

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 240-159298-1 Client Project/Site: Ford LTP - Off-Site

For:

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

Attn: Kristoffer Hinskey

Mode Del Your

Authorized for release by: 11/17/2021 12:40:20 PM

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

Michael.DelMonico@Eurofinset.com

·····LINKS ······

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www.eurofinsus.com/Env

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.

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off-Site Laboratory Job ID: 240-159298-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 240-159298-1

Project/Site: Ford LTP - Off-Site

Qualifiers

GC/MS VOA

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: 240-159298-1

Project/Site: Ford LTP - Off-Site

Job ID: 240-159298-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-159298-1

Comments

No additional comments.

Receipt

The samples were received on 11/4/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0° C.

GC/MS VOA

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

VOA Prep

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

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Method Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off-Site Job ID: 240-159298-1

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

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Sample Summary

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

Job ID: 240-159298-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-159298-1	TRIP BLANK_23	Water	11/01/21 00:00	11/04/21 08:00
240-159298-2	MW-177S_110221	Water	11/01/21 11:45	11/04/21 08:00

Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-159298-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_23 Lab Sample ID: 240-159298-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-159298-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_23

Date Collected: 11/01/21 00:00 Date Received: 11/04/21 08:00 Lab Sample ID: 240-159298-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/11/21 14:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/21 14:35	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/21 14:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/21 14:35	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/21 14:35	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/21 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		62 - 137					11/11/21 14:35	1
4-Bromofluorobenzene (Surr)	73		56 ₋ 136					11/11/21 14:35	1
Toluene-d8 (Surr)	89		78 - 122					11/11/21 14:35	1
Dibromofluoromethane (Surr)	107		73 - 120					11/11/21 14:35	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-159298-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: MW-177S_110221

Date Collected: 11/01/21 11:45 Date Received: 11/04/21 08:00 Lab Sample ID: 240-159298-2

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			11/09/21 22:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		66 - 120					11/09/21 22:48	1
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			11/11/21 14:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/21 14:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/21 14:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/21 14:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/21 14:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/21 14:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137					11/11/21 14:57	1
4-Bromofluorobenzene (Surr)	71		56 ₋ 136					11/11/21 14:57	1
Toluene-d8 (Surr)	89		78 - 122					11/11/21 14:57	1
Dibromofluoromethane (Surr)	103		73 - 120					11/11/21 14:57	1

11/17/2021

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Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-159298-1

Project/Site: Ford LTP - Off-Site

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

Matrix: Water Prep Type: Total/NA

			Percer				
		DCA	BFB	TOL	DBFM		
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)		
240-159298-1	TRIP BLANK_23	121	73	89	107		
240-159298-2	MW-177S_110221	118	71	89	103		
240-159310-H-2 MS	Matrix Spike	103	98	103	94		
240-159310-K-2 MSD	Matrix Spike Duplicate	103	96	102	92		
LCS 240-512503/4	Lab Control Sample	102	94	101	93		
MB 240-512503/7	Method Blank	114	77	90	98		

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)	
240-159298-2	MW-177S_110221	91	
240-159369-D-5 MS	Matrix Spike	92	
240-159369-D-5 MSD	Matrix Spike Duplicate	89	
_CS 240-512125/4	Lab Control Sample	93	
MB 240-512125/5	Method Blank	91	

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

Client: ARCADIS U.S., Inc. Job ID: 240-159298-1

Project/Site: Ford LTP - Off-Site

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

Lab Sample ID: MB 240-512503/7

Matrix: Water

Analysis Batch: 512503

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 11/11/21 13:07 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 11/11/21 13:07 1.0 U 0.44 ug/L Tetrachloroethene 1.0 11/11/21 13:07 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 11/11/21 13:07 Trichloroethene 1.0 U 1.0 0.44 ug/L 11/11/21 13:07 Vinyl chloride 1.0 U 1.0 0.45 ug/L 11/11/21 13:07

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 114 11/11/21 13:07 4-Bromofluorobenzene (Surr) 77 56 - 136 11/11/21 13:07 90 78 - 122 Toluene-d8 (Surr) 11/11/21 13:07 Dibromofluoromethane (Surr) 98 73 - 120 11/11/21 13:07

