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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 240-130906-1

Client Project/Site: Ford LTP Off-Site

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The

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

Attn: Kristoffer Hinskey

Mole Del your

Authorized for release by: 6/11/2020 2:26:16 PM

Michael DelMonico, Project Manager I (330)497-9396 michael.delmonico@testamericainc.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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3

Qualifiers

GC/MS VOA	
Qualifier	Qualifier Description
Π	Indicates the analyte was analyzed for but not detected

Indicates the analyte was analyzed for but not detected.	
	- 5
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	- 0
Percent Recovery	
Contains Free Liquid	
Contains No Free Liquid	0
Duplicate Error Ratio (normalized absolute difference)	0
Dilution Factor	
Detection Limit (DoD/DOE)	9
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
Decision Level Concentration (Radiochemistry)	
Estimated Detection Limit (Dioxin)	
Limit of Detection (DoD/DOE)	
Limit of Quantitation (DoD/DOE)	
Minimum Detectable Activity (Radiochemistry)	
Minimum Detectable Concentration (Radiochemistry)	
Method Detection Limit	13
Minimum Level (Dioxin)	
Method Quantitation Limit	
Not Calculated	
Not Detected at the reporting limit (or MDL or EDL if shown)	
Practical Quantitation Limit	
Quality Control	
Relative Error Ratio (Radiochemistry)	
Reporting Limit or Requested Limit (Radiochemistry)	
Relative Percent Difference, a measure of the relative difference between two points	
Toxicity Equivalent Factor (Dioxin)	
Toxicity Equivalent Quotient (Dioxin)	
Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)	
	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 Percent Recovery Contains Free Liquid Contains No Free Liquid Duplicate Error Ratio (normalized absolute difference) Dilution Factor Detection Limit (DoD/DOE) Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample Decision Level Concentration (Radiochemistry) Estimated Detection Limit (DoXin) Limit of Detection (DoD/DOE) Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry) Method Detection Limit Minimum Level (Dioxin) Method Duptication Limit Not Detected at the reporting limit (or MDL or EDL if shown) Practical Quantitation Limit Quality Control Relative Error Ratio (Radiochemistry) Relative For Ratio (Radiochemistry) Relative For Ratio (Radiochemistry) Relative Percent Difference, a measure of the relative difference between two points Toxicity Equivalent Factor (Dioxin)

Job ID: 240-130906-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP Off-Site

Report Number: 240-130906-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Eurofins TestAmerica, Canton attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

RECEIPT

The samples were received on 5/28/2020 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TRIP BLANK (240-130906-1) and MW-111S_052620 (240-130906-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/02/2020.

Method 8260B: The matrix spike/matrix spike duplicate (MS/MSD) for samples TRIP BLANK (240-130906-1) and MW-111S_052620 (240-130906-2) was not reported, because the analyte list for these samples did not match the analyte list for the MS/MSD parent sample.

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

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Sample MW-111S_052620 (240-130906-2) was analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 06/08/2020.

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

Job ID: 240-130906-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

Eurofins TestAmerica, Canton 6/11/2020

Method Summary

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

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

Protocol References:

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

Laboratory References:

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

Eurofins TestAmerica, Canton

Sample Summary

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

Lab Sample ID Client Sample ID	Matrix	Collected	Received	Asset ID
240-130906-1 TRIP BLANK	Water	05/26/20 00:00		
240-130906-2 MW-111S_052620	Water	05/26/20 11:40	05/28/20 09:20	

Eurofins TestAmerica, Canton

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

Client Sample ID: TRIP BLANK

No Detections.

Client Sample ID: MW-111S_052620

No Detections.

