

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-126395-1  
Client Project/Site: Ford LTP On Site

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

Attn: Kristoffer Hinskey



---

Authorized for release by:  
3/3/2020 9:28:14 AM

Michael DelMonico, Project Manager I  
(330)497-9396  
[michael.delmonico@testamericainc.com](mailto:michael.delmonico@testamericainc.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:  
[www.testamericainc.com](http://www.testamericainc.com)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*



# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Method Summary . . . . .	6
Sample Summary . . . . .	7
Detection Summary . . . . .	8
Client Sample Results . . . . .	9
Surrogate Summary . . . . .	11
QC Sample Results . . . . .	12
QC Association Summary . . . . .	15
Lab Chronicle . . . . .	16
Certification Summary . . . . .	17
Chain of Custody . . . . .	18

# Definitions/Glossary

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

Job ID: 240-126395-1

## 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

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
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)

# Case Narrative

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

Job ID: 240-126395-1

**Job ID: 240-126395-1**

**Laboratory: Eurofins TestAmerica, Canton**

## Narrative

### CASE NARRATIVE

**Client: ARCADIS U.S., Inc.**

**Project: Ford LTP On Site**

**Report Number: 240-126395-1**

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 (240-126395-1) and MW-49\_021320 (240-126395-2) 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.

Sample MW-49\_021320 (240-126395-2)[1000X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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 (240-126395-1) 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)**

Sample MW-49\_021320 (240-126395-2) was analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846

# Case Narrative

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

Job ID: 240-126395-1

---

## Job ID: 240-126395-1 (Continued)

---

### Laboratory: Eurofins TestAmerica, Canton (Continued)

Method 8260B SIM. The samples were analyzed on 02/26/2020.

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

1

2

3

4

5

6

7

8

9

10

11

12

13

14

# Method Summary

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

Job ID: 240-126395-1

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Sample Summary

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

Job ID: 240-126395-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-126395-1	TRIP BLANK	Water	02/13/20 00:00	02/15/20 09:30	
240-126395-2	MW-49_021320	Water	02/13/20 12:23	02/15/20 09:30	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Detection Summary

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

Job ID: 240-126395-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-126395-1**

No Detections.

**Client Sample ID: MW-49\_021320**

**Lab Sample ID: 240-126395-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	7.3		2.0	0.86	ug/L	1		8260B SIM	Total/NA
cis-1,2-Dichloroethene	18000		1000	160	ug/L	1000		8260B	Total/NA
Vinyl chloride	7000		1000	200	ug/L	1000		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton



# Client Sample Results

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

Job ID: 240-126395-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-126395-1**

**Date Collected: 02/13/20 00:00**

**Matrix: Water**

**Date Received: 02/15/20 09:30**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U *	1.0	0.19	ug/L			02/20/20 19:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/20/20 19:16	1
Tetrachloroethene	1.0	U *	1.0	0.15	ug/L			02/20/20 19:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/20/20 19:16	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/20/20 19:16	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/20/20 19:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		75 - 130		02/20/20 19:16	1
4-Bromofluorobenzene (Surr)	59		47 - 134		02/20/20 19:16	1
Toluene-d8 (Surr)	81		69 - 122		02/20/20 19:16	1
Dibromofluoromethane (Surr)	84		78 - 129		02/20/20 19:16	1

# Client Sample Results

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

Job ID: 240-126395-1

**Client Sample ID: MW-49\_021320**

**Lab Sample ID: 240-126395-2**

Date Collected: 02/13/20 12:23

Matrix: Water

Date Received: 02/15/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	7.3		2.0	0.86	ug/L			02/26/20 16:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 133					02/26/20 16:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1000	U *	1000	190	ug/L			02/20/20 19:37	1000
cis-1,2-Dichloroethene	18000		1000	160	ug/L			02/20/20 19:37	1000
Tetrachloroethene	1000	U *	1000	150	ug/L			02/20/20 19:37	1000
trans-1,2-Dichloroethene	1000	U	1000	190	ug/L			02/20/20 19:37	1000
Trichloroethene	1000	U	1000	100	ug/L			02/20/20 19:37	1000
Vinyl chloride	7000		1000	200	ug/L			02/20/20 19:37	1000
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		75 - 130					02/20/20 19:37	1000
4-Bromofluorobenzene (Surr)	59		47 - 134					02/20/20 19:37	1000
Toluene-d8 (Surr)	79		69 - 122					02/20/20 19:37	1000
Dibromofluoromethane (Surr)	81		78 - 129					02/20/20 19:37	1000

# Surrogate Summary

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

Job ID: 240-126395-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (75-130)	BFB (47-134)	TOL (69-122)	DBFM (78-129)
240-126395-1	TRIP BLANK	82	59	81	84
240-126395-2	MW-49_021320	79	59	79	81
240-126395-2 MS	MW-49_021320	81	82	94	87
240-126395-2 MSD	MW-49_021320	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

