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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: 240-166777-1

Client Project/Site: Ford LTP - Off Site

For:

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

Attn: Kristoffer Hinskey

The

Authorized for release by: 5/31/2022 4:12:19 PM Nicole Kalis, Project Manager I (330)497-9396 Nicole.Kalis@et.eurofinsus.com

Designee for

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Ask— The Expert 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

Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	_ 4
U	Indicates the analyte was analyzed for but not detected.	
Glossary		5
Abbreviation	These commonly used abbreviations may or may not be present in this report.	6
¤	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	0
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	9
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)	
TUTO		

TNTC Too Numerous To Count

Job ID: 240-166777-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-166777-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 5/18/2022 8:00 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 0.1° C and 0.2° C.

GC/MS VOA

Method 8260D: An MS/MSD was prepared in 240-527909 however due to an auto-sampler error it was able to be analyzed within the tune time. The effected samples are TRIP BLANK_157 (240-166777-1), MW-223S_051622 (240-166777-2) and MW-215S_051622 (240-166777-3).

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

VOA Prep

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

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

Eurofins Canton

Sample Summary

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-166777-1	TRIP BLANK_157	Water	05/16/22 00:00	05/18/22 08:00
240-166777-2	MW-223S_051622	Water	05/16/22 10:25	05/18/22 08:00
240-166777-3	MW-215S_051622	Water	05/16/22 11:35	05/18/22 08:00

	Detection Summary	1
Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site	Job ID: 240-166777-1	2
Client Sample ID: TRIP BLANK_157	Lab Sample ID: 240-166777-1	
No Detections.		
Client Sample ID: MW-223S_051622	Lab Sample ID: 240-166777-2	4
No Detections.		5
Client Sample ID: MW-215S_051622	Lab Sample ID: 240-166777-3	
No Detections.		7
		8
		9
		13

Client Sample ID: TRIP BLANK_157 Date Collected: 05/16/22 00:00 Date Received: 05/18/22 08:00

Lab Sample ID: 240-166777-1

Matrix: Water

5

8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/25/22 14:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/22 14:02	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 14:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/22 14:02	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 14:02	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/22 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			-		05/25/22 14:02	1
4-Bromofluorobenzene (Surr)	86		56 - 136					05/25/22 14:02	1
Toluene-d8 (Surr)	98		78 - 122					05/25/22 14:02	1
Dibromofluoromethane (Surr)	107		73 - 120					05/25/22 14:02	1

Client Sample ID: MW-223S_051622 Date Collected: 05/16/22 10:25 Date Received: 05/18/22 08:00

Lab Sample ID: 240-166777-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/24/22 01:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		66 - 120			-	· ·	05/24/22 01:56	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			05/25/22 17:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/22 17:23	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 17:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/22 17:23	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 17:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/22 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			-		05/25/22 17:23	1
4-Bromofluorobenzene (Surr)	83		56 <u>-</u> 136					05/25/22 17:23	1
Toluene-d8 (Surr)	97		78 - 122					05/25/22 17:23	1
Dibromofluoromethane (Surr)	105		73 - 120					05/25/22 17:23	1

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Dibromofluoromethane (Surr)

Client Sample ID: MW-215S_051622 Date Collected: 05/16/22 11:35 Date Received: 05/18/22 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/24/22 02:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		66 - 120			-		05/24/22 02:20	1
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			05/25/22 17:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/22 17:48	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 17:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/22 17:48	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 17:48	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/22 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137			-		05/25/22 17:48	1
4-Bromofluorobenzene (Surr)	85		56 - 136					05/25/22 17:48	1
Toluene-d8 (Surr)	98		78 - 122					05/25/22 17:48	1

