

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-144516-1  
Client Project/Site: Ford LTP - Off Site

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

Attn: Kristoffer Hinskey



---

Authorized for release by:  
2/24/2021 11:49:30 AM

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

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*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: 240-144516-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
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: 240-144516-1

---

## Job ID: 240-144516-1

---

Laboratory: Eurofins TestAmerica, Canton

### Narrative

---

Job Narrative  
240-144516-1

### Comments

No additional comments.

### Receipt

The samples were received on 2/13/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.6° 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.

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

# Method Summary

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

Job ID: 240-144516-1

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

**Protocol References:**

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

**Laboratory References:**

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



# Sample Summary

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

Job ID: 240-144516-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-144516-1	TRIP BLANK	Water	02/11/21 00:00	02/13/21 08:00	
240-144516-2	MW-106S_021121	Water	02/11/21 10:20	02/13/21 08:00	

- 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 - Off Site

Job ID: 240-144516-1

---

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-144516-1**

No Detections.

---

**Client Sample ID: MW-106S\_021121**

**Lab Sample ID: 240-144516-2**

No Detections.

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

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: 240-144516-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-144516-1**

**Date Collected: 02/11/21 00:00**

**Matrix: Water**

**Date Received: 02/13/21 08:00**

**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	0.19	ug/L			02/22/21 17:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/22/21 17:48	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/22/21 17:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/22/21 17:48	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/22/21 17:48	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/22/21 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 130		02/22/21 17:48	1
4-Bromofluorobenzene (Surr)	106		47 - 134		02/22/21 17:48	1
Toluene-d8 (Surr)	101		69 - 122		02/22/21 17:48	1
Dibromofluoromethane (Surr)	89		78 - 129		02/22/21 17:48	1



# Client Sample Results

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

Job ID: 240-144516-1

**Client Sample ID: MW-106S\_021121**

**Lab Sample ID: 240-144516-2**

**Date Collected: 02/11/21 10:20**

**Matrix: Water**

**Date Received: 02/13/21 08:00**

**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			02/19/21 19:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		70 - 133		02/19/21 19:35	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	0.19	ug/L			02/22/21 18:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/22/21 18:10	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/22/21 18:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/22/21 18:10	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/22/21 18:10	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/22/21 18:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 130		02/22/21 18:10	1
4-Bromofluorobenzene (Surr)	114		47 - 134		02/22/21 18:10	1
Toluene-d8 (Surr)	109		69 - 122		02/22/21 18:10	1
Dibromofluoromethane (Surr)	100		78 - 129		02/22/21 18:10	1

# Surrogate Summary

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

Job ID: 240-144516-1

## 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)
240-144516-1	TRIP BLANK	99	106	101	89
240-144516-2	MW-106S_021121	108	114	109	100
240-144516-2 MS	MW-106S-MS_021121	119	134	126 S1+	117
240-144516-2 MSD	MW-106S-MSD_021121	99	113	102	94
LCS 240-473923/5	Lab Control Sample	105	118	109	99
MB 240-473923/8	Method Blank	103	112	106	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)
240-144516-2	MW-106S_021121	79
240-144516-2 MS	MW-106S-MS_021121	78
240-144516-2 MSD	MW-106S-MSD_021121	81
LCS 240-473720/4	Lab Control Sample	82
MB 240-473720/5	Method Blank	81

### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-144516-1

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

**Lab Sample ID: MB 240-473923/8**  
**Matrix: Water**  
**Analysis Batch: 473923**

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/22/21 11:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/22/21 11:12	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/22/21 11:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/22/21 11:12	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/22/21 11:12	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/22/21 11:12	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	103		75 - 130		02/22/21 11:12	1
4-Bromofluorobenzene (Surr)	112		47 - 134		02/22/21 11:12	1
Toluene-d8 (Surr)	106		69 - 122		02/22/21 11:12	1
Dibromofluoromethane (Surr)	95		78 - 129		02/22/21 11:12	1

**Lab Sample ID: LCS 240-473923/5**  
**Matrix: Water**  
**Analysis Batch: 473923**

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1-Dichloroethene	20.0	18.8		ug/L		94	73 - 129
cis-1,2-Dichloroethene	20.0	17.6		ug/L		88	75 - 124
Tetrachloroethene	20.0	19.8		ug/L		99	70 - 125
trans-1,2-Dichloroethene	20.0	18.6		ug/L		93	74 - 130
Trichloroethene	20.0	18.8		ug/L		94	71 - 121
Vinyl chloride	20.0	19.9		ug/L		99	61 - 134

