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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: 240-166715-1

Client Project/Site: Ford LTP - Off Site

For:

..... Links

Review your project results through

EOL

Have a Question?

www.eurofinsus.com/Env

Visit us at:

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

Attn: Kristoffer Hinskey

Mole Del your

signature.

Authorized for release by: 5/27/2022 11:09:42 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

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

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Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

3

Qualifiers

MQL NC

ND NEG

POS

PQL

QC

RL

RER

RPD

TEF

TEQ

TNTC

PRES

Quaimers	
GC/MS VOA Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number

Job ID: 240-166715-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-166715-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 5/17/2022 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6° C and 2.1° 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.

Job ID: 240-166715-1

Method Summary

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

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-166715-1	TRIP BLANK_113	Water	05/13/22 00:00	05/17/22 09:30
240-166715-2	MW-151S_051322	Water	05/13/22 11:50	05/17/22 09:30

Detection Summary

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

Client Sample ID: TRIP BLANK_113

No Detections.

Client Sample ID: MW-151S_051322

No Detections.

Lab Sample ID: 240-166715-1

Lab Sample ID: 240-166715-2

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK_113 Date Collected: 05/13/22 00:00 Date Received: 05/17/22 09:30

Lab Sample ID: 240-166715-1

Matrix: Water

5 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/24/22 19:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/24/22 19:50	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/24/22 19:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/24/22 19:50	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/24/22 19:50	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/24/22 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137					05/24/22 19:50	1
4-Bromofluorobenzene (Surr)	89		56 - 136					05/24/22 19:50	1
Toluene-d8 (Surr)	97		78 - 122					05/24/22 19:50	1
Dibromofluoromethane (Surr)	103		73 - 120					05/24/22 19:50	1

Client Sample ID: MW-151S_051322 Date Collected: 05/13/22 11:50 Date Received: 05/17/22 09:30

Lab Sample	ID: 2

240-166715-2 Matrix: Water

Job ID: 240-166715-1

Analyte	Result	Qualifier	RL	MDL	. Unit	D	Prepared	Analyzed	Dil Fac
I,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/21/22 05:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		66 - 120			-		05/21/22 05:06	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			05/24/22 21:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	6 ug/L			05/24/22 21:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/24/22 21:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/24/22 21:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/24/22 21:55	1
Vinyl chloride	1.0	U	1.0	0.45	i ug/L			05/24/22 21:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137			-		05/24/22 21:55	1
4-Bromofluorobenzene (Surr)	86		56 - 136					05/24/22 21:55	1
Toluene-d8 (Surr)	95		78 - 122					05/24/22 21:55	1
Dibromofluoromethane (Surr)	100		73 - 120					05/24/22 21:55	1

Surrogate Summary

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

			Pe	ercent Surro	ogate Recovery	<pre>/ (Acceptance Limits)</pre>
		DCA	BFB	TOL	DBFM	
_ab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-166662-F-4 MS	Matrix Spike	96	97	99	103	
240-166662-I-4 MSD	Matrix Spike Duplicate	96	101	99	106	
240-166715-1	TRIP BLANK_113	100	89	97	103	
240-166715-2	MW-151S_051322	97	86	95	100	
_CS 240-527705/4	Lab Control Sample	94	99	98	102	
MB 240-527705/6	Method Blank	98	88	95	100	
Surrogate Legend						
DCA = 1,2-Dichloroeth	nane-d4 (Surr)					
BFB = 4-Bromofluorob	enzene (Surr)					
TOL = Toluene-d8 (Su	rr)					
DBFM = Dibromofluor	omethane (Surr)					
ethod: 8260D S	IM - Volatile Organic	Compoun	ds (GC/	MS)		
atrix: Water		•	``	,		Prep Type: Total/N
			Pé	ercent Surr	ogate Recovery	(Acceptance Limits)
		DCA			Sale Recovery	

		DCA		
Lab Sample ID	Client Sample ID	(66-120)		
240-166715-2	MW-151S_051322	85	 	 _
240-166860-C-2 MS	Matrix Spike	85		
240-166860-C-2 MSD	Matrix Spike Duplicate	83		
LCS 240-527374/3	Lab Control Sample	85		
MB 240-527374/4	Method Blank	83		
Surrogato Logond				