73 - 120

104

5/31/2022

Job ID: 240-166777-1

Lab Sample ID: 240-166777-3 Matrix: Water

05/25/22 17:48

Surrogate Summary

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

			Pé	ercent Surr	ogate Recovery (Ac	ceptance Limits)
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-166777-1	TRIP BLANK_157	105	86	98	107	
240-166777-2	MW-223S_051622	102	83	97	105	
240-166777-3	MW-215S_051622	103	85	98	104	
LCS 240-527909/4	Lab Control Sample	98	99	99	107	
MB 240-527909/6	Method Blank	101	87	98	103	
Surrogate Legend						
DCA = 1,2-Dichloroe	thane-d4 (Surr)					
BFB = 4-Bromofluoro	bbenzene (Surr)					
TOL = Toluene-d8 (S	surr)					
DBFM = Dibromofluc	promethane (Surr)					
Inthady 9260D	SIM Valatila Organia	Compour		MC)		
	SIM - Volatile Organic	Compound	us (GC/	113)		
latrix: Water						Prep Type: Total/N/

			Percent Surrogate Recovery (Acceptance Limits)	
		DCA		
Lab Sample ID	Client Sample ID	(66-120)		
240-166740-B-2 MS	Matrix Spike	83		
240-166740-B-2 MSD	Matrix Spike Duplicate	81		
240-166777-2	MW-223S_051622	83		
240-166777-3	MW-215S_051622	84		
LCS 240-527590/3	Lab Control Sample	82		
MB 240-527590/4	Method Blank	82		
Surrogate Legend				

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

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5 6 9

Job ID: 240-166777-1

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

Lab Sample ID: MB 240-527909/6 Matrix: Water

Analysis Batch: 527909

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/25/22 12:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/22 12:47	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 12:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/22 12:47	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 12:47	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/22 12:47	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		05/25/22 12:47	1
4-Bromofluorobenzene (Surr)	87		56 - 136		05/25/22 12:47	1
Toluene-d8 (Surr)	98		78 - 122		05/25/22 12:47	1
Dibromofluoromethane (Surr)	103		73 - 120		05/25/22 12:47	1

Lab Sample ID: LCS 240-527909/4 Matrix: Water Analysis Batch: 527909

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene		25.5		ug/L		102	63 - 134	
cis-1,2-Dichloroethene	25.0	27.2		ug/L		109	77 - 123	
Tetrachloroethene	25.0	26.2		ug/L		105	76 - 123	
trans-1,2-Dichloroethene	25.0	28.1		ug/L		113	75 - 124	
Trichloroethene	25.0	26.4		ug/L		106	70 - 122	
Vinyl chloride	12.5	11.1		ug/L		89	60 - 144	
L	.CS LCS							

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	99		78 - 122
Dibromofluoromethane (Surr)	107		73 - 120

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

Lab Sample ID: MB 240-527590/4 Matrix: Water Analysis Batch: 527590							Client Sam	ple ID: Method Prep Type: To	
	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			05/23/22 20:08	1
	МВ	MB							
Surrogate %	Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		66 - 120					05/23/22 20:08	1

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

Job ID: 240-166777-1

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

Lab Sample ID: LCS 240-	-527590/3					Clie	nt Sar	nple ID	: Lab Cor		
Matrix: Water									Prep Ty	pe: lot	ai/NA
Analysis Batch: 527590			Spike	1.09	LCS				%Rec		
Analyta			Added	-	Qualifier	Unit	_	%Rec	Limits		
Analyte					Quaimer		D		80 - 122		
1,4-Dioxane			10.0	11.6		ug/L		116	80 - 122		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	82		66 - 120								
Lab Sample ID: 240-1667	40-B-2 MS						CI	ient Sa	mple ID: I	Matrix 3	Spike
Matrix: Water									Prep Ty		
Analysis Batch: 527590											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	2.0	U	10.0	11.3		ug/L		113	51 - 153		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	83		66 - 120								
Lab Sample ID: 240-1667	40-B-2 MSD					Client	Samp	le ID: N	latrix Spil	ke Dup	licate
Matrix: Water									Prep Ty	pe: Tot	al/NA
Analysis Batch: 527590										·	
-	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	11.2		ug/L		112	51 - 153	1	16
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)			66 - 120								

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GC/MS VOA

Analysis Batch: 527590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-166777-2	MW-223S_051622	Total/NA	Water	8260D SIM	
240-166777-3	MW-215S_051622	Total/NA	Water	8260D SIM	
MB 240-527590/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-527590/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-166740-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-166740-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 527909

