

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-114178-1

Client Project/Site: Ford LTP Livonia MI - E203728

**For:**

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

Attn: Kristoffer Hinskey



---

Authorized for release by:  
6/26/2019 3:20:09 PM

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 . . . . .	13
QC Sample Results . . . . .	14
QC Association Summary . . . . .	18
Lab Chronicle . . . . .	19
Certification Summary . . . . .	20
Chain of Custody . . . . .	21
Receipt Checklists . . . . .	24

# Definitions/Glossary

Client: ARCADIS U.S., Inc.  
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114178-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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
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 Livonia MI - E203728

Job ID: 240-114178-1

**Job ID: 240-114178-1**

**Laboratory: Eurofins TestAmerica, Canton**

**Narrative**

## CASE NARRATIVE

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

**Project: Ford LTP Livonia MI - E203728**

**Report Number: 240-114178-1**

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 6/12/2019 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.5° C, 3.9° C and 4.5° C.

### **VOLATILE ORGANIC COMPOUNDS (GCMS)**

Samples MW-53\_06102019 (240-114178-1), MW-54\_06102019 (240-114178-2), MW-54S\_06102019 (240-114178-3) and TRIP BLANK (240-114178-4) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/21/2019 and 06/22/2019.

Internal standard is outside QC acceptance criteria but there is insufficient sample to re-analyze: TRIP BLANK (240-114178-4).

No MS/MSD in batch 385516 due to the internal standards dropping: MW-54\_06102019 (240-114178-2), MW-54S\_06102019 (240-114178-3) and TRIP BLANK (240-114178-4).

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-53\_06102019 (240-114178-1), MW-54\_06102019 (240-114178-2), MW-54S\_06102019 (240-114178-3) and TRIP BLANK (240-114178-4) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 06/16/2019.

# Case Narrative

Client: ARCADIS U.S., Inc.  
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114178-1

---

## Job ID: 240-114178-1 (Continued)

---

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

1,4-Dioxane was detected in method blank MB 240-386387/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

No additional 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
- 15

# Method Summary

Client: ARCADIS U.S., Inc.  
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114178-1

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 Livonia MI - E203728

Job ID: 240-114178-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-114178-1	MW-53_06102019	Water	06/10/19 12:15	06/12/19 08:40	
240-114178-2	MW-54_06102019	Water	06/10/19 13:50	06/12/19 08:40	
240-114178-3	MW-54S_06102019	Water	06/10/19 15:20	06/12/19 08:40	
240-114178-4	TRIP BLANK	Water	06/10/19 00:00	06/12/19 08:40	

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

# Detection Summary

Client: ARCADIS U.S., Inc.  
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114178-1

## Client Sample ID: MW-53\_06102019

Lab Sample ID: 240-114178-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.5	B	2.0	0.86	ug/L	1		8260B SIM	Total/NA

## Client Sample ID: MW-54\_06102019

Lab Sample ID: 240-114178-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.0	B	2.0	0.86	ug/L	1		8260B SIM	Total/NA
Vinyl chloride	0.87	J	1.0	0.20	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-54S\_06102019

Lab Sample ID: 240-114178-3

No Detections.

## Client Sample ID: TRIP BLANK

Lab Sample ID: 240-114178-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton



# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114178-1

**Client Sample ID: MW-53\_06102019**

**Lab Sample ID: 240-114178-1**

Date Collected: 06/10/19 12:15

Matrix: Water

Date Received: 06/12/19 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.5	B	2.0	0.86	ug/L			06/16/19 09:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		63 - 125					06/16/19 09:57	1

**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			06/22/19 17:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/22/19 17:13	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/22/19 17:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/22/19 17:13	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/22/19 17:13	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/22/19 17:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 121					06/22/19 17:13	1
4-Bromofluorobenzene (Surr)	95		59 - 120					06/22/19 17:13	1
Toluene-d8 (Surr)	106		70 - 123					06/22/19 17:13	1
Dibromofluoromethane (Surr)	108		75 - 128					06/22/19 17:13	1