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	105		75 - 130
4-Bromofluorobenzene (Surr)	118		47 - 134
Toluene-d8 (Surr)	109		69 - 122
Dibromofluoromethane (Surr)	99		78 - 129

**Lab Sample ID: 240-144516-2 MS**  
**Matrix: Water**  
**Analysis Batch: 473923**

**Client Sample ID: MW-106S-MS\_021121**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	1.0	U	20.0	23.1		ug/L		115	64 - 132
cis-1,2-Dichloroethene	1.0	U	20.0	21.5		ug/L		107	68 - 121
Tetrachloroethene	1.0	U	20.0	24.7		ug/L		123	52 - 129
trans-1,2-Dichloroethene	1.0	U	20.0	22.6		ug/L		113	69 - 126
Trichloroethene	1.0	U	20.0	22.8		ug/L		114	56 - 124
Vinyl chloride	1.0	U	20.0	21.8		ug/L		109	49 - 136

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	119		75 - 130
4-Bromofluorobenzene (Surr)	134		47 - 134
Toluene-d8 (Surr)	126	S1+	69 - 122

Eurofins TestAmerica, Canton

# QC Sample Results

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

Job ID: 240-144516-1

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

**Lab Sample ID: 240-144516-2 MS**  
**Matrix: Water**  
**Analysis Batch: 473923**

**Client Sample ID: MW-106S-MS\_021121**  
**Prep Type: Total/NA**

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	117		78 - 129

**Lab Sample ID: 240-144516-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 473923**

**Client Sample ID: MW-106S-MSD\_021121**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
1,1-Dichloroethene	1.0	U	20.0	18.9		ug/L		94	64 - 132	20	35	
cis-1,2-Dichloroethene	1.0	U	20.0	17.4		ug/L		87	68 - 121	21	35	
Tetrachloroethene	1.0	U	20.0	19.4		ug/L		97	52 - 129	24	35	
trans-1,2-Dichloroethene	1.0	U	20.0	18.1		ug/L		91	69 - 126	22	35	
Trichloroethene	1.0	U	20.0	18.8		ug/L		94	56 - 124	19	35	
Vinyl chloride	1.0	U	20.0	18.7		ug/L		94	49 - 136	15	35	

  

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		75 - 130
4-Bromofluorobenzene (Surr)	113		47 - 134
Toluene-d8 (Surr)	102		69 - 122
Dibromofluoromethane (Surr)	94		78 - 129

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

**Lab Sample ID: MB 240-473720/5**  
**Matrix: Water**  
**Analysis Batch: 473720**

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	2.0	U	2.0	0.86	ug/L		02/19/21 11:08	1	

  

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	81		70 - 133	02/19/21 11:08	1	

**Lab Sample ID: LCS 240-473720/4**  
**Matrix: Water**  
**Analysis Batch: 473720**

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

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.	
		Result	Qualifier				Limits	RPD
1,4-Dioxane	10.0	9.95		ug/L		100	80 - 135	

  

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	82		70 - 133

**Lab Sample ID: 240-144516-2 MS**  
**Matrix: Water**  
**Analysis Batch: 473720**

**Client Sample ID: MW-106S-MS\_021121**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	RPD
1,4-Dioxane	2.0	U	10.0	10.6		ug/L		106	46 - 170	

Eurofins TestAmerica, Canton

# QC Sample Results

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

Job ID: 240-144516-1

## 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)	78		70 - 133

**Lab Sample ID: 240-144516-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 473720**

**Client Sample ID: MW-106S-MSD\_021121**  
**Prep Type: Total/NA**

<i>Analyte</i>	<i>Sample</i> <i>Result</i>	<i>Sample</i> <i>Qualifier</i>	<i>Spike</i> <i>Added</i>	<i>MSD</i> <i>Result</i>	<i>MSD</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i> <i>Limits</i>	<i>RPD</i>	<i>RPD</i> <i>Limit</i>
1,4-Dioxane	2.0	U	10.0	10.3		ug/L		103	46 - 170	3	26