Surrogate Legend DCA = 1,2-Dichloroethane-d4 (Surr) Prep Type: Total/NA

5 6

9

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

Lab Sample ID: MB 240-527705/6

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

Matrix: Water Analysis Batch: 527705

-	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/24/22 13:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/24/22 13:33	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/24/22 13:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/24/22 13:33	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/24/22 13:33	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/24/22 13:33	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137		05/24/22 13:33	1
4-Bromofluorobenzene (Surr)	88		56 - 136		05/24/22 13:33	1
Toluene-d8 (Surr)	95		78 - 122		05/24/22 13:33	1
Dibromofluoromethane (Surr)	100		73 - 120		05/24/22 13:33	1

Lab Sample ID: LCS 240-527705/4 Matrix: Water Analysis Batch: 527705

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	26.2		ug/L		105	63 - 134	
cis-1,2-Dichloroethene	25.0	26.3		ug/L		105	77 - 123	
Tetrachloroethene	25.0	25.7		ug/L		103	76 - 123	
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	75 - 124	
Trichloroethene	25.0	26.0		ug/L		104	70 - 122	
Vinyl chloride	12.5	10.9		ug/L		87	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

Lab Sample ID: 240-166662-F-4 MS **Matrix: Water** Analysis Batch: 527705

4-Bromofluorobenzene (Surr)

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	29.1		ug/L		117	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	25.8		ug/L		103	66 - 128
Tetrachloroethene	1.0	U	25.0	25.5		ug/L		102	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	26.9		ug/L		108	56 - 136
Trichloroethene	1.0	U	25.0	25.0		ug/L		100	61 - 124
Vinyl chloride	0.84	J	25.0	20.8		ug/L		80	43 - 157
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	96		62 - 137						

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

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

5 10

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56 - 136

78 - 122

97

99

QC Sample Results

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

Lab Sample ID: 240-166662-F-4 MS **Client Sample ID: Matrix Spike** Matrix: Water Prep Type: Total/NA Analysis Batch: 527705 MS MS %Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 103 73 - 120 **Client Sample ID: Matrix Spike Duplicate** Lab Sample ID: 240-166662-I-4 MSD Matrix: Water Prep Type: Total/NA Analysis Batch: 527705 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 28.0 ug/L 112 56 - 135 4 26 cis-1,2-Dichloroethene 1.0 U 25.0 25.7 ug/L 103 66 - 128 0 14 Tetrachloroethene 1.0 U 25.0 25.9 ug/L 103 62 - 131 20 1 trans-1.2-Dichloroethene 1.0 U 25.0 26.4 106 15 ug/L 56 - 136 2 Trichloroethene 1.0 U 25.0 25.0 ug/L 100 61 - 124 0 15 Vinyl chloride 0.84 J 25.0 23.2 ug/L 90 43 - 157 11 24 MSD MSD %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 96 62 - 137 4-Bromofluorobenzene (Surr) 101 56 - 136 Toluene-d8 (Surr) 99 78 - 122 Dibromofluoromethane (Surr) 106 73 - 120 Method: 8260D SIM - Volatile Organic Compounds (GC/MS) Lab Sample ID: MB 240-527374/4 **Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA** Analysis Batch: 527374 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 05/20/22 19:13 MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 83 66 - 120 05/20/22 19:13 1 Lab Sample ID: LCS 240-527374/3 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 527374 Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 1,4-Dioxane 10.0 11.6 ug/L 116 80 - 122 LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 85 66 - 120 **Client Sample ID: Matrix Spike** Lab Sample ID: 240-166860-C-2 MS Prep Type: Total/NA Matrix: Water Analysis Batch: 527374 Sample Sample Spike MS MS %Rec **Result Qualifier** Added **Result Qualifier** Limits Analyte Unit D %Rec 1,4-Dioxane 10.0 5.7 15.9 ug/L 102 51 - 153

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

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	85		66 - 120									
- Lab Sample ID: 240-1668	60-C-2 MSD					Client	Samp	le ID: N	latrix Spi	ke Dup	licate	-
Matrix: Water							p		Prep Ty			
Analysis Batch: 527374										·		
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
1,4-Dioxane	5.7		10.0	15.7		ug/L		100	51 - 153	1	16	
	MSD	MSD										
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: 527374

