 Matrix: Water

Lab Sample ID: 240-170887-2

08/05/22 14:24

08/05/22 14:24

08/05/22 16:29

08/05/22 16:29

Analyzed

08/05/22 16:29

08/05/22 16:29

08/05/22 16:29

08/05/22 16:29

Prepared

Matrix: Water

1

1

1

1

1

1

1

1

Dil Fac