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114178-1

**Client Sample ID: MW-54\_06102019**

**Lab Sample ID: 240-114178-2**

Date Collected: 06/10/19 13:50

Matrix: Water

Date Received: 06/12/19 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.0	B	2.0	0.86	ug/L			06/16/19 10:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		63 - 125		06/16/19 10:22	1

**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			06/21/19 16:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/21/19 16:12	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/21/19 16:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/21/19 16:12	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/21/19 16:12	1
Vinyl chloride	0.87	J	1.0	0.20	ug/L			06/21/19 16:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 121		06/21/19 16:12	1
4-Bromofluorobenzene (Surr)	65		59 - 120		06/21/19 16:12	1
Toluene-d8 (Surr)	79		70 - 123		06/21/19 16:12	1
Dibromofluoromethane (Surr)	102		75 - 128		06/21/19 16:12	1

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114178-1

**Client Sample ID: MW-54S\_06102019**

**Lab Sample ID: 240-114178-3**

Date Collected: 06/10/19 15:20

Matrix: Water

Date Received: 06/12/19 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			06/16/19 10:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		63 - 125		06/16/19 10:47	1

**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			06/21/19 16:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/21/19 16:34	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/21/19 16:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/21/19 16:34	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/21/19 16:34	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/21/19 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 121		06/21/19 16:34	1
4-Bromofluorobenzene (Surr)	67		59 - 120		06/21/19 16:34	1
Toluene-d8 (Surr)	77		70 - 123		06/21/19 16:34	1
Dibromofluoromethane (Surr)	106		75 - 128		06/21/19 16:34	1

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114178-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-114178-4**

Date Collected: 06/10/19 00:00

Matrix: Water

Date Received: 06/12/19 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			06/16/19 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		63 - 125		06/16/19 11:12	1

**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			06/21/19 16:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/21/19 16:56	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/21/19 16:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/21/19 16:56	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/21/19 16:56	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/21/19 16:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 121		06/21/19 16:56	1
4-Bromofluorobenzene (Surr)	66		59 - 120		06/21/19 16:56	1
Toluene-d8 (Surr)	72		70 - 123		06/21/19 16:56	1
Dibromofluoromethane (Surr)	103		75 - 128		06/21/19 16:56	1

# Surrogate Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114178-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-121)	BFB (59-120)	TOL (70-123)	DBFM (75-128)
240-114178-1	MW-53_06102019	103	95	106	108
240-114178-2	MW-54_06102019	102	65	79	102
240-114178-3	MW-54S_06102019	102	67	77	106
240-114178-4	TRIP BLANK	98	66	72	103
240-114181-G-3 MS	Matrix Spike	94	99	103	97
240-114181-L-3 MSD	Matrix Spike Duplicate	90	96	98	94
LCS 240-387516/4	Lab Control Sample	82	90	98	84
LCS 240-387696/4	Lab Control Sample	102	106	111	101
LCSD 240-387696/8	Lab Control Sample Dup	100	105	112	101
MB 240-387516/6	Method Blank	93	65	80	90
MB 240-387696/6	Method Blank	106	93	108	102

#### 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
		(63-125)
240-114178-1	MW-53_06102019	92
240-114178-2	MW-54_06102019	88
240-114178-3	MW-54S_06102019	94
240-114178-4	TRIP BLANK	91
240-114181-B-3 MS	Matrix Spike	87
240-114181-B-3 MSD	Matrix Spike Duplicate	94
LCS 240-386387/4	Lab Control Sample	92
MB 240-386387/5	Method Blank	91

