

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-130975-1  
Client Project/Site: Ford LTP On-Site

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

Attn: Kristoffer Hinskey



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Authorized for release by:  
6/12/2020 9:27:55 AM

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

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



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# Definitions/Glossary

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

Job ID: 240-130975-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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.
X	Surrogate recovery exceeds control limits

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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)
MQL	Method Quantitation Limit
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: 240-130975-1

**Job ID: 240-130975-1**

**Laboratory: Eurofins TestAmerica, Canton**

**Narrative**

## CASE NARRATIVE

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

**Project: Ford LTP On-Site**

**Report Number: 240-130975-1**

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 5/29/2020 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8° C.

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

Samples TRIP BLANK (240-130975-1), PW-16-02\_052720 (240-130975-2), PW-16-01\_052720 (240-130975-3), MW-23\_052720 (240-130975-4) and DUP-02 (240-130975-5) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/05/2020 and 06/06/2020.

Samples PW-16-01\_052720 (240-130975-3)[13.33X], MW-23\_052720 (240-130975-4)[333.33X] and DUP-02 (240-130975-5)[500X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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 PW-16-02\_052720 (240-130975-2), PW-16-01\_052720 (240-130975-3), MW-23\_052720 (240-130975-4) and DUP-02 (240-130975-5) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 06/09/2020.

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

# Method Summary

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

Job ID: 240-130975-1

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 On-Site

Job ID: 240-130975-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-130975-1	TRIP BLANK	Water	05/27/20 00:00	05/29/20 10:30	
240-130975-2	PW-16-02_052720	Water	05/27/20 09:48	05/29/20 10:30	
240-130975-3	PW-16-01_052720	Water	05/27/20 11:00	05/29/20 10:30	
240-130975-4	MW-23_052720	Water	05/27/20 12:48	05/29/20 10:30	
240-130975-5	DUP-02	Water	05/27/20 00:00	05/29/20 10:30	

- 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: 240-130975-1

## Client Sample ID: TRIP BLANK

Lab Sample ID: 240-130975-1

No Detections.

## Client Sample ID: PW-16-02\_052720

Lab Sample ID: 240-130975-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.21	J	1.0	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	0.54	J	1.0	0.20	ug/L	1		8260B	Total/NA

## Client Sample ID: PW-16-01\_052720

Lab Sample ID: 240-130975-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.3		1.0	0.16	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.39	J	1.0	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	360		13	2.7	ug/L	13.33		8260B	Total/NA

## Client Sample ID: MW-23\_052720

Lab Sample ID: 240-130975-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9800		330	53	ug/L	333.33		8260B	Total/NA
trans-1,2-Dichloroethene	430		330	63	ug/L	333.33		8260B	Total/NA
Trichloroethene	1300		330	33	ug/L	333.33		8260B	Total/NA
Vinyl chloride	550		330	67	ug/L	333.33		8260B	Total/NA

## Client Sample ID: DUP-02

Lab Sample ID: 240-130975-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9900		500	80	ug/L	500		8260B	Total/NA
trans-1,2-Dichloroethene	430	J	500	95	ug/L	500		8260B	Total/NA
Trichloroethene	1500		500	50	ug/L	500		8260B	Total/NA
Vinyl chloride	1000		500	100	ug/L	500		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: 240-130975-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-130975-1**

**Date Collected: 05/27/20 00:00**

**Matrix: Water**

**Date Received: 05/29/20 10:30**

**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			06/05/20 18:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/05/20 18:44	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/05/20 18:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/05/20 18:44	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/05/20 18:44	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/05/20 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 130		06/05/20 18:44	1
4-Bromofluorobenzene (Surr)	98		47 - 134		06/05/20 18:44	1
Toluene-d8 (Surr)	92		69 - 122		06/05/20 18:44	1
Dibromofluoromethane (Surr)	95		78 - 129		06/05/20 18:44	1



