

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 240-163277-1 Client Project/Site: Ford LTP - Off Site

For:

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

Attn: Kristoffer Hinskey

Mele Del Your

Authorized for release by: 3/18/2022 9:54:19 AM

Michael DelMonico, Project Manager I (330)497-9396

Michael.DelMonico@Eurofinset.com

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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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Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-163277-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-163277-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

*+ LCS and/or LCSD is outside acceptance limits, high biased.

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
MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-163277-1

Project/Site: Ford LTP - Off Site

Job ID: 240-163277-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-163277-1

Comments

No additional comments.

Receipt

The samples were received on 3/4/2022 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 3 coolers at receipt time were 1.6° C, 2.2° C and 2.8° C.

GC/MS VOA

Method 8260B: The continuing calibration verification (CCV) associated with batch 519393 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detect for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TRIP BLANK 114 (240-163277-1) and MW-177S 022822 (240-163277-2).

Method 8260B: The laboratory control sample (LCS) for 519393 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported: TRIP BLANK_114 (240-163277-1), MW-177S 022822 (240-163277-2) and (LCS 240-519393/5).

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

VOA Prep

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

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Method Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-163277-1

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

Sample Summary

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

Job ID: 240-163277-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-163277-1	TRIP BLANK_114	Water	02/28/22 00:00	03/04/22 08:00
240-163277-2	MW-177S 022822	Water	02/28/22 12:20	03/04/22 08:00

Detection Summary

Client: ARCADIS U.S., Inc. Job ID: 240-163277-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_114 Lab Sample ID: 240-163277-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-163277-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_114

Date Collected: 02/28/22 00:00 Date Received: 03/04/22 08:00 Lab Sample ID: 240-163277-1

Matrix: Water

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	0.49	ug/L			03/08/22 15:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/22 15:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/22 15:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/22 15:46	1
Trichloroethene	1.0	U *+	1.0	0.44	ug/L			03/08/22 15:46	1
Vinyl chloride	1.0	U *+	1.0	0.45	ug/L			03/08/22 15:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		62 - 137			•		03/08/22 15:46	1
4-Bromofluorobenzene (Surr)	114		56 ₋ 136					03/08/22 15:46	1
Toluene-d8 (Surr)	82		78 - 122					03/08/22 15:46	1
Dibromofluoromethane (Surr)	97		73 - 120					03/08/22 15:46	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-163277-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-177S_022822

Date Collected: 02/28/22 12:20 Date Received: 03/04/22 08:00

Dibromofluoromethane (Surr)

Lab Sample ID: 240-163277-2

03/08/22 16:10

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			03/08/22 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		66 - 120					03/08/22 23:29	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/I	MS)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/08/22 16:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/22 16:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/22 16:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/22 16:10	1
Trichloroethene	1.0	U *+	1.0	0.44	ug/L			03/08/22 16:10	1
Vinyl chloride	1.0	U *+	1.0	0.45	ug/L			03/08/22 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		62 - 137					03/08/22 16:10	1
4-Bromofluorobenzene (Surr)	107		56 - 136					03/08/22 16:10	1
Toluene-d8 (Surr)	83		78 - 122					03/08/22 16:10	1

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Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-163277-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surre	ogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-163277-1	TRIP BLANK_114	77	114	82	97
240-163277-2	MW-177S_022822	74	107	83	93
240-163304-E-4 MS	Matrix Spike	70	113	79	87
240-163304-K-4 MSD	Matrix Spike Duplicate	78	114	81	91
LCS 240-519393/5	Lab Control Sample	71	117	82	92
MB 240-519393/8	Method Blank	80	110	83	92

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-163277-2	MW-177S_022822	80	
240-163307-G-3 MS	Matrix Spike	82	
240-163307-M-3 MSD	Matrix Spike Duplicate	82	
LCS 240-519472/4	Lab Control Sample	80	
MB 240-519472/5	Method Blank	80	
Surrogate Legend			

Client: ARCADIS U.S., Inc. Job ID: 240-163277-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-519393/8

Matrix: Water

Analysis Batch: 519393

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

MB MB Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac Analyte 0.49 ug/L 1,1-Dichloroethene 1.0 U 1.0 03/08/22 12:57 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 03/08/22 12:57 1.0 U 0.44 ug/L Tetrachloroethene 1.0 03/08/22 12:57 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 03/08/22 12:57 Trichloroethene 1.0 U 1.0 0.44 ug/L 03/08/22 12:57 Vinyl chloride 1.0 U 1.0 0.45 ug/L 03/08/22 12:57

