TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 240-126394-1 Client Project/Site: Ford LTP Off Site

For:

eurofins 🗱

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

Attn: Kristoffer Hinskey

Mole Del Your

Authorized for release by: 3/3/2020 9:27:38 AM

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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: 240-126394-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 240-126394-1

Project/Site: Ford LTP Off Site

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

* LCS or LCSD is outside acceptance limits.

U Indicates the analyte was analyzed for but not detected.

X Surrogate is outside control limits

Glossary

Appreviation	These commonly used appreviations 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
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)

MDA Minimum Detectable Activity (Radiochemistry)
MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)

NC Not Calculated

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

PQL Practical Quantitation Limit

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)

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Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-126394-1

Project/Site: Ford LTP Off Site

Job ID: 240-126394-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP Off Site

Report Number: 240-126394-1

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 2/15/2020 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TRIP BLANK (240-126394-1), MW-72_021320 (240-126394-2) and MW-72S_021320 (240-126394-3) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 02/20/2020.

1,1-Dichloroethene and Tetrachloroethene failed the recovery criteria high for LCS 240-423576/4. Refer to the QC report for details.

The laboratory control sample (LCS) for 423576 recovered outside control limits for the following analytes: 1,1-Dichloroethene, Tetrachloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported: TRIP BLANK (240-126394-1), MW-72_021320 (240-126394-2), MW-72S_021320 (240-126394-3) and (LCS 240-423576/4).

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

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Samples MW-72_021320 (240-126394-2) and MW-72S_021320 (240-126394-3) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The sample was analyzed on 02/26/2020.

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Case Narrative

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

Job ID: 240-126394-1

Job ID: 240-126394-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

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

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Method Summary

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

Job ID: 240-126394-1

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

Sample Summary

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

Job ID: 240-126394-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-126394-1	TRIP BLANK	Water	02/13/20 00:00	02/15/20 09:30	
240-126394-2	MW-72_021320	Water	02/13/20 09:30	02/15/20 09:30	
240-126394-3	MW-72S_021320	Water	02/13/20 10:50	02/15/20 09:30	

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Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-126394-1

Project/Site: Ford LTP Off Site

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-126394-1

No Detections.

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Vinyl chloride	2.1	1.0	0.20 ug/L	1	8260B	Total/NA

No Detections.

This Detection Summary does not include radiochemical test results.

3/3/2020

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-126394-1

Project/Site: Ford LTP Off Site

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-126394-1

Date Collected: 02/13/20 00:00 **Matrix: Water** Date Received: 02/15/20 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U *	1.0	0.19	ug/L			02/20/20 18:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/20/20 18:10	1
Tetrachloroethene	1.0	U *	1.0	0.15	ug/L			02/20/20 18:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/20/20 18:10	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/20/20 18:10	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/20/20 18:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		75 - 130					02/20/20 18:10	1
4-Bromofluorobenzene (Surr)	59		47 - 134					02/20/20 18:10	1
Toluene-d8 (Surr)	80		69 - 122					02/20/20 18:10	1
Dibromofluoromethane (Surr)	83		78 - 129					02/20/20 18:10	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-126394-1