Lab Sample ID 240-166777-1	Client Sample ID TRIP BLANK_157	Prep Type Total/NA	Water	Method 8260D	Prep Batch
240-166777-2	MW-223S_051622	Total/NA	Water	8260D	
240-166777-3	MW-215S_051622	Total/NA	Water	8260D	
MB 240-527909/6	Method Blank	Total/NA	Water	8260D	
LCS 240-527909/4	Lab Control Sample	Total/NA	Water	8260D	

Job ID: 240-166777-1

Client Sam Date Collecte Date Receive	d: 05/16/22 0						Lab Sa	imple ID:	240-166777-1 Matrix: Water
_	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260D		1	527909	05/25/22 14:02	SAM	TAL CAN	
Client Sam	ple ID: MW	-223S_051622					Lab Sa	mple ID:	240-166777-2
Date Collecte Date Receive									Matrix: Wate
_	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260D		1	527909	05/25/22 17:23	SAM	TAL CAN	
Total/NA	Analysis	8260D SIM		1	527590	05/24/22 01:56	CS	TAL CAN	
Client Sam Date Collecte Date Receive	d: 05/16/22 1						Lab Sa	mple ID:	240-166777-3 Matrix: Wate
-	Batch	Batch		Dilution	Batch	Prepared			
	Baton					-			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	

1

527590 05/24/22 02:20 CS

TAL CAN

Laboratory References:

Analysis

Total/NA

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

8260D SIM

Eurofins Canton

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

Laboratory: Eurofins Canton

accreditations/certifications held b	canton by 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	ī
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	1
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	02-27-23	
Oregon	NELAP	4062	02-27-23	
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.

Company Name: Arradic							THE PERSON PERSONNAL PERSONNAL PROPERTY OF A
Company Name: Arcadic	Regulatory program:	DW	NPDES RCRA	tA Other			
	Client Project Manager: Kris Hinskey	Hinskey	Site Contact: Christina Weaver	aver	Lab Contact: Mike DelMonico	elMonico	TestAmerica Laboratories, inc. ICOC No:
Address: 28550 Cabot Drive, Suite 500	Telephone: 269-832-7478		Telephone: 248-994-2329		Telenhane: 330-966-9783	1783	
City/State/Zip: Novi, MI, 48377							1 of 1 COCh
Phone: 248-994-2240	Email: Kristoffer.Hinskey@arcadis.com	rcadis.com	Analysis Turnaround Time			Analyses	For lab use only
Project Name: Ford LTP Off-Site	Sampler Name:		cut from b				Walk-in client
Project Number: 30080642.402.04	Method of Shipment/Carrier:		10 day 2 weeks 1 week		a		Lab sampling
PO # 30080642.402.04	Shipping/Tracking No:		2 days	Crab.			Job/SDG No:
		Matrix	Containers & Preservati)=9		əpire	
Sample Identification	Sample Date Sample Time	Alt Sediment Sediment Other:	Andres Zuve/ NªOH HCI HCI HSO3 HSO3	Piliered S Composite Filiered S	Cis-1,2-DC Trans-1,2- PCE 8260 PCE 8260	old) lyniv Isxoi(]-þ.f	Sample Specific Notes / Special Instructions:
TRIP BLANK_ 157				×+ -	X X X X	×	1 Trip Blank
mw-2235-09622	6/16/20 1025	6	6	NG Y	× × × ×	***	3 VOAs for 8260D 3 VOAs for 8260D SIM
MW-2155_051622	5/16/22 1135	9	7	NGX	XXXX	XX	
ge 17							
of 19							
			240-1	240-166777 Chain of Custody	ustody		
Possible Hazard Identification V Non-Hazard Flammable Sk	Skin Irritant Poison B	Unknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 Disposal (A fee may be assessed if samples are retained longer than 1 Discoved By Jak	may be assessed if samp	es are retained longer Archive For	r than 1 month)	-
ions/OC Requirements & comments ss: 35000 PUV ifs through Cadona at jtomatia@ ting requested.	しいたい しいてナー denaco.com. Cadena #E203631		Keurit IO Calent	 Disposal By Lao 	ACRIVE FOR	-	
Relinquished by The The The	Company: Arradis	Date Time: 5/16/02/1	1500 Reverved by:	(014 9	Stolage Co	Company: Arradis	BateTime: 5/16/22/1500
Meinquissed by Att Hard	PRCH OLS		/ 1100 MULTIN	6	N COL	Company	Date Time: 5/17/22 /10/
Keinquished by:	Company:	Date/Time: SID/23	1130 Received in L	Received in Laboratory by:	Ç	Сотралу:	Date/Time:

5/31/2022

MICHIGAN

	1117.1.1
Eurofins TestAmerica Canton Sample Receipt Form/Narrative Canton Facility	Login # :_ 106777
Client Arcudis Site Name Ford LTP	Cooler unpacked by:
Cooler Received on 5-18-22 Opened on 5-18-22	() de la como
FedEx: 1 [#] Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier	Other
Receipt After-hours: Drop-off Date/Time Storage Location	Culei
TestAmerica 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	
1. Cooler temperature upon receipt See Multiple Cooler For	
IR GUN# IR-13 (CF 0.0 °C) Observed Cooler Temp °C Corrected Cooler Te	
IR GUN #IR-15 (CF -0.7°C) Observed Cooler Temp°C Corrected Cooler T	No
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity (Yes -Were the seals on the outside of the cooler(s) signed & dated?	No. NA Tests that are not
	checked for pri by
-Were tamper/custody seals intact and uncompromised?	No NA Receiving:
	No VOAs
	No Oil and Grease
	No
	No
	2No
 Could all bottle labels (ID/Date/Time) be reconciled with the COC? For each sample, does the COC specify preservatives (YN), # of containers (YN), and sample, does the COC specify preservatives (YN), # of containers (YN), and sample, does the COC specify preservatives (YN), # of containers (YN), and sample, does the COC specify preservatives (YN), # of containers (YN), and sample, does the COC specify preservatives (YN), # of containers (YN), and sample, does the COC specify preservatives (YN), # of containers (YN), and sample, does the COC specify preservatives (YN), # of containers (YN), and sample, does the COC specify preservatives (YN), # of containers (YN), and sample, does the COC specify preservatives (YN), # of containers (YN), and sample, does the COC specify preservatives (YN), # of containers (YN), and sample, does the COC specify preservatives (YN), # of containers (YN), and sample, does the COC specify preservatives (YN), # of containers (YN), # of containers (YN), and sample, does the COC specify preservatives (YN), # of containers (YN), and sample, does the COC specify preservatives (YN), # of containers (YN), and sample, does the COC specify preservatives (YN), # of containers (YN), and sample, does the COC specify preservatives (YN), # of containers (YN),	X
10. Were correct bottle(s) used for the test(s) indicated?	· · · · · · · · · · · · · · · · · · ·
11. Sufficient quantity received to perform indicated analyses? Yes	
12. Are these work share samples and all listed on the COC? Yes	
If yes, Questions 13-17 have been checked at the originating laboratory.	
	No NA pH Strip Lot# HC157842
14. Were VOAs on the COC?	
 15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #01042016 Yes 	NoNA
17. Was a LL Hg or Me Hg trip blank present?Yes	
	-
Contacted PM Date by via Verbal Vo	bice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page	0 1
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page	Samples processed by:
19. SAMPLE CONDITION	
Sample(s) were received after the recommended holdin	n a broken container.
Sample(s) were received in the second seco	
	diamieter. (Notity 1147)
20. SAMPLE PRESERVATION	
Sample(s) were furth Time preserved: Preservative(s) added/Lot number(s):	her preserved in the laboratory.
Time preserved:Preservative(s) added/Lot number(s):	
VOA Sample Preservation - Date/Time VOAs Frozen:	