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 62 - 137 1,2-Dichloroethane-d4 (Surr) 80 03/08/22 12:57 4-Bromofluorobenzene (Surr) 110 56 - 136 03/08/22 12:57 83 78 - 122 Toluene-d8 (Surr) 03/08/22 12:57 Dibromofluoromethane (Surr) 92 73 - 120 03/08/22 12:57

Lab Sample ID: LCS 240-519393/5

Matrix: Water

Analysis Batch: 519393

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS LC	CS		%Rec.	
Analyte	Added	Result Q	ualifier Unit	D %Rec	Limits	
1,1-Dichloroethene	20.0	24.3	ug/L	121	63 - 134	
cis-1,2-Dichloroethene	20.0	23.4	ug/L	117	77 - 123	
Tetrachloroethene	20.0	19.2	ug/L	96	76 - 123	
trans-1,2-Dichloroethene	20.0	24.8	ug/L	124	75 - 124	
Trichloroethene	20.0	24.9 *+	· ug/L	125	70 - 122	
Vinyl chloride	20.0	29.2 *+	ug/L	146	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 62 - 137 4-Bromofluorobenzene (Surr) 117 56 - 136 Toluene-d8 (Surr) 82 78 - 122 73 - 120 Dibromofluoromethane (Surr) 92

Lab Sample ID: 240-163304-E-4 MS

Matrix: Water

Analysis Batch: 519393

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

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	20.0	23.3		ug/L		117	56 - 135	
cis-1,2-Dichloroethene	0.65	J	20.0	21.9		ug/L		106	66 - 128	
Tetrachloroethene	1.0	U	20.0	17.3		ug/L		86	62 - 131	
trans-1,2-Dichloroethene	1.0	U	20.0	22.5		ug/L		113	56 - 136	
Trichloroethene	1.0	U *+	20.0	21.8		ug/L		109	61 - 124	
Vinyl chloride	1.0	U *+	20.0	26.8		ug/L		134	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	70		62 - 137
4-Bromofluorobenzene (Surr)	113		56 - 136
Toluene-d8 (Surr)	79		78 - 122

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Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-163277-1

Prep Type: Total/NA

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

Lab Sample ID: 240-163304-E-4 MS **Client Sample ID: Matrix Spike**

Matrix: Water

Analysis Batch: 519393

MS MS

%Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 87 73 - 120

Lab Sample ID: 240-163304-K-4 MSD

Matrix: Water

Analysis Batch: 519393

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Sample Sample Spike MSD MSD %Rec. **RPD** Result Qualifier Added Limits RPD Limit Analyte Result Qualifier Unit %Rec 1.0 U 1,1-Dichloroethene 20.0 24.2 ug/L 121 56 - 135 4 26 cis-1,2-Dichloroethene ug/L 0.65 J 20.0 23.5 114 66 - 128 7 14 Tetrachloroethene 1.0 U 20.0 17.5 ug/L 87 62 - 13120 trans-1.2-Dichloroethene 1.0 U 20.0 24.4 ug/L 122 15 56 - 1368 Trichloroethene 1.0 U*+ 20.0 23.1 ug/L 115 61 - 124 6 15 Vinyl chloride 1.0 U*+ 20.0 26.6 ug/L 133 43 - 157 24

MSD MSD

MB MB

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	78		62 - 137
4-Bromofluorobenzene (Surr)	114		56 - 136
Toluene-d8 (Surr)	81		78 - 122
Dibromofluoromethane (Surr)	91		73 - 120

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

Lab Sample ID: MB 240-519472/5

Matrix: Water

Analysis Batch: 519472

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

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 03/08/22 22:14 1,4-Dioxane 2.0 U 2.0 0.86 ug/L

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 80 66 - 120 03/08/22 22:14

Lab Sample ID: LCS 240-519472/4

Matrix: Water

Analysis Batch: 519472

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

Spike LCS LCS %Rec. Added Result Qualifier Limits Analyte Unit D %Rec 1,4-Dioxane 10.0 9.05 ug/L 90 80 - 122