Lab Sample ID: LCS 240-512503/4

Matrix: Water

Analysis Batch: 512503

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	10.0	8.54		ug/L		85	63 - 134	
cis-1,2-Dichloroethene	10.0	10.9		ug/L		109	77 - 123	
Tetrachloroethene	10.0	9.61		ug/L		96	76 - 123	
trans-1,2-Dichloroethene	10.0	11.3		ug/L		113	75 - 124	
Trichloroethene	10.0	9.58		ug/L		96	70 - 122	
Vinyl chloride	10.0	8.69		ug/L		87	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 102 62 - 137 4-Bromofluorobenzene (Surr) 94 56 - 136 Toluene-d8 (Surr) 101 78 - 122 Dibromofluoromethane (Surr) 73 - 120 93

Lab Sample ID: 240-159310-H-2 MS

Matrix: Water

Analysis Batch: 512503

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	10.0	8.69		ug/L		87	56 - 135	
cis-1,2-Dichloroethene	1.0	U	10.0	9.70		ug/L		97	66 - 128	
Tetrachloroethene	1.0	U	10.0	8.74		ug/L		87	62 - 131	
trans-1,2-Dichloroethene	1.0	U	10.0	10.1		ug/L		101	56 - 136	
Trichloroethene	1.0	U	10.0	8.43		ug/L		84	61 - 124	
Vinyl chloride	1.0	U	10.0	8.11		ug/L		81	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	103		78 - 122

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Client: ARCADIS U.S., Inc.

Job ID: 240-159298-1 Project/Site: Ford LTP - Off-Site

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

Lab Sample ID: 240-159310-H-2 MS

Matrix: Water

Analysis Batch: 512503

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

%Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 94 73 - 120

Lab Sample ID: 240-159310-K-2 MSD

Matrix: Water

Analysis Batch: 512503

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	10.0	8.78		ug/L		88	56 - 135	1	26
cis-1,2-Dichloroethene	1.0	U	10.0	10.0		ug/L		100	66 - 128	3	14
Tetrachloroethene	1.0	U	10.0	8.65		ug/L		86	62 - 131	1	20
trans-1,2-Dichloroethene	1.0	U	10.0	10.2		ug/L		102	56 - 136	1	15
Trichloroethene	1.0	U	10.0	8.58		ug/L		86	61 - 124	2	15
Vinyl chloride	1.0	U	10.0	8.51		ug/L		85	43 - 157	5	24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	96		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

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

MB MB

Lab Sample ID: MB 240-512125/5

Matrix: Water

Analysis Batch: 512125

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 11/09/21 13:38 0.86 ug/L

MB MB %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 66 - 120 91 11/09/21 13:38

Lab Sample ID: LCS 240-512125/4

Matrix: Water

Analysis Batch: 512125

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 10.3 ug/L 103 80 - 122

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 93 66 - 120

Lab Sample ID: 240-159369-D-5 MS

Matrix: Water

Analysis Batch: 512125

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

%Rec.

Sample Sample Spike MS MS Result Qualifier Added Result Qualifier Unit Limits Analyte %Rec 1,4-Dioxane 2.0 U 10.0 9.49 ug/L 95 51 - 153

Eurofins TestAmerica, Canton

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-159298-1

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)	92		66 - 120								
Lab Sample ID: 240-1593 Matrix: Water Analysis Batch: 512125	369-D-5 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	11	16
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	89		66 - 120								

QC Association Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-159298-1

Project/Site: Ford LTP - Off-Site

GC/MS VOA

Analysis Batch: 512125

Lab Sample ID 240-159298-2	Client Sample ID MW-177S_110221	Prep Type Total/NA	Matrix Water	Method 8260B SIM	Prep Batch
MB 240-512125/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-512125/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-159369-D-5 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-159369-D-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 512503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159298-1	TRIP BLANK_23	Total/NA	Water	8260B	
240-159298-2	MW-177S_110221	Total/NA	Water	8260B	
MB 240-512503/7	Method Blank	Total/NA	Water	8260B	
LCS 240-512503/4	Lab Control Sample	Total/NA	Water	8260B	
240-159310-H-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-159310-K-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-159298-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_23 Lab Sample ID: 240-159298-1

Date Collected: 11/01/21 00:00 Matrix: Water Date Received: 11/04/21 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	512503	11/11/21 14:35	LEE	TAL CAN

Date Collected: 11/01/21 11:45 Date Received: 11/04/21 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	512503	11/11/21 14:57	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	512125	11/09/21 22:48	CS	TAL CAN