Lab Sample ID 240-166715-2	Client Sample ID MW-151S_051322	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-527374/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-527374/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-166860-C-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-166860-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-166715-1	TRIP BLANK_113	Total/NA	Water	8260D	
240-166715-2	MW-151S_051322	Total/NA	Water	8260D	
MB 240-527705/6	Method Blank	Total/NA	Water	8260D	
LCS 240-527705/4	Lab Control Sample	Total/NA	Water	8260D	
240-166662-F-4 MS	Matrix Spike	Total/NA	Water	8260D	
240-166662-I-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Matrix: Water

Lab Sample ID: 240-166715-1

Client Sample ID: TRIP BLANK_113 Date Collected: 05/13/22 00:00 Date Received: 05/17/22 09:30

Date Receive	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	•	Analyst	Lab
Total/NA	Analysis	8260D		1	527705	05/24/22 19:50	SAM	TAL CAN
Client Sam	ple ID: MW	-151S_051322	1				Lab Sa	mple ID: 240-166715-2
Date Collecte	d: 05/13/22 1	1:50						Matrix: Water
Date Receive	d: 05/17/22 0	9:30						
_								

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	527705	05/24/22 21:55	SAM	TAL CAN
Total/NA	Analysis	8260D SIM		1	527374	05/21/22 05:06	CS	TAL CAN

Laboratory References:

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

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

Laboratory: Eurofins Canton

	y this laboratory are listed. Not all ac	ccreditations/certifications are applicable to	o this report.	
Authority	Program	Identification Number	Expiration Date	
California	State	2927	02-27-23	
Connecticut	State	PH-0590	12-31-23	
Florida	NELAP	E87225	06-30-22	
Georgia	State	4062	02-23-22 *	
Illinois	NELAP	200004	07-31-22	
lowa	State	421	06-01-23	
Kentucky (UST)	State	112225	02-27-23	
Kentucky (WW)	State	KY98016	12-31-22	
Minnesota	NELAP	039-999-348	12-31-22	
Minnesota (Petrofund)	State	3506	08-01-23	
New Jersey	NELAP	OH001	06-30-22	
New York	NELAP	10975	04-01-23	
Ohio	State	8303	02-23-23	
Ohio VAP	State	CL0024	05-24-22	
Oregon	NELAP	4062	05-24-22	
Pennsylvania	NELAP	68-00340	08-31-22	
Texas	NELAP	T104704517-22-16	08-31-22	
Virginia	NELAP	11570	09-14-22	
Washington	State	C971	01-12-23	
West Virginia DEP	State	210	12-31-22	

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

MICHIGAN 190 Client Contact	Chair TestAmerica Laboratory location: Brighton 10448 Citati Regulatory program: DW	Chain of Custody Record 10448 Citation Drive. Suite 200 / Brighton. MI 48116 / 810-229-2763 DW NPDES RCRA Other	9-2763	
Company Name: Arcadis	-			TestAmerica Lahoratorios Inc
Address: 28560 Cabot Drive. Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
Turitseed/Tim Novi M1 4837	Telephone: 269-832-7478	Telephone: 248-994-2329	Telephone: 330-966-9783	
	Email: Kristoffer.Hinskey@arcadis.com	Analysis Lurnaround Time	Analyses	1 of 1 COCs For lab use only
Phone: 248-994-2240 Project Name: Ford LTP Off-Site Project Number: 30080642.402.04	Sampler Name: Sampler Name: Method of ShipmenUCarrier:			Walk-in client Lab sampling
P() # 30080642.402.04	Shipping/Tracking No:	ole (Y / N Crab≕	€ 8560D DE 8560C 8560D	Job/SDG No:
Sample Identification	Sample Date Sample Time Aducous	1/1-DCE 856 Containers & Filtered Sam NaoH H2OH H2OH H2OH H2OH H2OH	cis-1,2-DCE Trans-1,2-DCE PCE 8260D Vinyl Chlorid Vinyl Chlorid 1,4-Dioxane	Sample Specific Notes / Special Instructions:
TRIP BLANK_ 13	X - 77/2 VSO	NGX		1 Trip Blank
MW-1515 051322	5/13/20 1150 X	N C X	XXXXXX	3 VOAs for 8260D 3 VOAs for 8260D SIM
			240-166715 Chain of Custody	
Possible Ilazard Identification Non-Hazard Skin		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	uples are retained longer than 1 month)	
ions/OC Requirements & Comments iss: $\sum_{i=1}^{1} \mathcal{O} \mathcal{O} = \sum_{i=1}^{1} \mathcal{O} = \sum_{i=1}^{1} \mathcal{O} = \sum_{i=1}^{1} \mathcal{O} = \sum_{i=1}^{1} \mathcal{O} = \mathbb{O}$		📕 Return to Client 💌 Disposal By La	b Archive For Months	
Reinguished by: Barrow Bur Cura Reinguished by: Reinguished by:	Company: Com	15.35 Received by COLOL (JUDAC) 1200 Received by COLOL (JUDAC) 1200 Received in Laboratory by:	DNGOR Company: Company: EFT Company: LETAC	Date/Time: 5/13/22/63/ 5/16/72 1200 Date/Time: Date/Time:
1990, Testhewest Libratories, Inc. All 1995, reserved 1996, Testhewest Libratories, Inc. All 1995, reserved resources à Dway 1º ao testreest, d'feblement Libratores. Inc.				