Job ID: 240-130906-1

00010.240 100000 1

Lab Sample ID: 240-130906-1

Lab Sample ID: 240-130906-2

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK Date Collected: 05/26/20 00:00 Date Received: 05/28/20 09:20

Lab Sample ID: 240-130906-1

Matrix: Water

5 6

8 9

Method: 8260B - Volatile O	· · ·	•		MDI	1114	-	B	•	B '' F
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/20 22:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/02/20 22:37	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/02/20 22:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/20 22:37	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/02/20 22:37	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/02/20 22:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		75 - 130					06/02/20 22:37	1
4-Bromofluorobenzene (Surr)	102		47 - 134					06/02/20 22:37	1
Toluene-d8 (Surr)	91		69 - 122					06/02/20 22:37	1
Dibromofluoromethane (Surr)	94		78 - 129					06/02/20 22:37	1

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-111S_052620 Date Collected: 05/26/20 11:40 Date Received: 05/28/20 09:20

Method: 8260B SIM - Volatile	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			06/08/20 22:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 133					06/08/20 22:01	1
Method: 8260B - Volatile Org	anic Compo	unds (GC/	MS)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/20 18:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/02/20 18:51	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/02/20 18:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/20 18:51	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/02/20 18:51	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/02/20 18:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 130					06/02/20 18:51	1
4-Bromofluorobenzene (Surr)	103		47 - 134					06/02/20 18:51	1

69 - 122

78 - 129

91

94

Lab Sample ID: 240-130906-2

06/02/20 18:51

06/02/20 18:51

Matrix: Water

5

8

1

1

Surrogate Summary

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

latrix: Water		· · ·				Prep Type: Total/NA
			Pe	ercent Surro	ogate Recovery (Ac	ceptance Limits)
		DCA	BFB	TOL	DBFM	
_ab Sample ID	Client Sample ID	(75-130)	(47-134)	(69-122)	(78-129)	
240-130906-1	TRIP BLANK	94	102	91	94	
240-130906-2	MW-111S_052620	97	103	91	94	
LCS 240-436533/4	Lab Control Sample	100	109	95	96	
MB 240-436533/7	Method Blank	94	104	94	95	
DCA = 1,2-Dichloroet BFB = 4-Bromofluorol TOL = Toluene-d8 (St DBFM = Dibromofluor	penzene (Surr) urr)					
lethod: 8260B S	IM - Volatile Organic	Compour				
		Compoun	as (GC/	WIS)		Prep Type: Total/NA
		Compoun			ogate Recovery (Ac	
		DCA			ogate Recovery (Ac	Prep Type: Total/NA ceptance Limits)
latrix: Water	Client Sample ID	-			ogate Recovery (Ac	
latrix: Water Lab Sample ID		DCA			ogate Recovery (Ac	
Lab Sample ID 240-130905-C-2 MS	Client Sample ID	DCA (70-133)			ogate Recovery (Ac	
Lab Sample ID 240-130905-C-2 MS 240-130905-C-2 MSD 240-130906-2	Client Sample ID Matrix Spike	DCA (70-133) 93			ogate Recovery (Ac	

90

Surrogate Legend

MB 240-437309/5

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

Method Blank

Eurofins TestAmerica, Canton

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

Lab Sample ID: MB 240-436533/7 **Matrix: Water**

Analysis Batch: 436533

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/20 15:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/02/20 15:03	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/02/20 15:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/20 15:03	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/02/20 15:03	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/02/20 15:03	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		75 - 130		06/02/20 15:03	1
4-Bromofluorobenzene (Surr)	104		47 - 134		06/02/20 15:03	1
Toluene-d8 (Surr)	94		69 - 122		06/02/20 15:03	1
Dibromofluoromethane (Surr)	95		78 - 129		06/02/20 15:03	1

Lab Sample ID: LCS 240-436533/4 Matrix: Water Analysis Batch: 436533

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	10.0	10.1		ug/L		101	73 - 129	
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	75 - 124	
Tetrachloroethene	10.0	11.1		ug/L		111	70 - 125	
trans-1,2-Dichloroethene	10.0	9.72		ug/L		97	74 - 130	
Trichloroethene	10.0	9.98		ug/L		100	71 ₋ 121	
Vinyl chloride	10.0	12.8		ug/L		128	61 - 134	
L	CS LCS							

	200	200	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		75 - 130
4-Bromofluorobenzene (Surr)	109		47 - 134
Toluene-d8 (Surr)	95		69 - 122
Dibromofluoromethane (Surr)	96		78 - 129

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

Lab Sample ID: MB 240-437309 Matrix: Water Analysis Batch: 437309							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			06/08/20 13:19	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 133					06/08/20 13:19	1