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (70-133)
240-126395-2	MW-49_021320	104
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

#### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-126395-1

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

**Lab Sample ID: MB 240-423576/7**  
**Matrix: Water**  
**Analysis Batch: 423576**

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

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%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

Surrogate	LCS %Recovery	LCS 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: 240-126395-2 MS**  
**Matrix: Water**  
**Analysis Batch: 423576**

**Client Sample ID: MW-49\_021320**  
**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

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

Eurofins TestAmerica, Canton

# QC Sample Results

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

Job ID: 240-126395-1

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

**Lab Sample ID: 240-126395-2 MS**  
**Matrix: Water**  
**Analysis Batch: 423576**

**Client Sample ID: MW-49\_021320**  
**Prep Type: Total/NA**

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

**Lab Sample ID: 240-126395-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 423576**

**Client Sample ID: MW-49\_021320**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,1-Dichloroethene	1000	U *	10000	8640		ug/L		86	64 - 132	2	35
cis-1,2-Dichloroethene	18000		10000	25900		ug/L		80	68 - 121	2	35
Tetrachloroethene	1000	U *	10000	9370		ug/L		94	52 - 129	0	35
trans-1,2-Dichloroethene	1000	U	10000	8480		ug/L		85	69 - 126	9	35
Trichloroethene	1000	U	10000	8130		ug/L		81	56 - 124	7	35
Vinyl chloride	7000		10000	13400		ug/L		64	49 - 136	1	35

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
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**

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

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

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

**Lab Sample ID: LCS 240-424320/4**  
**Matrix: Water**  
**Analysis Batch: 424320**

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

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

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

**Lab Sample ID: 240-126438-G-3 MS**  
**Matrix: Water**  
**Analysis Batch: 424320**

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

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

Eurofins TestAmerica, Canton

# QC Sample Results

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

Job ID: 240-126395-1

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

<i>Surrogate</i>	<i>MS</i> <i>%Recovery</i>	<i>MS</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	134	X	70 - 133

**Lab Sample ID: 240-126438-G-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 424320**

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

<i>Analyte</i>	<i>Sample</i> <i>Result</i>	<i>Sample</i> <i>Qualifier</i>	<i>Spike</i> <i>Added</i>	<i>MSD</i> <i>Result</i>	<i>MSD</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i> <i>Limits</i>	<i>RPD</i>	<i>RPD</i> <i>Limit</i>
1,4-Dioxane	2.0	U	10.0	10.9		ug/L		109	46 - 170	11	26

<i>Surrogate</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	133		70 - 133

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# QC Association Summary

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

Job ID: 240-126395-1

## GC/MS VOA

### Analysis Batch: 423576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-126395-1	TRIP BLANK	Total/NA	Water	8260B	
240-126395-2	MW-49_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	
240-126395-2 MS	MW-49_021320	Total/NA	Water	8260B	
240-126395-2 MSD	MW-49_021320	Total/NA	Water	8260B	

### Analysis Batch: 424320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-126395-2	MW-49_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	

# Lab Chronicle

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

Job ID: 240-126395-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-126395-1**

**Date Collected: 02/13/20 00:00**

**Matrix: Water**

**Date Received: 02/15/20 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	423576	02/20/20 19:16	LEE	TAL CAN

**Client Sample ID: MW-49\_021320**

**Lab Sample ID: 240-126395-2**

**Date Collected: 02/13/20 12:23**

**Matrix: Water**

**Date Received: 02/15/20 09:30**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1000	423576	02/20/20 19:37	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	424320	02/26/20 16:24	SAM	TAL CAN

**Laboratory References:**

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



# Accreditation/Certification Summary

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

Job ID: 240-126395-1

## 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
Iowa	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.

Eurofins TestAmerica, Canton

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

Regulatory program:  DW  NPDES  RCRA  Other

Client Contact  
Company Name: Arcadis  
Address: 28550 Cabot Drive, Suite 500  
City/State/Zip: Novi, MI, 48377  
Phone: 248-994-2240

Client Project Manager: Kris Hinsky  
Telephone: 248-994-2240  
Email: kris@hinsky@arcadis.com

Sampler Name: *Kristoffer Hinsky*  
Method of Shipment/Carrier:  
Shipping/Tracking No:

TestAmerica Laboratories, Inc.  
COC No: \_\_\_\_\_  
Lab Contact: Mike DeMonico  
Telephone: 330-497-9396

Site Contact: Julia McClafferty  
Telephone: 734-644-5131

Analysis turnaround time:  
TAT (if different from below)  
10 day  3 weeks   
1 week  2 weeks   
2 days  1 day

Filtered Sample (Y / N)