# Client Sample Results

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

Job ID: 240-130975-1

**Client Sample ID: PW-16-02\_052720**

**Lab Sample ID: 240-130975-2**

Date Collected: 05/27/20 09:48

Matrix: Water

Date Received: 05/29/20 10:30

**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			06/09/20 09:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 133		06/09/20 09:19	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			06/05/20 19:10	1
<b>cis-1,2-Dichloroethene</b>	<b>0.21</b>	<b>J</b>	1.0	0.16	ug/L			06/05/20 19:10	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/05/20 19:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/05/20 19:10	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/05/20 19:10	1
<b>Vinyl chloride</b>	<b>0.54</b>	<b>J</b>	1.0	0.20	ug/L			06/05/20 19:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 130		06/05/20 19:10	1
4-Bromofluorobenzene (Surr)	101		47 - 134		06/05/20 19:10	1
Toluene-d8 (Surr)	95		69 - 122		06/05/20 19:10	1
Dibromofluoromethane (Surr)	96		78 - 129		06/05/20 19:10	1

# Client Sample Results

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

Job ID: 240-130975-1

**Client Sample ID: PW-16-01\_052720**

**Lab Sample ID: 240-130975-3**

Date Collected: 05/27/20 11:00

Matrix: Water

Date Received: 05/29/20 10:30

**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	-		06/09/20 09:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 133		06/09/20 09:44	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	-		06/05/20 19:35	1
<b>cis-1,2-Dichloroethene</b>	<b>6.3</b>		1.0	0.16	ug/L			06/05/20 19:35	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/05/20 19:35	1
<b>trans-1,2-Dichloroethene</b>	<b>0.39</b>	<b>J</b>	1.0	0.19	ug/L			06/05/20 19:35	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/05/20 19:35	1
<b>Vinyl chloride</b>	<b>360</b>		13	2.7	ug/L			06/06/20 15:20	13.33

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		75 - 130		06/05/20 19:35	1
1,2-Dichloroethane-d4 (Surr)	100		75 - 130		06/06/20 15:20	13.33
4-Bromofluorobenzene (Surr)	101		47 - 134		06/05/20 19:35	1
4-Bromofluorobenzene (Surr)	105		47 - 134		06/06/20 15:20	13.33
Toluene-d8 (Surr)	94		69 - 122		06/05/20 19:35	1
Toluene-d8 (Surr)	93		69 - 122		06/06/20 15:20	13.33
Dibromofluoromethane (Surr)	96		78 - 129		06/05/20 19:35	1
Dibromofluoromethane (Surr)	98		78 - 129		06/06/20 15:20	13.33

# Client Sample Results

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

Job ID: 240-130975-1

**Client Sample ID: MW-23\_052720**

**Lab Sample ID: 240-130975-4**

Date Collected: 05/27/20 12:48

Matrix: Water

Date Received: 05/29/20 10:30

**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	-		06/09/20 10:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 133		06/09/20 10:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	330	U	330	63	ug/L	-		06/06/20 15:45	333.33
<b>cis-1,2-Dichloroethene</b>	<b>9800</b>		330	53	ug/L			06/06/20 15:45	333.33
Tetrachloroethene	330	U	330	50	ug/L			06/06/20 15:45	333.33
<b>trans-1,2-Dichloroethene</b>	<b>430</b>		330	63	ug/L			06/06/20 15:45	333.33
<b>Trichloroethene</b>	<b>1300</b>		330	33	ug/L			06/06/20 15:45	333.33
<b>Vinyl chloride</b>	<b>550</b>		330	67	ug/L			06/06/20 15:45	333.33

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 130		06/06/20 15:45	333.33
4-Bromofluorobenzene (Surr)	105		47 - 134		06/06/20 15:45	333.33
Toluene-d8 (Surr)	94		69 - 122		06/06/20 15:45	333.33
Dibromofluoromethane (Surr)	102		78 - 129		06/06/20 15:45	333.33