5/27/2022

		-161215
Curofins TestAmerica Canton Sample Receipt Form/Narrative Canton Facility	Login # :	146115
	Cooler u	npacked by:
	75	We
edEx: 1 st Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier	Other	
Receipt After-hours: Drop-off Date/Time Storage Location	Outer	
estAmerica Cooler # TA Foam Box Client Cooler Box Other		
Packing material used: Bubble Wrap Foam Plastic Bag None Other		
COOLANT: Wet Ice) Blue Ice Dry Ice Water None		
. Cooler temperature upon receipt See Multiple Cooler For	m	
IR GUN# IR-13 (CF 0.0 °C) Observed Cooler Temp. C Corrected Cooler Temp.	emp	°C
IR GUN #IR-15 (CF -0.7°C) Observed Cooler Temp°C Corrected Cooler T		_•C
. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity CG (Sea		Tests that are not
-Were the seals on the outside of the cooler(s) signed & dated?	No NA	checked for pH by
	6	Receiving:
) No NA) No	VOAs
	No	Oil and Grease
Were the custody papers relinquished & signed in the appropriate place?		TOC
	No	A camerical management and the first to be
	No	
. Could all bottle labels (ID/Date/Time) be reconciled with the COC? (Yes	No	
. For each sample, does the COC specify preservatives (Y)N), # of containers (Y)N), and sa	mple type of	grab/comp(YN)?
0. Were correct bottle(s) used for the test(s) indicated?	No	
	No	
	No	
If yes, Questions 13-17 have been checked at the originating laboratory.		11 Carlo 1 anti 11/ 16784
	No (NA)	H Strip Lot# HC15784
	(NG) NA	
6. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 01042016 (es	No	
7. Was a LL Hg or Me Hg trip blank present?Yes		
Contacted PM Date by via Verbal V	oice Mail Otl	ner
Concerning		
8. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page	Samples pro	cessed by:
CAMPLE CONDITION		mired
	an time had a	A A CAR WHILE
ample(s) were received after the recommended holdin		
ample(s) were received after the recommended holdin ample(s) were received	in a broken co	ontainer.
ample(s)	in a broken co	ontainer.
were received with bubble >6 mm in 0. SAMPLE PRESERVATION	in a broken co diameter. (N	ontainer. otify PM)
sample(s)	in a broken co diameter. (N	ontainer. otify PM)
sample(s)	in a broken co diameter. (N	ontainer. otify PM)