Login #: 166777

	5
	8
	9
	3
1	4

Cooler Descript		ton Sample Receipt I Observed	Corrected	Coolant
(Circle)	(Circle)	Temp °C		(Circle)
	Other (IR-13) IR-15	0.2	0.2+0.2	Wet ice Blue ice Dry k
	(19,13) 19,15	and the second s	Siller U.d	Water None Wet Ice) Blue Ice Dry Is
	Other IR-13 IR-15	0.1	0.1	Water None Wet Ice Blue Ice Dry k
TA Client Box	Other			Water None
TA Client Box	Other IR-13 IR-15			Wet ice Blue ice Dry k Water None
TA Client Box	Other IR-13 IR-15			Wet ice Blue ice Dry k Water None
TA Client Box	Other IR-13 IR-15			Wet Ice Blue Ice Dry is Water None
TA Client Box	Other IR-13 IR-15			Wet Ice Blue Ice Dry k Water None
TA Client Box	Other IR-13 IR-15			Wet ice Blue ice Dry k
TA Client Box	Other IR-13 IR-15			Water None Wet Ice Blue Ice Dry k
·····	Other IR-13 IR-15			Water None Wet Ice Blue Ice Dry k
	10-13 10-15			Water None Wet Ice Blue Ice Dry k
	Other IR-13 IR-15			Water None Wet ice Blue ice Dry k
TA Client Box	Other IR-13 IR-15			Water None Wet ice Blue ice Dry k
TA Client Box	Other			Water None
TA Client Box	Other IR-13 IR-15			Wet Ice Blue Ice Dry Is Water None
TA Client Box	Other IR-13 IR-15			Wet Ice Blue Ice Dry k Water None
TA Client Box	Diher IR-13 IR-15			Wet Ice Blue Ice Dry k 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			Wet ice Blue ice Dry k Water None
TA Client Box	Other IR-13 IR-15			Wet Ice Blue Ice Dry k
TA Client Box	Other IR-13 IR-15	1	•	Water None Wetice Blue Ice Dry Ic
	Other IR-13 IR-15			Water None Wet Ice Blue Ice Dry Ic
	IR.13 IR.15			Water None Wet Ice Blue Ice Dry Ic
	Other IR-13 IR-15			Water None Wetice Blue ice Dry k
1A Client Box (Other IR-13 IR-15			Water None Wetice Blueice Dry k
TA Client Box	Jiner			Water None
TA Cilent Box	Other IR-13 IR-15			Wet ice Blue ice Dry ic Water None
TA Client Box (Wet ice Blue ice Dry ic 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			Wet ice Blue ice Dry ic Water None
TA Client Box	Diher IR-13 IR-15	1		Wet Ice Blue Ice Dry Ic Water None
TA Client Box (Other IR-13 IR-15			Wet Ice Blue Ice Dry Ic
	Other IR-13 IR-15			Water None Wet Ice Blue Ice Dry Ic
	Other IR-13 IR-15			Water None Wet Ice Blue Ice Dry Ic
	10-13 ID-16			Water None Wet Ice Blue Ice Dry Ic
IA Client Box (7iner			Water None Wet Ice Blue Ice Dry Ic
TA Client Box (Other Inter Intera		1	Water None

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

DATA VERIFICATION REPORT



June 01, 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: 166777-1 Sample date: 2022-05-16 Report received by CADENA: 2022-05-31 Initial Data Verification completed by CADENA: 2022-06-01 Number of Samples:3 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.

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.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Barberton Laboratory Submittal: 166777-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401667 5/16/20		MW-223 2401667 5/16/20	772	22							
	Analyta	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
	Analyte	Cas NO.	Result	LIIIIIL	Units	Quaimer	Result	LIIIIIL	Units	Quaimer	Result	LIIIIIL	Units	Quaimer
GC/MS VOC														
<u>OSW-82</u>	<u>60D</u>													
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		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		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		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		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		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		ND	1.0	ug/l	
<u>OSW-82</u>	60DSIM													
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

DATA REVIEW

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-166777-1 CADENA Verification Report: 2022-06-01

Analyses Performed By: TestAmerica North Canton, Ohio

Report # 45800R Review Level: Tier III Project: 30080642.402.01

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-166777-1 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_157	240-166777-1	Water	05/16/22		Х	
MW-223S_051622	240-166777-2	Water	05/16/22		Х	Х
MW-215S_051622	240-166777-3	Water	05/16/22		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.