Laboratory References:

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

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Matrix: Water

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Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-159298-1

Project/Site: Ford LTP - Off-Site

Laboratory: Eurofins TestAmerica, 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
lowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-22
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-18-10	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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March 1900	Client Contact Company Name: Arcadis	Regula	Regulatory program:		WQ _	*	Z L	NPDES	Æ	RCRA	L	Other						I (ě	
The principle The principl	Address: 28550 Cabat Drive. Suite 500	Client Project	Manager: Kris I	linskey			Site Co	ntact: J	ılia McCla	afferty			l.ab	Contact	: Mike	DelMo	nico		COC No:	LestAmerica Laboratories, Inc COC No:
The PLANK 175 10 12 10 1	City/State/Zip: Novi, MI, 48377	Telephone: 24	8-994-2240				Teleph	one: 734	-644-5131				Tele	phone:	330-497	7-9396				1000 4 3000
Project value Part Project Part Pa	Phone: 248-994-2240	Email: kristof	fer.hinskey@arc	adis.cor	-		Ā	alysis T	irnaround	Time					lt	Ana	yses		For lab	hly
No.	Project Name: Ford LTP Off-Site Project Number: 30080642.402.04	Sampler Nam	e: Pew Bar	玉			TAT in	different fit	3 week 2 week 1 week 2 days	L				80					Walk-i Lab sa	Walk-in client Lab sampling
TRIP BLANK_23	PO# 30080642.402.04	Shipping/Trac	king No:		North				l day					CE 8590	-	10968 9			Job/SDG No.	OG No:
TRIP BLANK_25	Sample Identification	Sample Date			Sediment		-	ЮНСІ	PORA PARX HORN	-				O-S, f-ansıT						Sample Specific Notes / Special Instructions:
W.W 1775 _ 1101 Z 1 W/21 1145 X X X X X X X X X	1	1		×				-			-	₩—	-	×	╫	╂	╫──		=	1 Trip Blank
Possible Hazerd Heriffeetinn * North-Bazed "Immunite C rin frittent Proton B Trickbown Service Manufacturing Company" (Company) Reinquibled by Agricon at Journal agreements Company Reinquibled by Agricon at Journal agreement Company Reinquibled by Agricon at Journal agreement Company Reinquibled by Agricon at Journal agreements Company Reinquibled by Agricon at Journal agreement Agricol agreements Company Reinquibled by Agricon at Journal agreement Agricol agri	4	17/1/21	5411	×				ی				+ -	-	×	1	1.7			33	3 VOAs for 8260B
Possible Hazard Identification Short-Hazard Identification Short-Hazard Identification Short-Hazard Identification Short-Hazard Identification Short-Hazard Indentification Return to Chent in Disposal By Lab Archive For Information Relinquished by Moving Policy Indentification Relinquished by Moving Indentification Relinquished by Moving Indentification Relinquished by Indentification Relinquished by Moving Indentification Relinquished by Indentification Relinquished											4	-1.59	20 80 70 80	o uie	Cust	- Apol				
Special Instructions/QC Requirements & Comments: Submit all results through Cadena at Jonnalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested. Relinquished by: Relinquished by:							Sam	ple Disp	Sal (A fee	2	assesso	d if sam	ıples ar	e retain	ed lon	er than		=======================================		
Relinquished by Movi Company: Relinquished by Movi Coll Stocky Received by Movi Coll Stocky Company: C	Special Instructions/QC Requirements & Comments: Submit all results through Cadena at itomalia@caden Level IV Reporting requested.	ritant Poiss		Unknov	E		_	Return	to Client	-1	Disposa	l By La	اء	2	chive F	5		donths		
Les de le ETA WISTE 1066 MONTH BLUCK COMPANY	3	Company	CADITS	Da Da	erime:	17/	164			1 1) -	1	9	1 1	10/80		ompany	\(\frac{1}{2} \)	CRE'S	Date Time W// Date Time	ime: 1640 11/2) 1640 impl 3/21 946
	COCOL TENEMENTAL INCOME, INC. AN 1791s reserved	4	į		13/2		95			7	The state of the s	27	La	\langle	7	E 0	4		Date	4-21 8:00