#### Surrogate Legend

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

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114178-1

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

**Lab Sample ID: MB 240-387516/6**  
**Matrix: Water**  
**Analysis Batch: 387516**

**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			06/21/19 12:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/21/19 12:12	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/21/19 12:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/21/19 12:12	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/21/19 12:12	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/21/19 12:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 121		06/21/19 12:12	1
4-Bromofluorobenzene (Surr)	65		59 - 120		06/21/19 12:12	1
Toluene-d8 (Surr)	80		70 - 123		06/21/19 12:12	1
Dibromofluoromethane (Surr)	90		75 - 128		06/21/19 12:12	1

**Lab Sample ID: LCS 240-387516/4**  
**Matrix: Water**  
**Analysis Batch: 387516**

**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	8.96		ug/L		90	65 - 139
cis-1,2-Dichloroethene	10.0	8.64		ug/L		86	76 - 128
Tetrachloroethene	10.0	9.65		ug/L		96	74 - 130
trans-1,2-Dichloroethene	10.0	9.12		ug/L		91	78 - 133
Trichloroethene	10.0	8.96		ug/L		90	76 - 125
Vinyl chloride	10.0	8.93		ug/L		89	58 - 143

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		70 - 121
4-Bromofluorobenzene (Surr)	90		59 - 120
Toluene-d8 (Surr)	98		70 - 123
Dibromofluoromethane (Surr)	84		75 - 128

**Lab Sample ID: MB 240-387696/6**  
**Matrix: Water**  
**Analysis Batch: 387696**

**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			06/22/19 13:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/22/19 13:52	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/22/19 13:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/22/19 13:52	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/22/19 13:52	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/22/19 13:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 121		06/22/19 13:52	1
4-Bromofluorobenzene (Surr)	93		59 - 120		06/22/19 13:52	1
Toluene-d8 (Surr)	108		70 - 123		06/22/19 13:52	1

Eurofins TestAmerica, Canton

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114178-1

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

**Lab Sample ID: MB 240-387696/6**  
**Matrix: Water**  
**Analysis Batch: 387696**

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	102		75 - 128		06/22/19 13:52	1

**Lab Sample ID: LCS 240-387696/4**  
**Matrix: Water**  
**Analysis Batch: 387696**

**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	11.0		ug/L		110	65 - 139	
cis-1,2-Dichloroethene	10.0	10.8		ug/L		108	76 - 128	
Tetrachloroethene	10.0	9.53		ug/L		95	74 - 130	
trans-1,2-Dichloroethene	10.0	10.8		ug/L		108	78 - 133	
Trichloroethene	10.0	9.42		ug/L		94	76 - 125	
Vinyl chloride	10.0	9.80		ug/L		98	58 - 143	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	102		70 - 121
4-Bromofluorobenzene (Surr)	106		59 - 120
Toluene-d8 (Surr)	111		70 - 123
Dibromofluoromethane (Surr)	101		75 - 128

**Lab Sample ID: LCSD 240-387696/8**  
**Matrix: Water**  
**Analysis Batch: 387696**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
1,1-Dichloroethene	10.0	11.0		ug/L		110	65 - 139	0	35	
cis-1,2-Dichloroethene	10.0	10.5		ug/L		105	76 - 128	3	35	
Tetrachloroethene	10.0	9.10		ug/L		91	74 - 130	5	35	
trans-1,2-Dichloroethene	10.0	10.9		ug/L		109	78 - 133	1	35	
Trichloroethene	10.0	9.64		ug/L		96	76 - 125	2	35	
Vinyl chloride	10.0	10.3		ug/L		103	58 - 143	5	35	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		70 - 121
4-Bromofluorobenzene (Surr)	105		59 - 120
Toluene-d8 (Surr)	112		70 - 123
Dibromofluoromethane (Surr)	101		75 - 128