DATA REVIEW

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 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		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

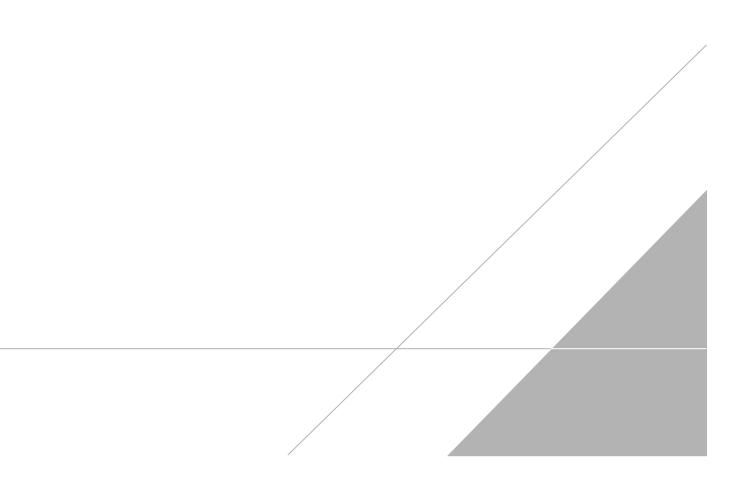
VALIDATION PERFORMED BY:	Vinayak Hegde
SIGNATURE:	V Gresce