<i>Surrogate</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	81		70 - 133

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

# QC Association Summary

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

Job ID: 240-144516-1

## GC/MS VOA

### Analysis Batch: 473720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144516-2	MW-106S_021121	Total/NA	Water	8260B SIM	
MB 240-473720/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-473720/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-144516-2 MS	MW-106S-MS_021121	Total/NA	Water	8260B SIM	
240-144516-2 MSD	MW-106S-MSD_021121	Total/NA	Water	8260B SIM	

### Analysis Batch: 473923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144516-1	TRIP BLANK	Total/NA	Water	8260B	
240-144516-2	MW-106S_021121	Total/NA	Water	8260B	
MB 240-473923/8	Method Blank	Total/NA	Water	8260B	
LCS 240-473923/5	Lab Control Sample	Total/NA	Water	8260B	
240-144516-2 MS	MW-106S-MS_021121	Total/NA	Water	8260B	
240-144516-2 MSD	MW-106S-MSD_021121	Total/NA	Water	8260B	

# Lab Chronicle

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

Job ID: 240-144516-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-144516-1**

**Date Collected: 02/11/21 00:00**

**Matrix: Water**

**Date Received: 02/13/21 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	473923	02/22/21 17:48	HMB	TAL CAN

**Client Sample ID: MW-106S\_021121**

**Lab Sample ID: 240-144516-2**

**Date Collected: 02/11/21 10:20**

**Matrix: Water**

**Date Received: 02/13/21 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	473923	02/22/21 18:10	HMB	TAL CAN
Total/NA	Analysis	8260B SIM		1	473720	02/19/21 19:35	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 - Off Site

Job ID: 240-144516-1

## 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	06-30-21
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21



# Chain of Custody Record

TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116

810-229-2763  
MICHIGAN  
190  
TestAmerica Laboratories, Inc.  
COC No:

Regulatory program: DW NPDES RCRA  
Lab Contact: Mike DellMontico  
Telephone: 330-497-9396

Client Project Manager: Kris Hinskey  
Site Contact: Julia McClafferty  
Telephone: 734-644-5131  
Email: kristoffer.hinskey@arcadis.com

Company Name: Arcadis  
Address: 29550 Cabot Drive, Suite 500  
City/State/Zip: Novi, MI 48377  
Phone: 248-994-2240  
Project Name: Ford LTP Off-Site  
Project Number: 30050315.402.04  
PO # 30050315.402.04

Analysis Turnaround Time  
TAT if different from below:  
3 weeks  
2 weeks  
1 week  
2 days  
1 day  
10 day

Method of Shipment/Carrier: With UPS  
Shipping/Tracking No:

Filtered Sample (Y/N)  
Composite=C / Grab=G

Containers & Preservatives  
H2SO4 HNO3 HCl NaOH NaCl Other:  
1 6 6 6

Matrix  
Aqueous Sediment Solid Other:  
1 6 6 6

Sample Identification	Sample Date	Sample Time	Filtered Sample (Y/N)	Composite=C / Grab=G	1,1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B	1,4-Dioxane 8260B SIM	Sample Specific Notes / Special Instructions:
TRIP BLANK			N	G	X	X	X	X	X	X	X	1 Trip blank
MW-1065-021121	2/11/21	1020	N	G	X	X	X	X	X	X	X	B UCCS for 8260B B UCCS for 8260B SIM
MW-1065-MS-021121	2/11/21	1020	N	G	X	X	X	X	X	X	X	Fun MS/MSD
MW-1065-MSD-021121	2/11/21	1020	N	G	X	X	X	X	X	X	X	Fun MS/MSD



Possible Hazard Identification  
 Non-Hazard  
 Irritant  
 Poison B  
 Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return to Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Kristoffer Hinskey	2/11/21 1700	Arcadis	Julia McClafferty	2/11/21 1700	Arcadis
Julia McClafferty	2/12/21 11:01	ETA	Received in Laboratory by:		



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

Login # : 14456

Client Accadis Site Name \_\_\_\_\_

Cooler unpacked by: Ryan C

Cooler Received on 2-13-21 Opened on 2-13-21

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

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

TestAmerica Cooler # TA 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-11 (CF +0.1 °C) Observed Cooler Temp. 1.5 °C Corrected Cooler Temp. 1.6 °C  
 IR GUN #IR-12 (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 1 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

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

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)?

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# HC907861

14. Were VOAs on the COC? Yes No

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 # 59072 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: \_\_\_\_\_

**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: \_\_\_\_\_