**Lab Sample ID: 240-114181-G-3 MS**  
**Matrix: Water**  
**Analysis Batch: 387696**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
1,1-Dichloroethene	1.0	U	10.0	8.51		ug/L		85	53 - 140	
cis-1,2-Dichloroethene	1.0	U	10.0	9.72		ug/L		97	64 - 130	
Tetrachloroethene	1.0	U	10.0	7.38		ug/L		74	51 - 136	
trans-1,2-Dichloroethene	1.0	U	10.0	9.53		ug/L		95	68 - 133	
Trichloroethene	1.0	U	10.0	7.85		ug/L		79	55 - 131	

Eurofins TestAmerica, Canton

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114178-1

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

**Lab Sample ID: 240-114181-G-3 MS**  
**Matrix: Water**  
**Analysis Batch: 387696**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	1.5		10.0	8.91		ug/L		74	43 - 154
<b>Surrogate</b>	<b>MS %Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
1,2-Dichloroethane-d4 (Surr)	94		70 - 121						
4-Bromofluorobenzene (Surr)	99		59 - 120						
Toluene-d8 (Surr)	103		70 - 123						
Dibromofluoromethane (Surr)	97		75 - 128						

**Lab Sample ID: 240-114181-L-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 387696**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	1.0	U	10.0	9.50		ug/L		95	53 - 140	11	35
cis-1,2-Dichloroethene	1.0	U	10.0	9.86		ug/L		99	64 - 130	1	21
Tetrachloroethene	1.0	U	10.0	8.11		ug/L		81	51 - 136	9	23
trans-1,2-Dichloroethene	1.0	U	10.0	9.50		ug/L		95	68 - 133	0	24
Trichloroethene	1.0	U	10.0	8.22		ug/L		82	55 - 131	5	23
Vinyl chloride	1.5		10.0	10.0		ug/L		85	43 - 154	12	29
<b>Surrogate</b>	<b>MSD %Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
1,2-Dichloroethane-d4 (Surr)	90		70 - 121								
4-Bromofluorobenzene (Surr)	96		59 - 120								
Toluene-d8 (Surr)	98		70 - 123								
Dibromofluoromethane (Surr)	94		75 - 128								

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

**Lab Sample ID: MB 240-386387/5**  
**Matrix: Water**  
**Analysis Batch: 386387**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.951	J	2.0	0.86	ug/L			06/16/19 05:43	1
<b>Surrogate</b>	<b>MB %Recovery</b>	<b>MB Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	91		63 - 125					06/16/19 05:43	1

**Lab Sample ID: LCS 240-386387/4**  
**Matrix: Water**  
**Analysis Batch: 386387**

**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	12.6		ug/L		126	59 - 131
<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
1,2-Dichloroethane-d4 (Surr)	92		63 - 125				

Eurofins TestAmerica, Canton



# QC Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114178-1

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

**Lab Sample ID: 240-114181-B-3 MS**  
**Matrix: Water**  
**Analysis Batch: 386387**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.0	U	10.0	12.0		ug/L		120	52 - 129
<b>MS MS</b>									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	87		63 - 125						

**Lab Sample ID: 240-114181-B-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 386387**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	12.6		ug/L		126	52 - 129	4	13
<b>MSD MSD</b>											
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	94		63 - 125								



# QC Association Summary

Client: ARCADIS U.S., Inc.  
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114178-1

## GC/MS VOA

### Analysis Batch: 386387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-114178-1	MW-53_06102019	Total/NA	Water	8260B SIM	
240-114178-2	MW-54_06102019	Total/NA	Water	8260B SIM	
240-114178-3	MW-54S_06102019	Total/NA	Water	8260B SIM	
240-114178-4	TRIP BLANK	Total/NA	Water	8260B SIM	
MB 240-386387/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-386387/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-114181-B-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-114181-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

### Analysis Batch: 387516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-114178-2	MW-54_06102019	Total/NA	Water	8260B	
240-114178-3	MW-54S_06102019	Total/NA	Water	8260B	
240-114178-4	TRIP BLANK	Total/NA	Water	8260B	
MB 240-387516/6	Method Blank	Total/NA	Water	8260B	
LCS 240-387516/4	Lab Control Sample	Total/NA	Water	8260B	