10

Client Sample ID: Method Blank Prep Type: Total/NA 5

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Eurofins TestAmerica, Canton

QC Sample Results

Job ID: 240-130906-1

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

Lab Sample ID: LCS 240-4	437309/4					Clie	ent Sai	mple ID	: Lab Cor	ntrol Sa	mple
Matrix: Water									Prep Ty		
Analysis Batch: 437309											
-			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane			10.0	9.88		ug/L		99	80 - 135		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	87		70 - 133								
Lab Sample ID: 240-13090	5-C-2 MS						CI	lient Sa	mple ID:	Matrix 9	Snike
Matrix: Water									Prep Ty		
Analysis Batch: 437309											
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	2.0	U	10.0	10.5		ug/L		105	46 - 170		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	93		70 - 133								
Lab Camala ID: 040 4000						Oliont	C		lately Cal		lleste
Lab Sample ID: 240-13090 Matrix: Water	15-C-2 WISD					Client	Samp		latrix Spi		
									Prep Ty	pe. rot	al/INA
Analysis Batch: 437309	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	•	Qualifier	Added	-	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	10.0		ug/L		100	46 - 170	5	26
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	95		70 - 133								

QC Association Summary

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

GC/MS VOA

Analysis Batch: 436533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-130906-1	TRIP BLANK	Total/NA	Water	8260B	
240-130906-2	MW-111S_052620	Total/NA	Water	8260B	
MB 240-436533/7	Method Blank	Total/NA	Water	8260B	
LCS 240-436533/4	Lab Control Sample	Total/NA	Water	8260B	

Lab Sample ID **Client Sample ID** Prep Type Matrix Method Prep Batch 240-130906-2 MW-111S_052620 Total/NA Water 8260B SIM MB 240-437309/5 Method Blank Total/NA Water 8260B SIM LCS 240-437309/4 Lab Control Sample Total/NA Water 8260B SIM 240-130905-C-2 MS Matrix Spike Total/NA 8260B SIM Water 240-130905-C-2 MSD Matrix Spike Duplicate Total/NA Water 8260B SIM

Client Sample ID: TRIP BLANK Date Collected: 05/26/20 00:00 Data Pacaivad: 05/28/20 09:20

Analysis

8260B SIM

Date Received	d: 05/28/20 0	9:20							
	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260B		1	436533	06/02/20 22:37	LRW	TAL CAN	
Client Sam	ple ID: MW	-111S_052620					Lab Sa	mple ID:	240-130906-2
Date Collecte	d: 05/26/20 1	1:40						-	Matrix: Water
Date Received	d: 05/28/20 0	9:20							
_	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260B		1	436533	06/02/20 18:51	LRW	TAL CAN	

1

437309 06/08/20 22:01 TJL2

TAL CAN

Laboratory References:

Total/NA

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

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP Off-Site Job ID: 240-130906-1

Laboratory: Eurofins TestAmerica, Canton

uthority	Program	Identification Number	Expiration Date
alifornia	State	2927	02-23-21
onnecticut	State	PH-0590	12-31-21
orida	NELAP	E87225	06-30-20
eorgia	State	4062	02-23-21
inois	NELAP	004498	07-31-20
owa	State	421	06-01-21
ansas	NELAP	E-10336	04-30-21
entucky (UST)	State	112225	02-23-21
entucky (WW)	State	KY98016	12-31-20
innesota	NELAP	OH00048	12-31-20
nnesota (Petrofund)	State	3506	08-01-21
ew Jersey	NELAP	OH001	06-30-20
ew York	NELAP	10975	03-31-21
nio VAP	State	CL0024	06-05-21
regon	NELAP	4062	02-24-21
ennsylvania	NELAP	68-00340	08-31-20
exas	NELAP	T104704517-18-10	08-31-20
DA	US Federal Programs	P330-18-00281	09-17-21
ginia	NELAP	010101	09-14-20
ashington	State	C971	01-12-21
est Virginia DEP	State	210	12-31-20