Project/Site: Ford LTP Off Site

Client Sample ID: MW-72_021320

Date Collected: 02/13/20 09:30 Date Received: 02/15/20 09:30

Surrogate

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Lab Sample ID: 240-126394-2

Prepared

Analyzed

02/20/20 18:32

02/20/20 18:32

02/20/20 18:32

02/20/20 18:32

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			02/26/20 16:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 133					02/26/20 16:50	1
Method: 8260B - Volatile O Analyte	•	unds (GC/ Qualifier	MS) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•	•	•	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U *	1.0 —	0.19	ug/L	<u>D</u>	Prepared	02/20/20 18:32	Dil Fac
Analyte	Result 1.0 1.0	Qualifier U * U	RL	0.19		<u>D</u>	Prepared	- <u>- </u>	Dil Fac
Analyte 1,1-Dichloroethene	Result 1.0 1.0	Qualifier U *	1.0 —	0.19 0.16	ug/L	<u> </u>	Prepared	02/20/20 18:32	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0 1.0	Qualifier U * U U *	1.0 1.0	0.19 0.16 0.15	ug/L ug/L	D	Prepared	02/20/20 18:32 02/20/20 18:32	Dil Fac 1 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	Result 1.0 1.0 1.0	Qualifier U * U * U *	1.0 1.0 1.0	0.19 0.16 0.15 0.19	ug/L ug/L ug/L	<u>D</u>	Prepared	02/20/20 18:32 02/20/20 18:32 02/20/20 18:32	Dil Fac 1 1 1 1 1 1

Limits

75 - 130

47 - 134

69 - 122

78 - 129

%Recovery Qualifier

83

61

82

85

13

Dil Fac

1 /

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-126394-1

Project/Site: Ford LTP Off Site

Client Sample ID: MW-72S_021320

Lab Sample ID: 240-126394-3 Date Collected: 02/13/20 10:50

Matrix: Water Date Received: 02/15/20 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/26/20 17:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 133					02/26/20 17:16	1
Method: 8260B - Volatile O	rganic 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			02/20/20 18:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/20/20 18:54	1
Tetrachloroethene	1.0	U *	1.0	0.15	ug/L			02/20/20 18:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/20/20 18:54	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/20/20 18:54	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/20/20 18:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		75 - 130					02/20/20 18:54	1
4-Bromofluorobenzene (Surr)	59		47 - 134					02/20/20 18:54	1
Toluene-d8 (Surr)	82		69 - 122					02/20/20 18:54	1
Dibromofluoromethane (Surr)	82		78 - 129					02/20/20 18:54	1

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-126394-1

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	(75-130)	(47-134)	(69-122)	(78-129)
240-126394-1	TRIP BLANK	83	59	80	83
240-126394-2	MW-72_021320	83	61	82	85
240-126394-3	MW-72S_021320	82	59	82	82
240-126395-B-2 MS	Matrix Spike	81	82	94	87
240-126395-B-2 MSD	Matrix Spike Duplicate	76	77	90	83
LCS 240-423576/4	Lab Control Sample	90	92	108	101
MB 240-423576/7	Method Blank	77	61	79	79

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

		DCA	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-133)	
240-126394-2	MW-72_021320	110	
240-126394-3	MW-72S_021320	111	
240-126438-G-3 MS	Matrix Spike	134 X	
240-126438-G-3 MSD	Matrix Spike Duplicate	133	
LCS 240-424320/4	Lab Control Sample	105	
MB 240-424320/5	Method Blank	105	

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

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3/3/2020

Job ID: 240-126394-1

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

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

Lab Sample ID: MB 240-423576/7

Matrix: Water

Analysis Batch: 423576

Client Samp	le ID:	Meth	od Blank
	Prep ⁻	Type:	Total/NA

•	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			02/20/20 12:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/20/20 12:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/20/20 12:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/20/20 12:21	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/20/20 12:21	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/20/20 12:21	1

	MB MB				
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77	75 - 130		02/20/20 12:21	1
4-Bromofluorobenzene (Surr)	61	47 - 134		02/20/20 12:21	1
Toluene-d8 (Surr)	79	69 - 122		02/20/20 12:21	1
Dibromofluoromethane (Surr)	79	78 - 129		02/20/20 12:21	1

Lab Sample ID: LCS 240-423576/4

Matrix: Water

Analysis Batch: 423576

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	13.0	*	ug/L		130	73 - 129	
cis-1,2-Dichloroethene	10.0	11.8		ug/L		118	75 - 124	
Tetrachloroethene	10.0	13.7	*	ug/L		137	70 - 125	
trans-1,2-Dichloroethene	10.0	12.1		ug/L		121	74 - 130	
Trichloroethene	10.0	11.5		ug/L		115	71 - 121	
Vinyl chloride	10.0	8.74		ug/L		87	61 - 134	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		75 - 130
4-Bromofluorobenzene (Surr)	92		47 - 134
Toluene-d8 (Surr)	108		69 - 122
Dibromofluoromethane (Surr)	101		78 - 129