### Analysis Batch: 387696

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-114178-1	MW-53_06102019	Total/NA	Water	8260B	
MB 240-387696/6	Method Blank	Total/NA	Water	8260B	
LCS 240-387696/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 240-387696/8	Lab Control Sample Dup	Total/NA	Water	8260B	
240-114181-G-3 MS	Matrix Spike	Total/NA	Water	8260B	
240-114181-L-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

# Lab Chronicle

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114178-1

**Client Sample ID: MW-53\_06102019**

**Lab Sample ID: 240-114178-1**

**Date Collected: 06/10/19 12:15**

**Matrix: Water**

**Date Received: 06/12/19 08:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	387696	06/22/19 17:13	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	386387	06/16/19 09:57	TJL2	TAL CAN

**Client Sample ID: MW-54\_06102019**

**Lab Sample ID: 240-114178-2**

**Date Collected: 06/10/19 13:50**

**Matrix: Water**

**Date Received: 06/12/19 08:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	387516	06/21/19 16:12	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	386387	06/16/19 10:22	TJL2	TAL CAN

**Client Sample ID: MW-54S\_06102019**

**Lab Sample ID: 240-114178-3**

**Date Collected: 06/10/19 15:20**

**Matrix: Water**

**Date Received: 06/12/19 08:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	387516	06/21/19 16:34	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	386387	06/16/19 10:47	TJL2	TAL CAN

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-114178-4**

**Date Collected: 06/10/19 00:00**

**Matrix: Water**

**Date Received: 06/12/19 08:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	387516	06/21/19 16:56	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	386387	06/16/19 11:12	TJL2	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 Livonia MI - E203728

Job ID: 240-114178-1

## Laboratory: Eurofins TestAmerica, Canton

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

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State		2927	02-23-20
California	State Program	9	2927	02-23-20
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19 *
Florida	NELAP		E87225	06-30-19
Illinois	NELAP	5	200004	07-31-19 *
Illinois	NELAP		004498	07-31-19
Iowa	State Program	7	421	06-01-21
Kansas	NELAP	7	E-10336	04-30-20
Kentucky (UST)	State Program	4	58	02-23-20
Kentucky (WW)	State Program	4	98016	12-31-19
Minnesota	NELAP	5	039-999-348	12-31-19 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19 *
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-19 *
New Jersey	NELAP		OH001	06-30-19
New York	NELAP	2	10975	03-31-20
New York	NELAP		10975	03-31-20
Ohio VAP	State Program	5	CL0024	06-05-21
Oregon	NELAP	10	4062	02-23-20
Oregon	NELAP		4062	02-23-20
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Pennsylvania	NELAP		68-00340	08-31-19
Texas	NELAP	6	T104704517-18-10	08-31-19 *
Texas	NELAP		T104704517-18-10	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19 *
Virginia	NELAP		010101	09-14-19
Washington	State		C971	01-12-20
Washington	State Program	10	C971	01-12-20 *
West Virginia DEP	State Program	3	210	12-31-19