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 80

Lab Sample ID: 240-163307-G-3 MS

Matrix: Water

Analysis Batch: 519472

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 10.1 ug/L 101 51 - 153

Eurofins Canton

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-163277-1

Project/Site: Ford LTP - Off Site

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	82		66 - 120								
Lab Sample ID: 240-1633 Matrix: Water Analysis Batch: 519472	307-M-3 MSD					Client	Samp	le ID: N	latrix Spil Prep Ty	•	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	10.5		ug/L		105	51 - 153	4	16
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	82		66 - 120								

QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-163277-1

GC/MS VOA

Analysis Batch: 519393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-163277-1	TRIP BLANK_114	Total/NA	Water	8260B	
240-163277-2	MW-177S_022822	Total/NA	Water	8260B	
MB 240-519393/8	Method Blank	Total/NA	Water	8260B	
LCS 240-519393/5	Lab Control Sample	Total/NA	Water	8260B	
240-163304-E-4 MS	Matrix Spike	Total/NA	Water	8260B	
240-163304-K-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 519472

Lab Sample ID 240-163277-2	Client Sample ID MW-177S_022822	Prep Type Total/NA	Matrix Water	Method 8260B SIM	Prep Batch
MB 240-519472/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-519472/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-163307-G-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-163307-M-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-163277-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_114 Lab Sample ID: 240-163277-1

Date Collected: 02/28/22 00:00 **Matrix: Water**

Date Received: 03/04/22 08:00

Batch Batch Dilution Batch Prepared Method **Prep Type Factor** Number or Analyzed Analyst Type Run Lab TAL CAN Total/NA Analysis 8260B 519393 03/08/22 15:46 LEE

Client Sample ID: MW-177S_022822 Lab Sample ID: 240-163277-2

Date Collected: 02/28/22 12:20 **Matrix: Water**

Date Received: 03/04/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519393	03/08/22 16:10	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	519472	03/08/22 23:29	CS	TAL CAN

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-163277-1

Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-22 *
Connecticut	State	PH-0590	12-31-21 *
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22 *
Illinois	NELAP	200004	07-31-22
Iowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22 *
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	11-06-22
New York	NELAP	10975	03-31-22
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	T104704517-21-14	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

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

TestAmerica	· · · · · · · · · · · · · · · · · · ·	TestAmerica Laboratories, Inc.		1 of 1 COCs Se For lab use only	Walk-ın eltenf Lab sampling		8 Sample Specific Notes / Special Instructions	1 Trip Blank	3 VOAs for 8260B 3 VOAs for 8260B			Nonth	Months	Date/Time 02/28/22 (34)		3432 R.V.
Chain of Custody Record 10448 Cliation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	NPDES RCRA Other	Site Contact- Julia McClafferty Lab Contact- Mike DelMonico	Telephone 734-644-5131 Telephone 330-497-9396	Analysis Turnaround Time Analyses	IAT fulfreen from below 3 weeks 10 day > 2 weeks	Crab≐C 808 82608	Ajuni Cylouqe 8 LCE 8590B LUSUR-1 5 DCE 4 1-DCE 8500E 4 1-DCE 8500E Comboelie=C / Comboelie=C / Anohee Maohee Maohee HILL HILL HILL HILL HILL HILL HILL H	×	7x		240-163277 Chain of Custody	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Chent Prepared by 1 sh	Alulive Full Full Alulive Full Full Full Full Full Full Full Ful	315 Received by Cold Stocase Arcac	Received by Keckery Ke	ell Norman
Chain of TestAmerica Laboratory location Brighton 10448 Citation D		Client Project Manager: Kris Hinskey Sit		Email kristoffer.hinskey@arcadis.com	Sempler Name TA	Shipping/Tracking No	Sample Date Sample Time Aqueous Sediment		02/28/22 1220 6			Potson B Unknown		Date/Time 02/128/12	Time	333
	Client Contact 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: 30088642, 402.04	PO#30080642,402.04	Sample Identification	TRIP BLANK_ [4	MW-1775-022822			Possible Hazard Identification Non-Hazard Flammable Skın Irritant		Relanguarded by:	Relinguished by	Safan UNC