Lab Sample ID: 240-126395-B-2 MS

Matrix: Water

Analysis Batch: 423576

Client Sample	ID:	Mat	rix Sp	oike
Pre	o Ty	/pe:	Total	/NA

-	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1000	U *	10000	8450		ug/L		84	64 - 132
cis-1,2-Dichloroethene	18000		10000	26400		ug/L		85	68 - 121
Tetrachloroethene	1000	U *	10000	9350		ug/L		93	52 - 129
trans-1,2-Dichloroethene	1000	U	10000	9240		ug/L		92	69 - 126
Trichloroethene	1000	U	10000	8740		ug/L		87	56 - 124
Vinyl chloride	7000		10000	13500		ug/L		65	49 - 136

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		75 - 130
4-Bromofluorobenzene (Surr)	82		47 - 134
Toluene-d8 (Surr)	94		69 - 122

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Client: ARCADIS U.S., Inc. Project/Site: Ford LTP Off Site Job ID: 240-126394-1

Prep Type: Total/NA

Client Sample ID: Matrix Spike

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

Lab Sample ID: 240-126395-B-2 MS

Lab Sample ID: 240-126395-B-2 MSD

Matrix: Water

Analysis Batch: 423576

MS MS

Limits Surrogate %Recovery Qualifier Dibromofluoromethane (Surr) 78 - 129 87

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

Matrix: Water

Analysis Batch: 423576

RPD Sample Sample Spike MSD MSD %Rec. Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Analyte D 1000 Ū 10000 8640 64 - 132 2 35 1,1-Dichloroethene ug/L 86 cis-1,2-Dichloroethene 18000 10000 25900 68 - 121 35 ug/L 80 2 Tetrachloroethene 1000 U* 10000 9370 ug/L 94 52 - 129n 35 trans-1,2-Dichloroethene 1000 Ü 10000 8480 85 69 - 126 35 ug/L 10000 ug/L Trichloroethene 1000 U 8130 81 56 - 124 7 35 Vinyl chloride 7000 10000 13400 ug/L 64 49 - 136 35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	76		75 - 130
4-Bromofluorobenzene (Surr)	77		47 - 134
Toluene-d8 (Surr)	90		69 - 122
Dibromofluoromethane (Surr)	83		78 - 129

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

Lab Sample ID: MB 240-424320/5

Matrix: Water

Analysis Batch: 424320

MB MB

MDL Unit Dil Fac Analyte Result Qualifier RI ח Prepared Analyzed 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 02/26/20 12:03

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 133 02/26/20 12:03 1,2-Dichloroethane-d4 (Surr) 105

Lab Sample ID: LCS 240-424320/4

Matrix: Water

Analysis Batch: 424320

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 10.0 10.5 ug/L 105 80 - 135

LCS LCS

Surrogate %Recovery Qualifier Limits 70 - 133 1,2-Dichloroethane-d4 (Surr) 105

Lab Sample ID: 240-126438-G-3 MS

Matrix: Water

Analysis Batch: 424320

Analysis Batch: 424020	Sample Sample	Spike	MS I	MS				%Rec.
Analyte	Result Qualifier	Added	Result (Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	2.0 U	10.0	9.77		ug/L		98	46 - 170

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Client Sample ID: Matrix Spike

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Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

3/3/2020

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-126394-1 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)	134	X	70 - 133

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	134	X	70 - 13

Matrix: Wa	ter
A sel step	-1-1- 404000

Lab Sample ID: 240-126438-G-3 MSD

Ana	lysis	s Ba	tch:	4243	20
	•				

_	Sample	Sample	Spike
Analyte	Result	Qualifier	Added
1,4-Dioxane	2.0	U	10.0
	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1 2-Dichloroethane-d4 (Surr)	133		70 133

