

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-159631-1  
Client Project/Site: Ford LTP - Off-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:  
11/23/2021 10:31:05 AM

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

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*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 . . . . .	5
Sample Summary . . . . .	6
Detection Summary . . . . .	7
Client Sample Results . . . . .	8
Surrogate Summary . . . . .	10
QC Sample Results . . . . .	11
QC Association Summary . . . . .	14
Lab Chronicle . . . . .	15
Certification Summary . . . . .	16
Chain of Custody . . . . .	17

# Definitions/Glossary

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

Job ID: 240-159631-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
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.
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
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

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

Job ID: 240-159631-1

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## Job ID: 240-159631-1

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Laboratory: Eurofins TestAmerica, Canton

### Narrative

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Job Narrative  
240-159631-1

### Comments

No additional comments.

### Receipt

The samples were received on 11/9/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.7° C and 3.8° C.

### GC/MS VOA

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

### VOA Prep

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

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# Method Summary

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

Job ID: 240-159631-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	Purge and Trap	SW846	TAL CAN

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

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

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# Sample Summary

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

Job ID: 240-159631-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-159631-1	TRIP BLANK_57	Water	11/05/21 00:00	11/09/21 10:00
240-159631-2	MW-135S_110521	Water	11/05/21 11:00	11/09/21 10:00

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# Detection Summary

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

Job ID: 240-159631-1

**Client Sample ID: TRIP BLANK\_57**

**Lab Sample ID: 240-159631-1**

No Detections.

**Client Sample ID: MW-135S\_110521**

**Lab Sample ID: 240-159631-2**

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

# Client Sample Results

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

Job ID: 240-159631-1

**Client Sample ID: TRIP BLANK\_57**

**Lab Sample ID: 240-159631-1**

**Date Collected: 11/05/21 00:00**

**Matrix: Water**

**Date Received: 11/09/21 10:00**

**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	0.49	ug/L			11/16/21 20:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/21 20:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 20:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/21 20:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 20:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/21 20:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137		11/16/21 20:56	1
4-Bromofluorobenzene (Surr)	82		56 - 136		11/16/21 20:56	1
Toluene-d8 (Surr)	89		78 - 122		11/16/21 20:56	1
Dibromofluoromethane (Surr)	101		73 - 120		11/16/21 20:56	1



# Client Sample Results

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

Job ID: 240-159631-1

**Client Sample ID: MW-135S\_110521**

**Lab Sample ID: 240-159631-2**

**Date Collected: 11/05/21 11:00**

**Matrix: Water**

**Date Received: 11/09/21 10:00**

**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			11/17/21 00:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		66 - 120					11/17/21 00:35	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	0.49	ug/L			11/16/21 22:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/21 22:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 22:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/21 22:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 22:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/21 22:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137					11/16/21 22:12	1
4-Bromofluorobenzene (Surr)	81		56 - 136					11/16/21 22:12	1
Toluene-d8 (Surr)	90		78 - 122					11/16/21 22:12	1
Dibromofluoromethane (Surr)	101		73 - 120					11/16/21 22:12	1

# Surrogate Summary

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

Job ID: 240-159631-1

## 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	BFB	TOL	DBFM
		(62-137)	(56-136)	(78-122)	(73-120)
240-159556-A-21 MS	Matrix Spike	88	90	93	97
240-159556-A-21 MSD	Matrix Spike Duplicate	86	90	92	94
240-159631-1	TRIP BLANK_57	94	82	89	101
240-159631-2	MW-135S_110521	96	81	90	101
LCS 240-513207/5	Lab Control Sample	86	91	94	94
MB 240-513207/8	Method Blank	94	85	91	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
		(66-120)
240-159546-G-2 MS	Matrix Spike	82
240-159546-M-2 MSD	Matrix Spike Duplicate	85
240-159631-2	MW-135S_110521	83
LCS 240-513286/4	Lab Control Sample	82
MB 240-513286/5	Method Blank	85

#### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-159631-1

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

**Lab Sample ID: MB 240-513207/8**  
**Matrix: Water**  
**Analysis Batch: 513207**

**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	0.49	ug/L			11/16/21 14:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/21 14:40	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 14:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/21 14:40	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 14:40	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/21 14:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137		11/16/21 14:40	1
4-Bromofluorobenzene (Surr)	85		56 - 136		11/16/21 14:40	1
Toluene-d8 (Surr)	91		78 - 122		11/16/21 14:40	1
Dibromofluoromethane (Surr)	102		73 - 120		11/16/21 14:40	1

**Lab Sample ID: LCS 240-513207/5**  
**Matrix: Water**  
**Analysis Batch: 513207**

**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	25.0	26.9		ug/L		107	63 - 134
cis-1,2-Dichloroethene	25.0	24.4		ug/L		98	77 - 123
Tetrachloroethene	25.0	27.1		ug/L		108	76 - 123
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	75 - 124
Trichloroethene	25.0	26.3		ug/L		105	70 - 122
Vinyl chloride	25.0	20.2		ug/L		81	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		62 - 137
4-Bromofluorobenzene (Surr)	91		56 - 136
Toluene-d8 (Surr)	94		78 - 122
Dibromofluoromethane (Surr)	94		73 - 120