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Login #: 166715

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Cooler Description	IR Gun #	n Sample Receipt Mu Observed	Corrected	Coolant
(Circle)	(Circle)	Temp °C	Temp °C	(Circle)
TA Client Box Other	IR-13 IR-15	2.1	2.1	Wet Ice Blue Ice Dry Ic
TÀ Client Box Other	(R-13) IR-15	0.6	0.6	Wet Ice Blue Ice Dry ice Water None
TA Client Box Other	IR-13 IR-15	¥		Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ico Water None
TA Client Box Other	IR-13 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet ice Blue ice Dry ic Water None
TA Client Box Other	IR-13 IR-15		<u>i anno i statungo</u>	Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
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TA Client Box Other	IR-13 IR-15		an <u>an anna an an</u>	Wet Ice Sive Ice Dry Ic Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ici Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ic Water None
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TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ici Water None
TA Client Box Other	IR-13 IR-15		an a	Wet Ice Blue Ice Dry ka Water None
TA Client Box Other	IR-13 IR-15	an a		Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15		•	Wet Ice Blue Ice Dry Ico Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15	<u></u>		Wet Ice Blue Ice Dry Ico Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ico Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ico Water None
TA Client Box Other	IR-13 IR-15		negana a sa <u>manang</u> a ang kanang sa sa	Wet Ice Blue Ice Dry Ico Water None
TA Client Box Other	IR-13 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-13 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-13 IR-15		<u> </u>	Wet Ice Blue Ice Dry Ico Water None
TA Client Box Other	IR-13 IR-15	- , Mariyan , Alaina - Anaganaya,	enalis i internetta anna anna anna anna	Wet Ice Blue Ice Dry Ico Water None
TA Client Box Other	IR-13 IR-15		an in the second second	Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15		and the second	Wet Ice Sive Ice Dry Ice Water None
TA Client Box Other	IR-13 IR-15		<u> </u>	Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-13 IR-15	a an		Wet Ice Blue Ice Dry Ice Water None
			See Ter	mperature Excursion Form

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

DATA VERIFICATION REPORT



May 29, 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: 166715-1 Sample date: 2022-05-13 Report received by CADENA: 2022-05-27 Initial Data Verification completed by CADENA: 2022-05-29 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 <u>http://clms.cadenaco.com/index.cfm</u>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Barberton Laboratory Submittal: 166715-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401667 5/13/20	7151	1		MW-151 2401667 5/13/20	_ 7152	22	
			_	Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-8260</u>	<u>DC</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-8260</u>	<u>DDSIM</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 # 240-166715-1 CADENA Verification Report: 2022-05-29

Analyses Performed By: TestAmerica North Canton, Ohio

Report # 45764R Review Level: Tier III Project: 30080642.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-166715-1 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:

O served a UD	L-L D	N - Anton	Sample Collection	Descet Occursio	Ana	lysis
Sample ID	Lab ID	Matrix	Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_113	240-166715-1	Water	05/13/2022		Х	
MW-151S_051322	240-166715-2	Water	05/13/2022		Х	Х

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	

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 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 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable, and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits.

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM		orted		rmance eptable	Not Required	
	No	Yes	No	Yes	Required	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)					
Tier II Validation						
Holding times/Preservation		Х		Х		
Tier III Validation					1	
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

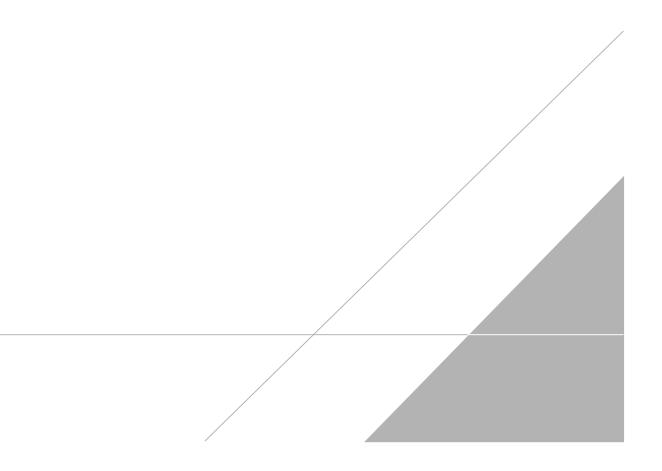
VALIDATION PERFORMED BY:	Hareesha Naik
SIGNATURE:	Hahil
DATE:	June 09, 2022