# Client Sample Results

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

Job ID: 240-130975-1

**Client Sample ID: DUP-02**

**Lab Sample ID: 240-130975-5**

**Date Collected: 05/27/20 00:00**

**Matrix: Water**

**Date Received: 05/29/20 10:30**

**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	-		06/09/20 10:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 133		06/09/20 10:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	500	U	500	95	ug/L	-		06/05/20 20:25	500
<b>cis-1,2-Dichloroethene</b>	<b>9900</b>		500	80	ug/L			06/05/20 20:25	500
Tetrachloroethene	500	U	500	75	ug/L			06/05/20 20:25	500
<b>trans-1,2-Dichloroethene</b>	<b>430</b>	<b>J</b>	500	95	ug/L			06/05/20 20:25	500
<b>Trichloroethene</b>	<b>1500</b>		500	50	ug/L			06/05/20 20:25	500
<b>Vinyl chloride</b>	<b>1000</b>		500	100	ug/L			06/05/20 20:25	500

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 130		06/05/20 20:25	500
4-Bromofluorobenzene (Surr)	106		47 - 134		06/05/20 20:25	500
Toluene-d8 (Surr)	94		69 - 122		06/05/20 20:25	500
Dibromofluoromethane (Surr)	97		78 - 129		06/05/20 20:25	500

# Surrogate Summary

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

Job ID: 240-130975-1

## 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 (75-130)	BFB (47-134)	TOL (69-122)	DBFM (78-129)
240-130975-1	TRIP BLANK	99	98	92	95
240-130975-2	PW-16-02_052720	99	101	95	96
240-130975-3	PW-16-01_052720	91	101	94	96
240-130975-3	PW-16-01_052720	100	105	93	98
240-130975-4	MW-23_052720	100	105	94	102
240-130975-5	DUP-02	103	106	94	97
240-131159-D-6 MS	Matrix Spike	96	104	93	98
240-131159-E-6 MSD	Matrix Spike Duplicate	96	101	89	97
240-131287-A-1 MSD	Matrix Spike Duplicate	101	110	94	100
240-131287-C-1 MS	Matrix Spike	96	111	89	96
LCS 240-437098/4	Lab Control Sample	97	107	92	96
LCS 240-437174/4	Lab Control Sample	100	105	93	98
MB 240-437098/7	Method Blank	104	102	90	96
MB 240-437174/7	Method Blank	94	100	88	95

#### 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)
240-130975-2	PW-16-02_052720	96
240-130975-3	PW-16-01_052720	101
240-130975-4	MW-23_052720	99
240-130975-5	DUP-02	102
240-130976-C-5 MS	Matrix Spike	101
240-130976-C-5 MSD	Matrix Spike Duplicate	189 X
LCS 240-437419/4	Lab Control Sample	94
MB 240-437419/5	Method Blank	95

#### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-130975-1

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

**Lab Sample ID: MB 240-437098/7**  
**Matrix: Water**  
**Analysis Batch: 437098**

**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			06/05/20 15:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/05/20 15:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/05/20 15:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/05/20 15:25	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/05/20 15:25	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/05/20 15:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 130		06/05/20 15:25	1
4-Bromofluorobenzene (Surr)	102		47 - 134		06/05/20 15:25	1
Toluene-d8 (Surr)	90		69 - 122		06/05/20 15:25	1
Dibromofluoromethane (Surr)	96		78 - 129		06/05/20 15:25	1

**Lab Sample ID: LCS 240-437098/4**  
**Matrix: Water**  
**Analysis Batch: 437098**

**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	10.4		ug/L		104	73 - 129
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	75 - 124
Tetrachloroethene	10.0	11.2		ug/L		112	70 - 125
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	74 - 130
Trichloroethene	10.0	9.47		ug/L		95	71 - 121
Vinyl chloride	10.0	13.0		ug/L		130	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		75 - 130
4-Bromofluorobenzene (Surr)	107		47 - 134
Toluene-d8 (Surr)	92		69 - 122
Dibromofluoromethane (Surr)	96		78 - 129