Eurofins TestAmerica Canton Sample Receipt Form/Narrative Canton Facility	Login # : 105277
Client Av call Site Name	Cooler unpacked by
Cooler Received on 3-4-12 Opened on 3-4-22	A down const
FedEx. 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Course	r Opher
Receipt After-hours Drop-off Date/Time Storage Location	
TestAmerica Cooler # Foam Box Client Cooler Box Other	
COOLANT: Wet Lee Blue Ice Dry Ice Water None	
1. Cooler temperature upon receipt See Multiple Cooler Cooler temperature upon receipt	Form
IR GUN# IR-14 (CF -0.2 °C) Observed Cooler Temp. C Corrected Cooler IR GUN #IR-15 (CF -0.7 °C) Observed Cooler Temp C Corrected Cooler Temp	er Temp°C er Temp °C
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? 3. Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropriate place? 6. Was/were the person(s) who collected the samples clearly identified on the COC? 7. Did all bottles arrive in good condition (Unbroken)? 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and to were correct bottle(s) used for the test(s) indicated? 11. Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? 13. If yes, Questions 13-17 have been checked at the originating laboratory. 14. Were VOAs on the COC?	Tests that are not checked for pH by Receiving: Ves No Ves No
	∕es (No) NA ?≱s No
17. Was a LL Hg or Me Hg trip blank present?	res No
Contacted PM by via Verbal	Voice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page	Samples processed by
19. SAMPLE CONDITION	
Sample(s) were received after the recommended ho	lding time had expired.
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ed in a broken container
Sample(s) were received with bubble >6 mm	n in diameter (Notify PM)
20. SAMPLE PRESERVATION	
Sample(s) were to	further preserved in the laboratory
m: 1 10 () 11 10 () 1 ()	and the preserved in the saccions
VOA Sample Preservation - Date/Time VOAs Frozen:	

Login # : 163272

Eu	rofins TestAmerica	Canton Sample Rece	eipt Multiple Cooler For	n
Cooler Description	IR Gun #	Observed	Corrected	Coolant
(Circle)	(Circle)	Temp °C	Temp °C	(Circle)
TA Client Box Other	(R-14) IR-15	3-0	2.8	Wet ice Blue ice Dry ice Water None
(A) Client Box Other	(R±14 IR-15	1-8	1-6	Wet ice Blue ice Dry ice Water None
(TÀ) Client Box Other	1R-14 IR-15	2-4	2-2	Wefice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	iR-14 iR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
			☐ See Tempe	erature Excursion Form

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

DATA VERIFICATION REPORT



March 18, 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 WA04 OFF-SITE GW Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - North Central

Laboratory submittal: 163277-1 Sample date: 2022-02-28

Report received by CADENA: 2022-03-18

Initial Data Verification completed by CADENA: 2022-03-18

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 519393 LCS recoveries were outliers biased high for the following analytes: TRICHLOROETHENE and VINYL CHORIDE. Associated client sample results were non-detect so qualification was not required based on these high bias QC outliers.

GCMS VOC QC batch CCV response outliers 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, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA 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 - North Central

Laboratory Submittal: 163277-1

		Sample Name:	TRIP BLANK_114		-		MW-177S_022822			
		Lab Sample ID:	2401632	2771			2401632	2772		
		Sample Date:	2/28/20	22		2/28/2022				
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>0B</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
<u>OSW-826</u>	<u>OBBSim</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 # 240-163277-1

CADENA Verification Report: 2022-03-18

Analyses Performed By: TestAmerica

North Canton, Ohio

Report # 45034R Review Level: Tier III Project: 30080642.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-163277-1 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		Analysis		
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM	
TRIP BLANK_114	240-163277-1	Water	02/28/2022		Х		
MW-177S_022822	240-163277-2	Water	02/28/2022		X	X	

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
Sample receipt condition		X		X	
2. Requested analyses and sample results		Х		Х	
Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compound	Criteria
TRIP BLANK_114 MW-177S_022822		Vinyl chloride	+32.3%
	Continuous Calibration Verification %D	1,1-Dichloroethene	+25.5%
		Trichloroethene	+23%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
Initial and Continuing Calibration	RRF <0.05	Non-detect	R
	KKF <0.05	Detect	J
	RRF <0.01 ¹	Non-detect	R
	RRF <0.01	Detect	J

Initial/Continuing	Criteria	Sample Result	Qualification	
	DDE > 0.05 av DDE > 0.041	Non-detect	NI a A ation	
	RRF >0.05 or RRF >0.01 ¹	Detect	No Action	
	%RSD > 20% or a correlation coefficient		UJ	
Initial Calibration	<0.99	Detect	J	
	0/ DOD > 000/	Non-detect	R	
	%RSD > 90%	Detect	J	
	0/D - 000/ /:	Non-detect	No Action	
	%D >20% (increase in sensitivity)	Detect	J	
0 5 . 0 5 . 5	0/D - 000/ / l	Non-detect	UJ	
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J	
	0/ D > 000/ /: (days =	Non-detect	R	
	%D > 90% (increase/decrease in sensitivity)	Detect	J	

Note:

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.