PEER REVIEW: Andrew Korycinski

DATE: June 12, 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

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

Client Contact	estAmerica Labora	ory program:		E D			NP			R			Ot	-	-2763	_	_	-	_	_	-			THE	LEADER IN E	NVIRONM	ENTAL T	STAR
Company Name: Arcadis	Client Project	Manager: Kris H	linekov												4										estAmeric	a Labor	atorie	, Inc
Address: 28550 Cabot Drive, Suite 500											Mike DelMonico COC No:																	
City/State/Zip: Novi, MI, 48377	l'elephone: 269													F	1 of	1	COCs											
Phone: 248-994-2240	Email: Kristof	fer.Hinskey@ar	cadis.co	nı			Ana	lysis 1	urnar	ound	Time	_	Γ		_	_	-	A	nalys	ses		-		F	or lab use o			
Project Name: Ford LTP Off-Site	Sampler Name	cl				TA	AT if di	fferent fr	om belo															V	Valk-in clier	1t		
	Dam	Jukaric					10 da	ay	- 2	weeks weeks									1					L	ab sampling	g		
Project Number: 30080642.402.04	Method of Ship	ment/Carrier:	1							week days		Î	U-			8												
P() # 30080642.402.04	Shipping/Track	ing No:							1			Sample (Y / N)	=C / Grab=G		260D	826			8260	260D				J	ob/SDG No	:		
				Matri	ĸ		Cor	ntainer	s & Pre	eserva	tives	ampl		3260	E 8	-DCE	0	0	oride	ne 82				1				
Sample Identification	Sample Date	Sample Time	Air Aqueous	Sediment	Other:	H2SO4	HN03	HCI	NaOH ZaAci	Vapres (Others	Filtered S	Composite:	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM						e Specifi ial Instru		/
0 TRIP BLANK_ 13	05/13/22		X		-	T		Ī		4 -		N	G	T _v	1	X	X	X	X		+			+	1 Trip	Blank		_
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Possible Hazard Identification						+-	Samo	le Disi	nosal (Afac	e may l		cred i			a moto	in di		1									
Non-Hazard Flammable Skin Irr Special Instructions/QC Requirements & Comments: Some Additional Additacional Additional Additacio	ritant 🦳 Poiso	n B	Unknow	n			Г	Return	n to Cl	ient		Dispu	osal E	ly Lab	pies at		Archiv				Months	;						
Sample Address: Jacob Brew Submit all results through Cadena et itomalia@cadena Level IV Reporting requested.	co.com. Cadena	E203631																										
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14

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

Not Calculated

Negative / Absent

Positive / Present

Presumptive

Quality Control

3

Qualifiers

MQL NC

ND NEG

POS

PQL

QC

RL

RER

RPD

TEF

TEQ

TNTC

PRES

Quaimers	
GC/MS VOA Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number

Client Sample ID: TRIP BLANK_113 Date Collected: 05/13/22 00:00 Date Received: 05/17/22 09:30

Lab Sample ID: 240-166715-1

Matrix: Water

5 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/24/22 19:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/24/22 19:50	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/24/22 19:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/24/22 19:50	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/24/22 19:50	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/24/22 19:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137					05/24/22 19:50	1
4-Bromofluorobenzene (Surr)	89		56 - 136					05/24/22 19:50	1
Toluene-d8 (Surr)	97		78 - 122					05/24/22 19:50	1
Dibromofluoromethane (Surr)	103		73 - 120					05/24/22 19:50	1

Client Sample ID: MW-151S_051322 Date Collected: 05/13/22 11:50 Date Received: 05/17/22 09:30

Lab Sample	ID: 2

240-166715-2 Matrix: Water

Job ID: 240-166715-1

Analyte	Result	Qualifier	RL	MDL	. Unit	D	Prepared	Analyzed	Dil Fac
I,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/21/22 05:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		66 - 120			-		05/21/22 05:06	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			05/24/22 21:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	6 ug/L			05/24/22 21:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/24/22 21:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/24/22 21:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/24/22 21:55	1
Vinyl chloride	1.0	U	1.0	0.45	i ug/L			05/24/22 21:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137			-		05/24/22 21:55	1
4-Bromofluorobenzene (Surr)	86		56 - 136					05/24/22 21:55	1
Toluene-d8 (Surr)	95		78 - 122					05/24/22 21:55	1
Dibromofluoromethane (Surr)	100		73 - 120					05/24/22 21:55	1