**Lab Sample ID: 240-131287-A-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 437098**

**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	10.8		ug/L		108	64 - 132	1	35
cis-1,2-Dichloroethene	1.0	U	10.0	10.1		ug/L		101	68 - 121	9	35
Tetrachloroethene	1.0	U	10.0	10.5		ug/L		105	52 - 129	4	35
trans-1,2-Dichloroethene	1.0	U	10.0	10.2		ug/L		102	69 - 126	3	35
Trichloroethene	1.0	U	10.0	9.11		ug/L		91	56 - 124	6	35
Vinyl chloride	1.0	U F1	10.0	14.9	F1	ug/L		149	49 - 136	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		75 - 130
4-Bromofluorobenzene (Surr)	110		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: 240-130975-1

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

**Lab Sample ID: 240-131287-A-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 437098**

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	100		78 - 129

**Lab Sample ID: 240-131287-C-1 MS**  
**Matrix: Water**  
**Analysis Batch: 437098**

**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	10.8		ug/L		108	64 - 132
cis-1,2-Dichloroethene	1.0	U	10.0	11.0		ug/L		110	68 - 121
Tetrachloroethene	1.0	U	10.0	10.1		ug/L		101	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	10.4		ug/L		104	69 - 126
Trichloroethene	1.0	U	10.0	9.69		ug/L		97	56 - 124
Vinyl chloride	1.0	U F1	10.0	14.7	F1	ug/L		147	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		75 - 130
4-Bromofluorobenzene (Surr)	111		47 - 134
Toluene-d8 (Surr)	89		69 - 122
Dibromofluoromethane (Surr)	96		78 - 129

**Lab Sample ID: MB 240-437174/7**  
**Matrix: Water**  
**Analysis Batch: 437174**

**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			06/06/20 14:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/06/20 14:04	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/06/20 14:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/06/20 14:04	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/06/20 14:04	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/06/20 14:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		75 - 130		06/06/20 14:04	1
4-Bromofluorobenzene (Surr)	100		47 - 134		06/06/20 14:04	1
Toluene-d8 (Surr)	88		69 - 122		06/06/20 14:04	1
Dibromofluoromethane (Surr)	95		78 - 129		06/06/20 14:04	1

**Lab Sample ID: LCS 240-437174/4**  
**Matrix: Water**  
**Analysis Batch: 437174**

**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	10.5		ug/L		105	73 - 129
cis-1,2-Dichloroethene	10.0	10.6		ug/L		106	75 - 124
Tetrachloroethene	10.0	10.7		ug/L		107	70 - 125
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	74 - 130
Trichloroethene	10.0	9.78		ug/L		98	71 - 121

Eurofins TestAmerica, Canton

# QC Sample Results

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

Job ID: 240-130975-1

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

**Lab Sample ID: LCS 240-437174/4**  
**Matrix: Water**  
**Analysis Batch: 437174**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	10.0	13.0		ug/L		130	61 - 134
<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
1,2-Dichloroethane-d4 (Surr)	100		75 - 130				
4-Bromofluorobenzene (Surr)	105		47 - 134				
Toluene-d8 (Surr)	93		69 - 122				
Dibromofluoromethane (Surr)	98		78 - 129				

**Lab Sample ID: 240-131159-D-6 MS**  
**Matrix: Water**  
**Analysis Batch: 437174**

**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
cis-1,2-Dichloroethene	0.34	J	10.0	10.6		ug/L		102	68 - 121
trans-1,2-Dichloroethene	1.0	U	10.0	10.5		ug/L		105	69 - 126
Trichloroethene	1.0	U	10.0	9.33		ug/L		93	56 - 124
Vinyl chloride	3.6	F1	10.0	18.1	F1	ug/L		145	49 - 136
<b>Surrogate</b>	<b>MS %Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
1,2-Dichloroethane-d4 (Surr)	96		75 - 130						
4-Bromofluorobenzene (Surr)	104		47 - 134						
Toluene-d8 (Surr)	93		69 - 122						
Dibromofluoromethane (Surr)	98		78 - 129						