		TestAmerica Laboratories, Inc. COC No:		For lab use only	Walk-in client	Lab sampling		Job/SDG No:	Sample Specific Notes / Special Instructions:	1 TRIP BURK	S WAS FOR B2608	Months		CCACLES DaveTime 1540/4545 340 Arculi 5724/72 1644 5724 5-37-20 1445 574 5-38-20 920
3-514-2	Other	Lab Contact: Mike DelMonico	Telephone: 330-497-9396	Analyses			B 08 P=C	e 8560 SE 856 85608 08	Filtered Sam Composite (1,1-DCE 8260B Trans-1,2-DCE PCE 8260B TCE 8260B TCE 8260B TCE 8260B TCE 8260B TCE 8260B	NG X X X X X X X	NGXXXXXX	retained longer (han 1 mo		M. W. Company old Statage Company Ganzel Company
Chain of Custody Record	□ DW □ NPDES □ RCRA	Site Contact: Julia McClafferty	Telephone: 734-644-5131	Analysis Turnaround Time	TAT if different from below	UER 10 day 5			Materix Containers & Preservatives Linpres NaoOH HCC NaoOH HCC NaoOH HCC NaoOH HCC NaoOH HCC Socild Soci		9	240-130906 Chain of Custody		120/13440 Received by 20/15440 Received by N 132 1440 Received in Lab 132 1440 Received in Lab
MICHIGAN 190 TestAmerica Laboratory location: Brighton -	Regulatory program:	Client Project Manager: Kris Hinskey	Telephone: 248-994-2240	Email: kristoffer.hinskey@arcadis.com	Sampler Name:	MEI		Shipping/Tracking No:	Sample Date Sample Time Ar	- 1 1	5/26/20 1140 6	ciri Irriant C Diknown		Company Conditions Date Time Company: Arcadi 5126 Company: Arcadi 5124 Company: Arcadi 5124
MICHIC 190	Client	Company Name: Arcadis	Address: 28550 Cabot Drive, Suite 500	City/State/Zip: Novi, MI, 48377	Phone: 248-994-2240	Project Name: Ford LTP Off-Site	Project Number: 30050315.402.04	PO# 30050315.402.04	Sample Identification	TRIP BLANK	MIN-1115_052620	Possible Hazard Identification Possible Hazard Identification	special instructionin QC inequirements & Comments: Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	Relinquished by: Charles Market Market Relinquished by: Market Market Bringuished by: Market Ma

Eurofins TestAmerica Canton Sample Receipt Form/Narrative Canton Facility	Login # : 30904
Client Arcadis Site Name	Cooler unpacked by:
Cooler Received on 5-28-20 Opened on 5-28-20	Adem Donett
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Couri	
Receipt After-hours: Drop-off Date/Time Storage Location	on
 TestAmerica Cooler # Foam Box Client Cooler Box Other Packing material used: Bubble Wrap Foam Plastic Bag None Other COOLANT: Wet for Blue Ice Dry Ice Water None 1. Cooler temperature upon receipt See Multiple Cooler IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp °C Corrected Cooler IR GUN #IR-11 (CF +0.9 °C) Observed Cooler Temp °C Corrected Cooler Cooler temper/custody seals on the outside of the cooler(s)? If Yes Quantity Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? Shippers' packing slip attached to the cooler(s)? 	er Form oler Temp. 4.2 °C
 12. Were all preserved sample(s) at the correct pH upon receipt? 13. Were VOAs on the COC? 14. Were air bubbles >6 mm in any VOA vials? Larger than this. 15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #	Yes No NA pH Strip Lot# <u>HC902937</u> Yes No Yes No Yes No Yes No Yes No
Concerning	
17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	Samples processed by:
18. SAMPLE CONDITION Sample(s)	
Sample(s) were rec	
Sample(s) were received with bubble >6 : 19. SAMPLE PRESERVATION	mm in diameter. (Notity PM)
Sample(s)	and found have a second on the shake material
Sample(s)we Time preserved:Preservative(s) added/Lot number(s):we	ere further preserved in the laboratory.