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

۰	Cumpic	 matrix	•	pinto i	_ ~	DOu.	•
		Pre	p	Type:	То	tal/N	Α

	%Rec.		RPD
_	Limita	DDD	l imit

MSD	MSD				%Rec.		RPD
Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
10.9		ug/L	_	109	46 - 170	11	26

QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Off Site

Job ID: 240-126394-1

GC/MS VOA

Analysis Batch: 423576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-126394-1	TRIP BLANK	Total/NA	Water	8260B	_
240-126394-2	MW-72_021320	Total/NA	Water	8260B	
240-126394-3	MW-72S_021320	Total/NA	Water	8260B	
MB 240-423576/7	Method Blank	Total/NA	Water	8260B	
LCS 240-423576/4	Lab Control Sample	Total/NA	Water	8260B	
240-126395-B-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-126395-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 424320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-126394-2	MW-72_021320	Total/NA	Water	8260B SIM	
240-126394-3	MW-72S_021320	Total/NA	Water	8260B SIM	
MB 240-424320/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-424320/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-126438-G-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-126438-G-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-126394-1

Project/Site: Ford LTP Off Site

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-126394-1 Date Collected: 02/13/20 00:00 **Matrix: Water** Date Received: 02/15/20 09:30

Batch Batch Dilution Batch Prepared Method Factor or Analyzed **Prep Type** Type Run Number Analyst Lab TAL CAN Total/NA 02/20/20 18:10 LEE Analysis 8260B 423576

Client Sample ID: MW-72 021320

Lab Sample ID: 240-126394-2 Date Collected: 02/13/20 09:30 **Matrix: Water**

Date Received: 02/15/20 09:30

Batch Batch Dilution Batch Prepared **Prep Type** Type Method Run **Factor** Number or Analyzed Analyst Lab Total/NA TAL CAN Analysis 8260B 423576 02/20/20 18:32 LEE Total/NA Analysis 8260B SIM 1 424320 02/26/20 16:50 SAM TAL CAN

Client Sample ID: MW-72S 021320 Lab Sample ID: 240-126394-3

Date Collected: 02/13/20 10:50 **Matrix: Water**

Date Received: 02/15/20 09:30

Batch **Batch** Dilution Batch Prepared Method **Prep Type** Type Run **Factor** Number or Analyzed Analyst Lab Total/NA Analysis 8260B 423576 02/20/20 18:54 LEE TAL CAN Total/NA Analysis 8260B SIM 424320 02/26/20 17:16 SAM TAL CAN 1

Laboratory References:

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

3/3/2020

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-126394-1 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	02-23-20 *
Connecticut	State	PH-0590	12-31-19 *
Florida	NELAP	E87225	06-30-20
Georgia	State	4062	02-23-20 *
Illinois	NELAP	004498	07-31-20
lowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-20
Kentucky (WW)	State	KY98016	12-31-20
Minnesota	NELAP	OH00048	12-31-20
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-20
New York	NELAP	10975	03-31-20
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-23-20 *
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-18-10	08-31-20
USDA	US Federal Programs	P330-16-00404	12-28-19 *
Virginia	NELAP	010101	09-14-20
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

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

Brighton --- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 Site Contact: Julia McClafferty Analysis Turnaround Time 3 weeks Tweek 2 days 1 day Telephone: 734-644-5131 HO#N 240-126394 Chain of Custody HOEN 2 HCI 2 NPDES 10 day EONH HISON Other:

2

0930

2/8/20

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RS01/02/81/2

MW-725-021320

MN-72_021320

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1-TINP Blank

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Sample Specific Notes / Special Instructions:

TestAmerica

Chain of Custody Record

TestAmerica Laboratories, Inc COC No:

ab Contact: Mike DelMonico

Telephone: 330-497-9396

Valk-in client gnildmes de

bh/SDG No

Vinyl Chloride 82608

Trans-1,2-DCE 8260B

Composite=C / Grab=G

Villered Sample (Y / X)

CE 8590B

SCE 85908

1'1-DCE 8500B

Огрет:

Unpres

pilos

snoanby

111

Sample Time

Sample Date

Sample Identification

Sampler Name: PAIR REDUNE

Method of Shipment/Carrier

roject Number: 30042006.0402.02 roject Name: Ford LTP Off-Site

PO # 30042006.0402.02

Shipping/Tracking No:

Emnil: kristoffer.hinskey@arcadis.com

Client Project Manager: Kris Hinskey

Telephone: 248-994-2240

TestAmerica Laboratory location:

MICHIGAN 2-0-(Q7)

Regulatory program:

Client Contact

Address: 28550 Cabot Drive, Suite 500

Jty/State/Zip: Novi, MI, 48377

none: 248-994-2240

B 2/W/20 1334 2/13/20 1130 2/1/2 Date Time: の本ワール Arcails APCODIS AR HOIS 2-15-20 930 Holly Masser Starger Received in Laboratory De Pr COCHS 2/H120 1445 1130 3 2/13/20 2/3/2 2/14/20 STA-MI KALAN ARANK Pricedis CARCAGE BIREFA for HILARY eclinguished; /

Unknown

Poison B

cin Irritan

Special Instructions/QC Requirements & Comments:

ossible Hazard Identification

Submit all results through Cadena at Itomalia@cadenaco.com, Cadena #E203631 .evel IV Reporting requested.

Eurofins TestAmerica Canton Sample Receipt Form/Narrative Canton Facility	Login #: 17699
Client Arcadis Site Name	Cooler unpacked by:
Cooler Received on 2-15-70 Opened on 2-15-70	
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: Bubble Wrap Foam Plastic Bag None Other	
COOLANT: Wet Ise Blue Ice Dry Ice Water None	
 Cooler temperature upon receipt See Multiple Cooler F 	
IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp. 20 °C Corrected Cooler IR GUN#IR-11 (CF +0.9 °C) Observed Cooler Temp. °C Corrected Cooler	Temp°C Temp°C
2. It was miniposed and an arranged and arranged arranged and arranged arranged and arranged arranged and arranged arran	ès No
	es No NA ,
	es No
there uniperiouslossy seems miner and accompany	es No NA
5. Shippers packing ship attached to the observer.	es No
1. Did castody papers mercurpus,	Tests that are not
5. Here the custody pupers reminiments and the second seco	checked for pH by
o. Was here the person(e) who remains	es No Receiving:
J. Did all bottles and a good	es No VOAs
o. Could all bothe labels be recommended with any	es No Oil and Grease
y. Well collect bottle(b) and let all resits and le	es No TOC
10. Dufficient quantity received to personal	es (Ng
11. Are these work share samples? You gray the samples of the sam	23 (14)
12. Were all preserved sample(s) at the correct pH upon receipt?	es No NA pH Strip Lot# HC995364
	es No
15. Hole to the order	es No NA
	es No
16. Was a LL Hg or Me Hg trip blank present?Y	es Nø
Contacted PM Date by via Verbal	Voice Mail Other
Concerning	
	Samples processed by:
17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	Sumpres processes 5).
18. SAMPLE CONDITION	later after the discountry to
Sample(s) were received after the recommended ho	ed in a broken container.
Sample(s) were received with bubble >6 mm	n in diameter. (Notity PM)
19. SAMPLE PRESERVATION	
Sample(s) were	further preserved in the laboratory.
Sample(s) were : Time preserved: Preservative(s) added/Lot number(s):	
VOA Sample Preservation - Date/Time VOAs Frozen:	
VOA Sample Freservation - Date/Time VOAs Frozen.	