**Lab Sample ID: 240-131159-E-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 437174**

**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
cis-1,2-Dichloroethene	0.34	J	10.0	10.5		ug/L		101	68 - 121	1	35
trans-1,2-Dichloroethene	1.0	U	10.0	9.52		ug/L		95	69 - 126	10	35
Trichloroethene	1.0	U	10.0	8.77		ug/L		88	56 - 124	6	35
Vinyl chloride	3.6	F1	10.0	17.5	F1	ug/L		139	49 - 136	3	35
<b>Surrogate</b>	<b>MSD %Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
1,2-Dichloroethane-d4 (Surr)	96		75 - 130								
4-Bromofluorobenzene (Surr)	101		47 - 134								
Toluene-d8 (Surr)	89		69 - 122								
Dibromofluoromethane (Surr)	97		78 - 129								

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

**Lab Sample ID: MB 240-437419/5**  
**Matrix: Water**  
**Analysis Batch: 437419**

**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	2.0	U	2.0	0.86	ug/L			06/09/20 06:44	1

Eurofins TestAmerica, Canton



# QC Sample Results

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

Job ID: 240-130975-1

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

**Lab Sample ID: MB 240-437419/5**  
**Matrix: Water**  
**Analysis Batch: 437419**

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	95		70 - 133		06/09/20 06:44	1

**Lab Sample ID: LCS 240-437419/4**  
**Matrix: Water**  
**Analysis Batch: 437419**

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

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

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	94		70 - 133

**Lab Sample ID: 240-130976-C-5 MS**  
**Matrix: Water**  
**Analysis Batch: 437419**

**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

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		70 - 133

**Lab Sample ID: 240-130976-C-5 MSD**  
**Matrix: Water**  
**Analysis Batch: 437419**

**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	Limit

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	189	X	70 - 133

# QC Association Summary

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

Job ID: 240-130975-1

## GC/MS VOA

### Analysis Batch: 437098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-130975-1	TRIP BLANK	Total/NA	Water	8260B	
240-130975-2	PW-16-02_052720	Total/NA	Water	8260B	
240-130975-3	PW-16-01_052720	Total/NA	Water	8260B	
240-130975-5	DUP-02	Total/NA	Water	8260B	
MB 240-437098/7	Method Blank	Total/NA	Water	8260B	
LCS 240-437098/4	Lab Control Sample	Total/NA	Water	8260B	
240-131287-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
240-131287-C-1 MS	Matrix Spike	Total/NA	Water	8260B	

### Analysis Batch: 437174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-130975-3	PW-16-01_052720	Total/NA	Water	8260B	
240-130975-4	MW-23_052720	Total/NA	Water	8260B	
MB 240-437174/7	Method Blank	Total/NA	Water	8260B	
LCS 240-437174/4	Lab Control Sample	Total/NA	Water	8260B	
240-131159-D-6 MS	Matrix Spike	Total/NA	Water	8260B	
240-131159-E-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

### Analysis Batch: 437419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-130975-2	PW-16-02_052720	Total/NA	Water	8260B SIM	
240-130975-3	PW-16-01_052720	Total/NA	Water	8260B SIM	
240-130975-4	MW-23_052720	Total/NA	Water	8260B SIM	
240-130975-5	DUP-02	Total/NA	Water	8260B SIM	
MB 240-437419/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-437419/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-130976-C-5 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-130976-C-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

# Lab Chronicle

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

Job ID: 240-130975-1

## Client Sample ID: TRIP BLANK

Date Collected: 05/27/20 00:00

Date Received: 05/29/20 10:30

## Lab Sample ID: 240-130975-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	437098	06/05/20 18:44	LRW	TAL CAN

## Client Sample ID: PW-16-02\_052720

Date Collected: 05/27/20 09:48

Date Received: 05/29/20 10:30

## Lab Sample ID: 240-130975-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	437098	06/05/20 19:10	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	437419	06/09/20 09:19	SAM	TAL CAN