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

<b>Client Information</b>		Lab PM: Michael Deimonico, Michael		Carrier Tracking No(s): 240-61361-26116.10	
Company: ARCADIS U.S. Inc		E-Mail: michael.deimonico@testamericainc.com		Page: 10 of 10	
Address: 28550 Cabot Drive Suite 500		Due Date Requested: 10 day / Standard		Job #:	
City: Novi		TAT Requested (days): 10 day / Standard		Preservation Codes:	
State, Zip: MI, 48377		PO #: 0004.0001B		A - HCL	
Phone: MI001454-0000-0000T		WO #: Cadena # E203634-72B		B - NaOH	
Email: Caitlin.O'Neill@arcadis.com		Project #: 24015353		C - Zn Acetate	
Project Name: Ford LTP Livonia MI - E203634 72B		SSOW#: LTP		D - Nitric Acid	
Site:		Sample Date		E - NaHSO4	
		Sample Time		F - MeOH	
		Sample Type (C=Comp, G=grab)		G - Amchlor	
		Matrix (W=water, S=solid, D=wastefl, BT=Tissue, A=Air)		H - Ascorbic Acid	
		Preservation Code		I - Ice	
				J - DI Water	
				K - EDTA	
				L - EDTA	
				Other:	
				Total Number of containers: 6	
				Special Instructions/Note:	
				8260B - VOCs (Short List)	
				8260B, 8260B SIM	
				Field Filtered Sample (Yes or No)	
				Perform MS/MSD (Yes or No)	
				240-114178 Chain of Custody	
				Barcode	
				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
				<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
				Special Instructions/OC Requirements:	
				Method of Shipment:	
				Received by: <i>Novi Cold Storage</i> Date/Time: 6/10/19 1700 Company: ARCADIS	
				Received by: <i>ARCADIS</i> Date/Time: 6-11-19 1018 Company: ETA	
				Relinquished by: <i>ETA</i> Date/Time: 6-11-19 1415 Company: ETA	
				Custody Seals Intact: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
				Custody Seal No.:	

Eurofins TestAmerica Canton Sample Receipt Form/Narrative

Login #: 114178

Canton Facility

Client Arcadis

Site Name: \_\_\_\_\_

Cooler unpacked by: [Signature]

Cooler Received on 6-12-19

Opened on 6-12-19

FedEx: 1<sup>st</sup>  Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time

Storage Location

TestAmerica Cooler # 77 Foam Box Client Cooler Box Other \_\_\_\_\_

Packing material used: Bubble Wrap Foam Plastic Bag None Other \_\_\_\_\_

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt  See Multiple Cooler Form //  
 IR GUN# IR-8 (CF +0.1 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C  
 IR GUN #36 (CF +0.6 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity each  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  No NA  
 -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  No
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?  
 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 NA pH Strip Lot# HC984738
13. Were VOAs on the COC?  Yes  No
14. Were air bubbles >6 mm in any VOA vials?  Yes  No NA  Larger than this.
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  No

Tests that are not checked for pH by Receiving:  
 VOAs  
 Oil and Grease  
 TOC

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other

Concerning \_\_\_\_\_

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: [Signature]

18. SAMPLE CONDITION

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)

19. SAMPLE PRESERVATION

Sample(s) \_\_\_\_\_ were further preserved in the laboratory.  
 Time preserved: \_\_\_\_\_ Preservative(s) added/Lot number(s): \_\_\_\_\_

VOA Sample Preservation - Date/Time VOAs Frozen: \_\_\_\_\_

Login # : \_\_\_\_\_

TestAmerica Canton Sample Receipt Multiple Cooler Form									
Cooler Description (Circle)				IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)		
<input checked="" type="radio"/> TA	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	<input checked="" type="radio"/> IR-B #36	3.8	3.9	<input checked="" type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
<input checked="" type="radio"/> TA	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	<input checked="" type="radio"/> IR-B #36	4.4	4.5	<input checked="" type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
<input checked="" type="radio"/> TA	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	<input checked="" type="radio"/> IR-B #36	2.4	2.5	<input checked="" type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	
TA	Client	Box	Other	IR-B #36			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
							<input type="radio"/> Water	<input type="radio"/> None	

See Temperature Excursion Form

# Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 240-114178-1

**Login Number: 114178**

**List Source: Eurofins TestAmerica, Canton**

**List Number: 1**

**Creator: Ritter, Jason**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.		
The cooler's custody seal, if present, is intact.		
Sample custody seals, if present, are intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the containers received and the COC.		
Samples are received within Holding Time (excluding tests with immediate HTs)		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified.		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Residual Chlorine Checked.		