TestAmerica

Chain of Custody Record

	186764
Eurofins TestAmerica Canton Sample Receipt Form/Narrative Canton Facility	Login # : 159298
Client Archolis Site Name	Cooler unpacked by:
Cooler Received on - U-) Opened on - U-)	Mandely Rlord
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier	Other
Receipt After-hours: Drop-off Date/Time Storage Location	
TestAmerica Cooler # Foam Box Client Cooler Box Other	
Packing material used: Babble Wrap Foam Plastic Bag None Other COOLANT: Wet Ice Blue Ice Dry Ice Water None	
COOLANT: Wet Ice Blue Ice Dry Ice Water None 1. Cooler temperature upon receipt 1. Cooler temperature upon receipt	-m
IR GUN# IR-14 (CF +0.1 °C) Observed Cooler Temp O °C Corrected Cooler	
IR GUN #IR-15 (CF +0.2°C) Observed Cooler Temp. °C Corrected Cooler	
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	No Tests that are not
-Were the seals on the outside of the cooler(s) signed & dated?	NA checked for pH by
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Receiving:
-Were tamper/custody seals intact and uncompromised?	No NA VOAs
3. Shippers' packing slip attached to the cooler(s)?	031
4. Did custody papers accompany the sample(s)?5. Were the custody papers relinquished & signed in the appropriate place?	No TOC
6. Was/were the person(s) who collected the samples clearly identified on the COC?	No
7. Did all bottles arrive in good condition (Unbroken)?	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sa	
10. Were correct bottle(s) used for the test(s) indicated?	No
11. Sufficient quantity received to perform indicated analyses?	No
12. Are these work share samples and all listed on the COC?	N
If yes, Questions 13-17 have been checked at the originating laboratory.	
13. Were all preserved sample(s) at the correct pH upon receipt?	No NA pH Strip Lot# HC157842
14. Were VOAs on the COC?	No
15. Were air bubbles >6 mm in any VOA vials? Larger than this.	NA NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Ys	29
17. Was a LL Hg or Me Hg trip blank present?Yes	Ng
Contacted PM by via Verbal Verb	oice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page	Samples processed by:
The TB is not logged for SIM due to insufficie	Volume one
	VIT GUANTITY III
JI-4/21	- P
10. CAMPUT COMPUTATION	
19. SAMPLE CONDITION Sample(c)	and discount to di
Sample(s) were received after the recommended holding	
Sample(s) were received Sample(s) were received with bubble >6 mm in	in a broken container. n diameter. (Notify PM)
20. SAMPLE PRESERVATION	
Sample(s) were furt Time preserved: Preservative(s) added/Lot number(s):	her preserved in the laboratory.
I ime preserved:Preservative(s) added/Lot number(s):	
VOA Sample Preservation - Date/Time VOAs Frozen:	

WI-NC-099

DATA VERIFICATION REPORT



November 17, 2021

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 WA03 OFF-SITE GW Event Specific Scope of Work References: Sample COC

Laboratory: TestAmerica - North Canton

Laboratory submittal: 159298-1 Sample date: 2021-11-01

Report received by CADENA: 2021-11-17

Initial Data Verification completed by CADENA: 2021-11-17

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
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: 159298-1

		Sample Name:	TRIP BLA	ANK_23			MW-177	7S_1102	21	
		Lab Sample ID:	2401592	2981			2401592	2982		
		Sample Date:	11/1/20	21			11/1/20	21		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>OB</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	
OSW-8260	<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 # 240-159298-1

CADENA Verification Report: 2021-11-17

Analyses Performed By: TestAmerica North Canton, Ohio

Report # 43561R Review Level: Tier III Project: 30080642.402.04

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-159298-1 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:

			Sample Collection		Ana	lysis
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM
TRIP BLANK_23	240-159298-1	Water	11/01/2021		Х	
MW-177S_110221	240-159298-2	Water	11/01/2021		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep		mance ptable	Not Required	
	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		X	
7. Laboratory sample received date		Х		X	
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_23 MW-177S_110221	Continuous Calibration Verification %D	trans-1,2-Dichloroethene	+21.5%

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
	RRF <0.05	Non-detect	R
	KKF <0.05	Detect	J
Initial and Continuing	RRF <0.01 ¹	Non-detect	R
Calibration	RRF <0.01	Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	NI- Antina
	RRF 20.03 01 RRF 20.01	Detect	No Action

Initial/Continuing	Criteria	Sample Result	Qualification
	%RSD > 20% or a correlation coefficient	Non-detect	UJ
Initial Calibration	<0.99	Detect	J
miliai Calibration	0/ DCD > 000/	Non-detect	R
	%RSD > 90%	Detect	J
	0/ D > 200/ (in avecage in a separation)	Non-detect	No Action
	%D >20% (increase in sensitivity)	Detect	J
O - utino dia m O - lila untina	0/ D > 000/ /-l	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	0/ D > 000/ /:/-	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 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.