## Client Sample ID: PW-16-01\_052720

Date Collected: 05/27/20 11:00

Date Received: 05/29/20 10:30

## Lab Sample ID: 240-130975-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	437098	06/05/20 19:35	LRW	TAL CAN
Total/NA	Analysis	8260B		13.33	437174	06/06/20 15:20	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	437419	06/09/20 09:44	SAM	TAL CAN

## Client Sample ID: MW-23\_052720

Date Collected: 05/27/20 12:48

Date Received: 05/29/20 10:30

## Lab Sample ID: 240-130975-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		333.33	437174	06/06/20 15:45	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	437419	06/09/20 10:09	SAM	TAL CAN

## Client Sample ID: DUP-02

Date Collected: 05/27/20 00:00

Date Received: 05/29/20 10:30

## Lab Sample ID: 240-130975-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		500	437098	06/05/20 20:25	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	437419	06/09/20 10:35	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: 240-130975-1

## 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	02-23-21
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-20
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-20
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
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	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-18-10	08-31-20
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-20
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

MICHIGAN 3.1/3.8  
190

Chain of Custody Record

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

Regulatory program:  DW  NPDES  RCRA  Other

Client Contact: Arcadis  
Address: 28550 Cabot Drive, Suite 500  
City/State/Zip: Novi, MI, 48377  
Phone: 248-994-2240  
Project Name: Ford LTP On-Site  
Project Number: 30050315-401.03  
PO # 30050315-401.03

Client Project Manager: Kris Hinskey  
Telephone: 248-994-2240  
Email: kris@hinskey.com

Site Contact: John McClafferty  
Telephone: 330-497-9396

Lab Contact: Mike DelMonico  
Telephone: 330-497-9396

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

Project Name: Ford LTP On-Site  
Project Number: 30050315-401.03  
PO # 30050315-401.03

Sampler Name: XENIA CHAN  
Method of Shipment/Carrier:  
Shipping/Tracking No.:

Sample Identification	Sample Date	Sample Time	Matrix				Filtered Sample (Y/N)	Composite (C/Grab)	Analyses						Sample Specific Notes / Special Instructions:						
			Air	Aqueous	Sediment	Solid			Other:	MSO4	HNO3	HCl	NaOH	Zn/Cd/NaOH		Other:	1,1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B
TRIP BLANK	-	-	1																		1 TRIP BLANK
PW-16-02-052720	5/27/20	948	6																		3 VOAS for 8260B 3 VOAS for 8260B SIM
PW-16-01-052720	5/27/20	1100	6																		
MW-23-052720	5/27/20	1248	6																		
DUP-02	5/27/20	-	6																		

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: *[Signature]* Date/Time: 5/27/20 1330 Company: ARCADIS  
 Relinquished by: *[Signature]* Date/Time: 5/27/20 1830 Company: ARCADIS  
 Relinquished by: *[Signature]* Date/Time: 5/28/20 0857 Company: ARCADIS

Received by: *[Signature]* Date/Time: 5/27/20 1330 Company: ARCADIS  
 Received by: *[Signature]* Date/Time: 5/27/20 1830 Company: ARCADIS  
 Received in Laboratory by: *[Signature]* Date/Time: 5-28-20 0857 Company: ETX

LTA 5-28-20 0857  
ETA 5-29-20 1030

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Eurofins TestAmerica Canton Sample Receipt Form/Narrative

Login # : 130975

Canton Facility

Client Arcadis Site Name \_\_\_\_\_


Cooler unpacked by: [Signature]

Cooler Received on 5-29-20 Opened on 5-29-20

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

Receipt After-hours: Drop-off Date/Time \_\_\_\_\_ Storage Location \_\_\_\_\_

TestAmerica Cooler # NA 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-10 (CF +0.7 °C) Observed Cooler Temp. 3.1 °C Corrected Cooler Temp. 3.8 °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 7 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  
-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? Yes No  
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# HC902937
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials?  Larger than this. NA Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # NA 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: MS

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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: \_\_\_\_\_