DATA VERIFICATION REPORT



June 11, 2020

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

CADENA project ID: E203631 Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater Project number: 30050315.0402.04 off site Event Specific Scope of Work References: Sample COC Laboratory: TestAmerica - North Canton Laboratory submittal: 130906-1 Sample date: 2020-05-26 Report received by CADENA: 2020-06-11 Initial Data Verification completed by CADENA: 2020-06-11 Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch MS/MSD issues as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, MS/MSD Recovery, MS/MSD RPD, 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 Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

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

Analytical Results Summary

Reportable Results Only

CADENA Project ID: E203631

Laboratory: TestAmerica - North Canton Laboratory Submittal: 130906-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401309 5/26/20	9061		MW-111S_052620 2401309062 5/26/2020				
			D It	Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-8260B</u>										
1,1-Dic	nloroethene	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	
Tetrach	loroethene	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	
Trichlor	oethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
Vinyl ch	loride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260BBSim										
1,4-Dio	xane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

DATA REVIEW

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-130906-1 CADENA Verification Report: 2020-06-11

Analyses Performed By: TestAmerica Edison, New Jersey

Report #37279R Review Level: Tier III Project: 30050315.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-130906-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) includes a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

SDG	Sample ID	Lab ID Matrix		Sample Collection Date	Parent Sample	VOC (Full Scan)	Analysis VOC (SIM)	MISC
	TRIP BLANK	240-130906-1	Water	5/26/2020		Х		
240-130906-1	MW-111S_052620	240-130906-2	Water	5/26/2020		Х	Х	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

		Repo	orted		mance ptable	Not
Items	Reviewed	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 receiv	ed date		Х		Х	
8. Sample preservation verif	ication (as applicable)		Х		Х	
9. Sample preparation/extra	ction/analysis dates		Х		Х	
10. Fully executed Chain-of-C	Custody (COC) form		Х		Х	
11. Narrative summary of Qua problems provided	ality Assurance or sample		х		Х	
12. Data Package Completen	ess and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260B and 8260B SIM. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

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

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

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

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

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VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

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

All internal standard responses were within control limits.

DATA REVIEW

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 was not performed on a sample within this SDG.

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260B/8260B-SIM	Re	ported	Perfo Acc	Not	
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMET	RY (GC/I	MS)			
Tier II Validation					
Holding times/Preservation		X		X	
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		Х	
Field Duplicate RPD		X		Х	
Internal standard		X		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		X		х	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Andrew Korycinski

SIGNATURE:

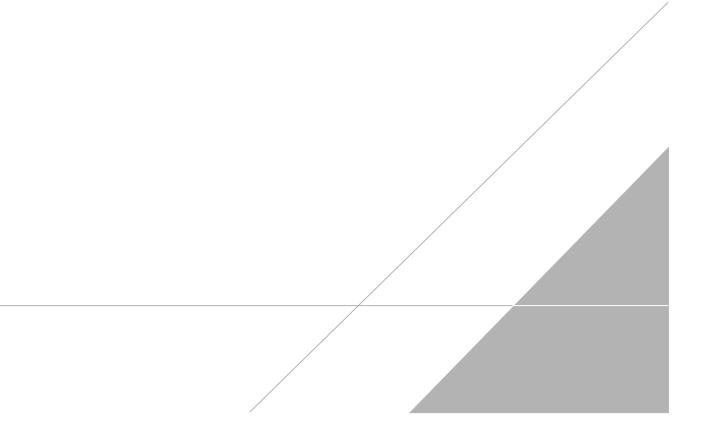
a Kaji

DATE: June 22, 2020

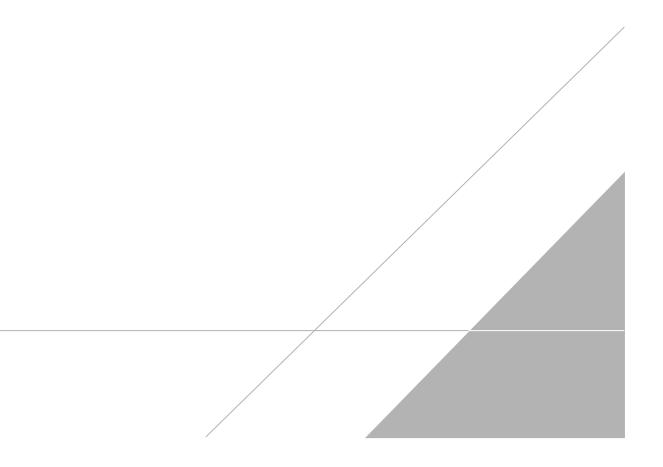
PEER REVIEW: Dennis Capria

DATE: July 2, 2020

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



		TestAmerica Laboratories, Inc. COC No:		For lab use only	Walk-in client	Lab sampling		Job/SDG No:	Sample Specific Notes / Special Instructions:	1 TRIP BUAK	S WAS FOR B2608		ath) Months		CARLES Date Time. Arculi Date Time. STA SUNA 1644 STA STAC 1445 ETA STAC 20 1445 ETA STAC 20 1445
3-514-9- 8116 / 810-229-2763	Other	Lab Contact: Mike DelMonico	Telephone: 330-497-9396	Analyses			B 08 P=C	€ 8560 DE 856 85608 008	Filtered Sam Composite (1,1-DCE 8260B Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE Trans-1,2-DCE	NG X X X X X X X	N C X X X X X X X		retained longer than 1 mo		M. W. King Company. Old Stander Company.
Chain of Custody Record	□ DW □ NPDES □ RCRA	Site Contact: Julia McClafferty	Telephone: 734-644-5131	Analysis Turnaround Time	TAT if different from belave	UER 10 day -			Other: Containers & Preservatives Containers & Preservatives Wacott HKO3 MACI HKO3 HKO3 HKC1 HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers HKO3 Contrainers Contrainers Con	1	9	240-130906 Chain of Custody	Sample Disposal (A fee may be assessed if sumples are		120/1340 Received by: 20 1444 Received by: 130 1440 Received in Lath 130 1440 Received in Lath
MICHIGAN 190 TestAmerica Laboratory location: Brighton -	Regulatory program:	Client Project Manager: Kris Hinskey	Telephone: 248-994-2240	Email: kristoffer.hinskey@arcadis.com	Sampler Name:	ME		Shipping/Tracking No:	Sample Date Sample Time At Aucous	- 1 1	5/26/20 1140 6		cin Irritant 🛛 🖓 Roison B 👘 🗇 Unknown		Company, ACCHOLS Date Time Company: Arcadu 512b Company: Arcadu 57,02U Company: Arcadu 57,02U
MICHIC 190	Client	Company Name: Arcadis	Address: 28550 Cabot Drive, Suite 500	City/State/Zip: Novi, MI, 48377	Phone: 248-994-2240	Project Name: Ford LTP Off-Site	Project Number: 30050315.402.04	PO# 30050315.402.04	Sample Identification	TRIP BLANK	MIN-1115_052620		Possible Hazard Identification	Special Instructions/QC Requirements & Comments: Submit all results through Cadena at Jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	Relinquished by: Under M. M. M. M. M. Relinquished by: U. M. M. M. Congression of the M. M. M. M. Congression of the Market of the M. M. M. M. M. Congression of the Market of the Marke

Client Sample ID: TRIP BLANK Date Collected: 05/26/20 00:00 Date Received: 05/28/20 09:20

Lab Sample ID: 240-130906-1

Matrix: Water

5 6

8 9

Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/20 22:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/02/20 22:37	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/02/20 22:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/20 22:37	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/02/20 22:37	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/02/20 22:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		75 - 130					06/02/20 22:37	1
4-Bromofluorobenzene (Surr)	102		47 - 134					06/02/20 22:37	1
Toluene-d8 (Surr)	91		69 - 122					06/02/20 22:37	1
Dibromofluoromethane (Surr)	94		78 - 129					06/02/20 22:37	1

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-111S_052620 Date Collected: 05/26/20 11:40 Date Received: 05/28/20 09:20

Method: 8260B SIM - Volatile	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			06/08/20 22:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 133					06/08/20 22:01	1
Method: 8260B - Volatile Org	anic Compo	unds (GC/	MS)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/20 18:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/02/20 18:51	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/02/20 18:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/20 18:51	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/02/20 18:51	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/02/20 18:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 130					06/02/20 18:51	1
4-Bromofluorobenzene (Surr)	103		47 - 134					06/02/20 18:51	1

69 - 122

78 - 129

91

94

Matrix: Water

Lab Sample ID: 240-130906-2

06/02/20 18:51

06/02/20 18:51

1

1

5 8

Eurofins TestAmerica, Canton