

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-149527-1  
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:  
5/29/2021 11:20:40 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.*

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# Definitions/Glossary

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

Job ID: 240-149527-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
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.
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: 240-149527-1

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## Job ID: 240-149527-1

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Laboratory: Eurofins TestAmerica, Canton

### Narrative

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Job Narrative  
240-149527-1

### Comments

No additional comments.

### Receipt

The samples were received on 5/15/2021 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 1.0° 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: 240-149527-1

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: 240-149527-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-149527-1	TRIP BLANK_74	Water	05/13/21 00:00	05/15/21 08:00	
240-149527-2	MW-76_051321	Water	05/13/21 09:30	05/15/21 08:00	
240-149527-3	MW-76S_051321	Water	05/13/21 10:40	05/15/21 08:00	
240-149527-4	MW-140S_051321	Water	05/13/21 13:45	05/15/21 08:00	

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- 13
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# Detection Summary

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

Job ID: 240-149527-1

**Client Sample ID: TRIP BLANK\_74**

**Lab Sample ID: 240-149527-1**

No Detections.

**Client Sample ID: MW-76\_051321**

**Lab Sample ID: 240-149527-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.52	J	1.0	0.16	ug/L	1		8260B	Total/NA

**Client Sample ID: MW-76S\_051321**

**Lab Sample ID: 240-149527-3**

No Detections.

**Client Sample ID: MW-140S\_051321**

**Lab Sample ID: 240-149527-4**

No Detections.

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 240-149527-1

**Client Sample ID: TRIP BLANK\_74**

**Lab Sample ID: 240-149527-1**

**Date Collected: 05/13/21 00:00**

**Matrix: Water**

**Date Received: 05/15/21 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			05/26/21 15:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/26/21 15:12	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/26/21 15:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/26/21 15:12	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/26/21 15:12	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/26/21 15:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 130		05/26/21 15:12	1
4-Bromofluorobenzene (Surr)	88		47 - 134		05/26/21 15:12	1
Toluene-d8 (Surr)	94		69 - 122		05/26/21 15:12	1
Dibromofluoromethane (Surr)	99		78 - 129		05/26/21 15:12	1



# Client Sample Results

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

Job ID: 240-149527-1

**Client Sample ID: MW-76\_051321**

**Lab Sample ID: 240-149527-2**

Date Collected: 05/13/21 09:30

Matrix: Water

Date Received: 05/15/21 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			05/24/21 20:40	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	99		70 - 133					05/24/21 20:40	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			05/27/21 10:31	1
<b>cis-1,2-Dichloroethene</b>	<b>0.52</b>	<b>J</b>	1.0	0.16	ug/L			05/27/21 10:31	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/27/21 10:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/27/21 10:31	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/27/21 10:31	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/27/21 10:31	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	85		75 - 130					05/27/21 10:31	1
4-Bromofluorobenzene (Surr)	79		47 - 134					05/27/21 10:31	1
Toluene-d8 (Surr)	97		69 - 122					05/27/21 10:31	1
Dibromofluoromethane (Surr)	87		78 - 129					05/27/21 10:31	1

# Client Sample Results

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

Job ID: 240-149527-1

**Client Sample ID: MW-76S\_051321**

**Lab Sample ID: 240-149527-3**

Date Collected: 05/13/21 10:40

Matrix: Water

Date Received: 05/15/21 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			05/21/21 14:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		70 - 133		05/21/21 14:29	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			05/26/21 20:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/26/21 20:59	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/26/21 20:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/26/21 20:59	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/26/21 20:59	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/26/21 20:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 130		05/26/21 20:59	1
4-Bromofluorobenzene (Surr)	96		47 - 134		05/26/21 20:59	1
Toluene-d8 (Surr)	98		69 - 122		05/26/21 20:59	1
Dibromofluoromethane (Surr)	105		78 - 129		05/26/21 20:59	1