Sample Identification	Sample Date	Sample Time	Matrix				Containers & Preservatives				Filtered Sample (Y / N)	ANALYSES						Sample Specific Notes / Special Instructions:			
			Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH		ZnAc	NaOH	Other:	Composite C / Grab-G	1,1-DCE 8260B	cis-1,2-DCE 8260B		Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B
TRIP BLANK	---	---	1									NG	X	X	X	X	X	X	X	X	1 Trip Blank
MW-49-021320	2/13/20	1223	6									NG	X	X	X	X	X	X	X	X	3 VOAs for 8260B 3 PAs for 8260B SIM





Possible Hazard Identification  
 Non-Hazard  flammable  Irritant  Poison B  Unknown

Special Instructions/QC Requirements & Comments:

Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728  
Level IV Reporting requested.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
<i>Kristoffer Hinsky</i>	Arcadis	2/13/20 1315	<i>Molly Maxson</i>	Arcadis	2/13/20 1315
<i>Rachel Bleak</i>	Arcadis	2/13/20 1700	<i>Molly Maxson</i>	Arcadis	2/13/20 1700
<i>Rachel Bleak</i>	Arcadis	2/13/20 1700	<i>Molly Maxson</i>	Arcadis	2/13/20 1700
<i>Rachel Bleak</i>	Arcadis	2/14/20 1334	<i>Molly Maxson</i>	Arcadis	2/14/20 1334
<i>Rachel Bleak</i>	Arcadis	2/14/20 1445	<i>Molly Maxson</i>	Arcadis	2/14/20 1445



<b>Eurofins TestAmerica Canton Sample Receipt Form/Narrative</b>				Login # : <u>126395</u>	
<b>Canton Facility</b>					
Client <u>ArCADIS</u>		Site Name _____		Cooler unpacked by: _____	
Cooler Received on <u>2-15-20</u>		Opened on <u>2-15-20</u>			
FedEx: 1 <sup>st</sup> Grd <input checked="" type="checkbox"/> Exp		UPS FAS Clipper		Client Drop Off TestAmerica Courier Other _____	
<b>Receipt After-hours: Drop-off Date/Time</b>			<b>Storage Location</b>		
TestAmerica Cooler # <u>7A</u>		Foam Box Client Cooler		Box Other _____	
Packing material used: <u>Bubble</u> Wrap		Foam Plastic Bag		None Other _____	
COOLANT: <u>Wet Ice</u>		Blue Ice Dry Ice		Water None	
1. Cooler temperature upon receipt		<input type="checkbox"/> See Multiple Cooler Form			
IR GUN# IR-10 (CF +0.7 °C)		Observed Cooler Temp. <u>20</u> °C		Corrected Cooler Temp. <u>27</u> °C	
IR GUN #IR-11 (CF +0.9 °C)		Observed Cooler Temp. _____ °C		Corrected Cooler Temp. _____ °C	
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u>		Yes No			
-Were the seals on the outside of the cooler(s) signed & dated?		Yes No NA			
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?		Yes <u>No</u>			
-Were tamper/custody seals intact and uncompromised?		Yes No NA			
3. Shippers' packing slip attached to the cooler(s)?		Yes No			
4. Did custody papers accompany the sample(s)?		Yes No			
5. Were the custody papers relinquished & signed in the appropriate place?		Yes No			
6. Was/were the person(s) who collected the samples clearly identified on the COC?		Yes <u>No</u>			
7. Did all bottles arrive in good condition (Unbroken)?		Yes No			
8. Could all bottle labels be reconciled with the COC?		Yes No			
9. Were correct bottle(s) used for the test(s) indicated?		Yes No			
10. Sufficient quantity received to perform indicated analyses?		Yes No			
11. Are these work share samples?		Yes <u>No</u>			
If yes, Questions 12-16 have been checked at the originating laboratory.					
12. Were all preserved sample(s) at the correct pH upon receipt?		Yes No <u>NA</u>		pH Strip Lot# <u>HC995364</u>	
13. Were VOAs on the COC?		Yes No			
14. Were air bubbles >6 mm in any VOA vials?  Larger than this.		Yes <u>No</u> NA			
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____		Yes No			
16. Was a LL Hg or Me Hg trip blank present? _____		Yes <u>No</u>			
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____					
Concerning _____					

**Tests that are not checked for pH by Receiving:**

VOAs  
Oil and Grease  
TOC

<b>17. CHAIN OF CUSTODY &amp; SAMPLE DISCREPANCIES</b>		Samples processed by: <u>MS</u>
<hr/> <hr/> <hr/> <hr/> <hr/> <hr/>		
<b>18. SAMPLE CONDITION</b>		
Sample(s) _____ were received after the recommended holding time had expired.		
Sample(s) _____ were received in a broken container.		
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)		
<b>19. SAMPLE PRESERVATION</b>		
Sample(s) _____ were further preserved in the laboratory.		
Time preserved: _____ Preservative(s) added/Lot number(s): _____		
VOA Sample Preservation - Date/Time VOAs Frozen: _____		