DATE: June 13, 2022

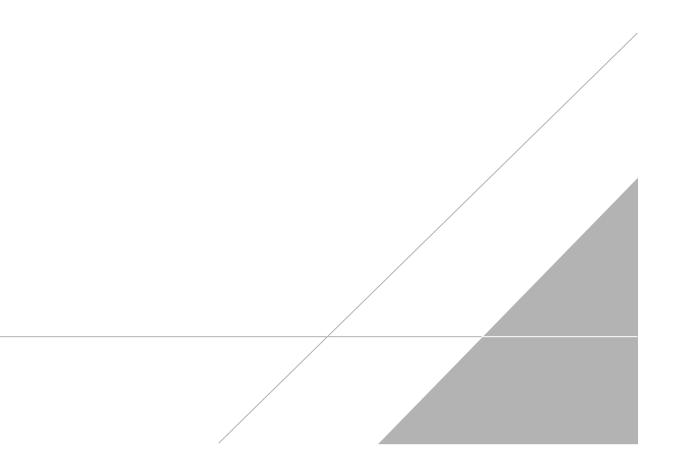
PEER REVIEW: Andrew Korycinski

DATE: June 14, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS





Chain of Custody Record



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

Client Contact Company Name: Arcadis	Kegula	ory program:			DW		NPE	DES		RC	RA		Othe	er										TestAmerica Laboratorie
Address: 28550 Cabot Drive, Suite 500	Client Project I	lanager: Kris l	Hinske	y		Site	e Con	tact: (Christi	na W	eaver	-			Lab C	ontact	t: Mike	Dell	Monico	0				COC No:
	Telephone: 269	-832-7478				Te	lephor	ne: 24	8-994-2	2329					Telep	hone:	330-96	6-97	83					
City/State/Zip: Novi, MI, 48377	Email: Kristof	er Hinckey@a	readie	com		Analysis Turnaround Time									Ai	nalys	96				1 of 1 COCs For lab use only			
hone: 248-994-2240																			1					
roject Name: Ford LTP Off-Site	Sampler Name	:				TA	T if dif	ferent fr		veeks		-												Walk-in client
roject Number: 30080642.402.04	Method of Ship	ment/Carrier:				-	10 da	y	- 2v	veeks veek										Σ				Lab sampling
O # 30080642.402.04	Shipping/Track	ing No:				4			2 0	lays		N/N)=qa		0	260D			8260D	D SI				
	Supping/ Frace	ang 140:						z				ple ()	0/ Gr	8	8260	E 82			e 826	8260				Job/SDG No:
				T	trix	-	Con	tainer	s & Pre	serval	tives	Sam	site=(826	DCE	2-00	60D	600	lorid	ane				
Sample Identification	Sample Date	Sample Time	Air	Aqueous Sediment	Solid Other:	H2SO4	HNO3	HCI	NaOH ZnAc/	Unpres	Other:	Filtered Sample (Y / N)	Composite=C / Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride	1.4-Dioxane 8260D SIM				Sample Specific Notes Special Instructions:
TRIP BLANK_ 57				1		T		1				-	-	X	X	X	X	x	X					1 Trip Blank
MW-2235_08622	5/16/22	1025		6	Π	T		6				N	6	У	X	X	×	X	X	X		1		3 VOAs for 8260D 3 VOAs for 8260D 5
MW-2235_08622 MW-2155_051622	5/16/22	1135	4	6		T		6				N	6	×	X	X	X	X	×	X				
										T														
						T						T												
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						T																		
											-1667				istod		W NNN							
									-	240	-1667		Idin										1	
Possible Hazard Identification Non-Hazard Flammable Skin Ir	ritant Poise	n B	Unkno	own			Samp	le Dis	posal (n to Cli	A fee	may b	e asses Dispo			les are		ned lon		han 1		i) onths		-	
ample Address: 2 2000 D(21 Mar)																							-	
ample Address: 35000 PUMMOL ubmit all results through Cadena at jtomalia@cadena evel IV Reporting requested.	n Tl aco,com. Cadena #	E203631																						
linquished by:	Company: Arca	dis	D	Date Tin 5/1	ne: 6/22/	150	00	ľ	Receive	d by:	1	01	1	6	to	(00	e	Comp	any:	id	IS		_	Date/Time: 5/16/22/150
linquished by	Company:	20 mme	E	Date/Tin	ne: 7/22	1			Receive			-	4	7	10	ing	-	Comp	any	(a	<u> </u>			Date/Time:
elinquished by:	Company	(UNULS		Date/Tim	+12C		10	U I	NH	W	Labora	tom											_	5/17/22 /1C
	Company: EEPA			Date/Tin 5/17/	22	113	P()		RECEIV	cu IN	P#00L8	nory D	y:					Com	oany:					Later I Ime:

5/2003. Test/America Laboratories, Inc. All rights reserved. Institutioners & Delegon th and traditioners, of Test/America Laboratories, Inc. 1/2022

14

Client Sample ID: TRIP BLANK_157 Date Collected: 05/16/22 00:00 Date Received: 05/18/22 08:00

Lab Sample ID: 240-166777-1

Matrix: Water

5

8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/25/22 14:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/22 14:02	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 14:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/22 14:02	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 14:02	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/22 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			-		05/25/22 14:02	1
4-Bromofluorobenzene (Surr)	86		56 - 136					05/25/22 14:02	1
Toluene-d8 (Surr)	98		78 - 122					05/25/22 14:02	1
Dibromofluoromethane (Surr)	107		73 - 120					05/25/22 14:02	1

Client Sample ID: MW-223S_051622 Date Collected: 05/16/22 10:25 Date Received: 05/18/22 08:00

Lab Sample ID: 240-166777-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/24/22 01:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		66 - 120			-	· ·	05/24/22 01:56	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			05/25/22 17:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/22 17:23	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 17:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/22 17:23	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 17:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/22 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			-		05/25/22 17:23	1
4-Bromofluorobenzene (Surr)	83		56 - 136					05/25/22 17:23	1
Toluene-d8 (Surr)	97		78 - 122					05/25/22 17:23	1
Dibromofluoromethane (Surr)	105		73 - 120					05/25/22 17:23	1

Eurofins Canton

Dibromofluoromethane (Surr)

Client Sample ID: MW-215S_051622 Date Collected: 05/16/22 11:35 Date Received: 05/18/22 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/24/22 02:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		66 - 120			-		05/24/22 02:20	1
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			05/25/22 17:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/22 17:48	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 17:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/22 17:48	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 17:48	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/22 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137			-		05/25/22 17:48	1
4-Bromofluorobenzene (Surr)	85		56 - 136					05/25/22 17:48	1
Toluene-d8 (Surr)	98		78 - 122					05/25/22 17:48	1

73 - 120

104

5/31/2022

Job ID: 240-166777-1

Lab Sample ID: 240-166777-3 Matrix: Water

05/25/22 17:48