**Lab Sample ID: 240-159556-A-21 MS**  
**Matrix: Water**  
**Analysis Batch: 513207**

**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	100	U	2500	2520		ug/L		101	56 - 135
cis-1,2-Dichloroethene	100	U	2500	2460		ug/L		98	66 - 128
Tetrachloroethene	3100		2500	5610		ug/L		100	62 - 131
trans-1,2-Dichloroethene	100	U	2500	2480		ug/L		99	56 - 136
Trichloroethene	83	J	2500	2530		ug/L		98	61 - 124
Vinyl chloride	100	U	2500	1980		ug/L		79	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		62 - 137
4-Bromofluorobenzene (Surr)	90		56 - 136
Toluene-d8 (Surr)	93		78 - 122

# QC Sample Results

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

Job ID: 240-159631-1

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

**Lab Sample ID: 240-159556-A-21 MS**  
**Matrix: Water**  
**Analysis Batch: 513207**

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	97		73 - 120

**Lab Sample ID: 240-159556-A-21 MSD**  
**Matrix: Water**  
**Analysis Batch: 513207**

**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	100	U	2500	2510		ug/L		100	56 - 135	0	26
cis-1,2-Dichloroethene	100	U	2500	2470		ug/L		99	66 - 128	1	14
Tetrachloroethene	3100		2500	5590		ug/L		99	62 - 131	0	20
trans-1,2-Dichloroethene	100	U	2500	2480		ug/L		99	56 - 136	0	15
Trichloroethene	83	J	2500	2610		ug/L		101	61 - 124	3	15
Vinyl chloride	100	U	2500	1920		ug/L		77	43 - 157	3	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		62 - 137
4-Bromofluorobenzene (Surr)	90		56 - 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	94		73 - 120

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

**Lab Sample ID: MB 240-513286/5**  
**Matrix: Water**  
**Analysis Batch: 513286**

**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			11/16/21 19:44	1

  

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	85		66 - 120		11/16/21 19:44	1

**Lab Sample ID: LCS 240-513286/4**  
**Matrix: Water**  
**Analysis Batch: 513286**

**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	9.78		ug/L		98	80 - 122

  

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		66 - 120

**Lab Sample ID: 240-159546-G-2 MS**  
**Matrix: Water**  
**Analysis Batch: 513286**

**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 F1	10.0	11.0		ug/L		110	51 - 153

Eurofins TestAmerica, Canton

# QC Sample Results

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

Job ID: 240-159631-1

## 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)	82		66 - 120

**Lab Sample ID: 240-159546-M-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 513286**

**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 F1	10.0	9.83		ug/L		98	51 - 153	11	16

<i>Surrogate</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	85		66 - 120

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# QC Association Summary

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

Job ID: 240-159631-1

## GC/MS VOA

### Analysis Batch: 513207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159631-1	TRIP BLANK_57	Total/NA	Water	8260B	
240-159631-2	MW-135S_110521	Total/NA	Water	8260B	
MB 240-513207/8	Method Blank	Total/NA	Water	8260B	
LCS 240-513207/5	Lab Control Sample	Total/NA	Water	8260B	
240-159556-A-21 MS	Matrix Spike	Total/NA	Water	8260B	
240-159556-A-21 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

### Analysis Batch: 513286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159631-2	MW-135S_110521	Total/NA	Water	8260B SIM	
MB 240-513286/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-513286/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-159546-G-2 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-159546-M-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

# Lab Chronicle

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

Job ID: 240-159631-1

**Client Sample ID: TRIP BLANK\_57**

**Lab Sample ID: 240-159631-1**

**Date Collected: 11/05/21 00:00**

**Matrix: Water**

**Date Received: 11/09/21 10:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513207	11/16/21 20:56	SAM	TAL CAN

**Client Sample ID: MW-135S\_110521**

**Lab Sample ID: 240-159631-2**

**Date Collected: 11/05/21 11:00**

**Matrix: Water**

**Date Received: 11/09/21 10:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513207	11/16/21 22:12	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	513286	11/17/21 00:35	CS	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 - Off-Site

Job ID: 240-159631-1

## 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	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-22
Iowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-22
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-18-10	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21





**Eurofins TestAmerica Canton Sample Receipt Form/Narrative**

Login # : 159631

**Canton Facility**

Client ARCADIS Site Name \_\_\_\_\_  
 Cooler Received on 11-9-21 Opened on 11-9-21  
 FedEx: 1<sup>st</sup> Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other \_\_\_\_\_

Cooler unpacked by: Nancy Page

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

TestAmerica Cooler # 1A 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-14 (CF +0.1 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C  
 IR GUN #IR-15 (CF +0.2°C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 2  
 -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 (ID/Date/Time) be reconciled with the COC? Yes No  
 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No

10. Were correct bottle(s) used for the test(s) indicated? Yes No  
 11. Sufficient quantity received to perform indicated analyses? Yes No  
 12. Are these work share samples and all listed on the COC? Yes No

If yes, Questions 13-17 have been checked at the originating laboratory.  
 13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC157842  
 14. Were VOAs on the COC? Yes No NA

15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA  
 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 60358 Yes No  
 17. Was a LL Hg or Me Hg trip blank present? Yes No

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

Concerning \_\_\_\_\_

**18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES**  additional next page

Samples processed by: \_\_\_\_\_

The TB is not logged for SIM due to insufficient volume, per corrected COC. ~~one~~ 11/11/21 ~~one~~ 11/9/21

**19. 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)

**20. 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: \_\_\_\_\_