¹RRF of 0.01 only applies to compounds which are typically poor responding compounds

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260B/8260B-SIM	Rep	orted	Performance Acceptable		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					
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	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD					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		X		X	
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: Bhagyashree Fulzele

SIGNATURE: Sfutzele

DATE: March 29, 2022

PEER REVIEW: Andrew Korycinski

DATE: March 30, 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 Regulatory program DW NPDES **RCRA** Other ompany Name Arcadis TestAmerica Laboratories, Inc. Client Project Manager Kris Hinskey Site Contact Julia McClafferty Lab Contact: Mike DelMonico COC No Address. 28550 Cabot Drive, Suite 500 Telephone 248-994-2240 Telephone 734-644-5131 Telephone: 330-497-9396 City/State/Zip: Novi MI, 48377 COCs 1 of 1 Email kristoffer.hinskey@arcadis.com Analysis Turnaround Time Analyses Phone: 248-994-2240 For lab use only ampler Name TAT f different from below Walk-in client Project Name Ford LTP Off-Site 3 weeks Hurmon Dominic 10 day 2 weeks Project Number: 30080642,402.04 Lab sampling Method of Shipment/Carrier 1 week Composite=C / Grab=G 1,4-Dioxane 8260B SIM 2 days Frans-1 2 DCE 8260B PO # 30080642,402,04 Vinyl Chloride 8260B Shipping/Tracking No 1 day cis-1 2-DCE 8260B Job/SDG No Matrix Containers & Preservatives **FCE 8260B** H2SO4 Sample Specific Notes / NaOH Solid НС Sample Identification Special Instructions Sample Date | Sample Time TRIP BLANK_ 114 XX Х Χ Х 1 Trip Blank MW-1775-022822 02/28/22 1220 6 3 VOAs for 8260B 6 3 VOAs for 8260B SIM Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ✓ Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Archive For Special Instructions/QC Requirements & Comments Level IV Reporting requested 4 (cadlo 02/28/22 1345 Company AY(Udis Company: Date/Time 3 3-22 1316 3/3/22 Date/Time Company Date/Time 3. 327 3-4-22 8.0

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-163277-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_114

Date Collected: 02/28/22 00:00 Date Received: 03/04/22 08:00 Lab Sample ID: 240-163277-1

Matrix: Water

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	0.49	ug/L			03/08/22 15:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/22 15:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/22 15:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/22 15:46	1
Trichloroethene	1.0	U † +	1.0	0.44	ug/L			03/08/22 15:46	1
Vinyl chloride	1.0	U * +	1.0	0.45	ug/L			03/08/22 15:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		62 - 137			•		03/08/22 15:46	1
4-Bromofluorobenzene (Surr)	114		56 - 136					03/08/22 15:46	1
Toluene-d8 (Surr)	82		78 - 122					03/08/22 15:46	1
Dibromofluoromethane (Surr)	97		73 - 120					03/08/22 15:46	1

Eurofins Canton

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-163277-1

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-163277-2 Client Sample ID: MW-177S_022822

Date Collected: 02/28/22 12:20 **Matrix: Water** Date Received: 03/04/22 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			03/08/22 23:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		66 - 120					03/08/22 23:29	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/I	MS)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/08/22 16:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/22 16:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/22 16:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/22 16:10	1
Trichloroethene	1.0	U * +	1.0	0.44	ug/L			03/08/22 16:10	1
Vinyl chloride	1.0	U * \	1.0	0.45	ug/L			03/08/22 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	74		62 - 137					03/08/22 16:10	1
4-Bromofluorobenzene (Surr)	107		56 - 136					03/08/22 16:10	1
Toluene-d8 (Surr)	83		78 - 122					03/08/22 16:10	1
Dibromofluoromethane (Surr)	93		73 - 120					03/08/22 16:10	1