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	Perfo Acce	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	
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		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: Brutzele

DATE: December 07, 2021

PEER REVIEW: Andrew Korycinski

DATE: December 7, 2021

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

Chain of Custody Record

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	317	1111		

190	estAmerica Labora	tory location:	Brig	hton	1044	8 Citat	ion Dr	ive, S	Suite	200	/ Brig	hton, M	II 4811	6 / 8	10-22	9-27	63						_			tere t	EADER IN ERV	OHMENTA	LIESDING
Client Contact	Regulat	ory program:			DW	V	г	NPI	DES		\mathcal{F}	RCRA		0	ther														
Company Name: Arcadis	Client Project	Manager: Kris	Hinel	(OV			Cita	Con	taati	Inke	Mai	Claffert				10.0	h C		N.421	15.11							estAmerica I	aborator	ies, Inc.
Address: 28550 Cabot Drive, Suite 500			THUS										y			li.a	b Con	tact:	Mike	Deli	Tonic	0				C	OC No:		
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240					Telephone: 734-644-5131							Te	Telephone: 330-497-9396					F	1 of 1	COO	Co						
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.	com			(12)	Ana	nalysis Turnaround Time					Analyses					Fo	r lab use only		S							
Prione: 248-994-2240	Sampler Name	•					TA	TAT if different from below															w	alk-in client	411				
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PO # 30080642.402.04	Shipping/Track	ing No:					-				2 day 1 day		3	N He		١,	9090	8			8260B	B SIM							
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Sample Identification	Sample Date	Sample Time	Air	Aqueo	Solid	Other:	H2SO4	HNO3	HC	NaOH	ZnAc/ NaOH	Unpres Other:	i		1.1	:			2	TCE	Viny	1,4-					Special I	nstruction	s:
TRIP BLANK_23		#*** W		X			Τ		1				Λ	16	; x			()	K	Х	Х	Х					1 Trip Bla	ank	
MW-1775_110121	11/1/21	1145		Х					6				1	VG	5 X	×	×	7	,	X,	X	X				\top	3 VOAs fo		SIM
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Possible Hazard Identification							+	amp	le Dis	DOSA	LCA	fee may	he asse	essed	ifsan	inles	are re	taine	Llong	er t	an I	month		\Box					
▼ Non-Hazard	itant Poiso	n B	Unk	nown				Γ	Retur	n to	Client	F	Disp	osal l	By Lat)	Г	Arcl	ive F	or [all		onths						
Submit all results through Cadena at jtomalia@cadena Level IV Reporting requested.	aco.com. Cadena #	E203631																											
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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-159298-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: TRIP BLANK_23

Date Collected: 11/01/21 00:00 Date Received: 11/04/21 08:00 Lab Sample ID: 240-159298-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/11/21 14:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/21 14:35	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/21 14:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/21 14:35	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/21 14:35	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/21 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		62 - 137					11/11/21 14:35	1
4-Bromofluorobenzene (Surr)	73		56 ₋ 136					11/11/21 14:35	1
Toluene-d8 (Surr)	89		78 - 122					11/11/21 14:35	1
Dibromofluoromethane (Surr)	107		73 - 120					11/11/21 14:35	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-159298-1

Project/Site: Ford LTP - Off-Site

Client Sample ID: MW-177S_110221

Date Collected: 11/01/21 11:45 Date Received: 11/04/21 08:00 Lab Sample ID: 240-159298-2

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			11/09/21 22:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		66 - 120					11/09/21 22:48	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			11/11/21 14:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/21 14:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/21 14:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/21 14:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/21 14:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/21 14:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		62 - 137				-	11/11/21 14:57	1
4-Bromofluorobenzene (Surr)	71		56 ₋ 136					11/11/21 14:57	1
Toluene-d8 (Surr)	89		78 - 122					11/11/21 14:57	1
Dibromofluoromethane (Surr)	103		73 - 120					11/11/21 14:57	1

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