# Client Sample Results

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

Job ID: 240-149527-1

**Client Sample ID: MW-140S\_051321**

**Lab Sample ID: 240-149527-4**

**Date Collected: 05/13/21 13:45**

**Matrix: Water**

**Date Received: 05/15/21 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			05/21/21 14:54	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	81		70 - 133					05/21/21 14:54	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			05/26/21 21:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/26/21 21:22	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/26/21 21:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/26/21 21:22	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/26/21 21:22	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/26/21 21:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	103		75 - 130					05/26/21 21:22	1
4-Bromofluorobenzene (Surr)	92		47 - 134					05/26/21 21:22	1
Toluene-d8 (Surr)	95		69 - 122					05/26/21 21:22	1
Dibromofluoromethane (Surr)	102		78 - 129					05/26/21 21:22	1

# Surrogate Summary

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

Job ID: 240-149527-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-130)	BFB (47-134)	TOL (69-122)	DBFM (78-129)
240-149470-D-4 MSD	Matrix Spike Duplicate	94	93	95	98
240-149470-G-4 MS	Matrix Spike	91	98	97	95
240-149526-J-3 MS	Matrix Spike	93	94	94	95
240-149526-Q-3 MSD	Matrix Spike Duplicate	96	96	96	97
240-149527-1	TRIP BLANK_74	99	88	94	99
240-149527-2	MW-76_051321	85	79	97	87
240-149527-2 MS	MW-76-MS_051321	95	93	106	95
240-149527-2 MSD	MW-76-MSD_051321	95	94	105	97
240-149527-3	MW-76S_051321	106	96	98	105
240-149527-4	MW-140S_051321	103	92	95	102
LCS 240-487605/5	Lab Control Sample	90	95	95	93
LCS 240-487788/4	Lab Control Sample	92	96	102	95
MB 240-487605/7	Method Blank	94	91	93	95
MB 240-487788/6	Method Blank	87	86	97	89

### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
TOL = Toluene-d8 (Surr)  
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (10-150)	BFB (10-150)	TOL (10-150)	DBFM (10-150)
MRL 240-487788/42	Lab Control Sample	87	84	98	88

### 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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (70-133)
240-149526-H-3 MS	Matrix Spike	85
240-149526-K-3 MSD	Matrix Spike Duplicate	81
240-149527-2	MW-76_051321	99
240-149527-2 MS	MW-76-MS_051321	96
240-149527-2 MSD	MW-76-MSD_051321	97
240-149527-3	MW-76S_051321	80
240-149527-4	MW-140S_051321	81
LCS 240-486956/4	Lab Control Sample	82
LCS 240-487242/4	Lab Control Sample	100
MB 240-486956/5	Method Blank	80

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# Surrogate Summary

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

Job ID: 240-149527-1

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

**Matrix: Water**

**Prep Type: Total/NA**

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (70-133)
MB 240-487242/5	Method Blank	97

### Surrogate Legend

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

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

# QC Sample Results

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

Job ID: 240-149527-1

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

**Lab Sample ID: MB 240-487605/7**  
**Matrix: Water**  
**Analysis Batch: 487605**

**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			05/26/21 12:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/26/21 12:31	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/26/21 12:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/26/21 12:31	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/26/21 12:31	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/26/21 12:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		75 - 130		05/26/21 12:31	1
4-Bromofluorobenzene (Surr)	91		47 - 134		05/26/21 12:31	1
Toluene-d8 (Surr)	93		69 - 122		05/26/21 12:31	1
Dibromofluoromethane (Surr)	95		78 - 129		05/26/21 12:31	1

**Lab Sample ID: LCS 240-487605/5**  
**Matrix: Water**  
**Analysis Batch: 487605**

**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	25.3		ug/L		101	73 - 129
cis-1,2-Dichloroethene	25.0	23.2		ug/L		93	75 - 124
Tetrachloroethene	25.0	23.3		ug/L		93	70 - 125
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	74 - 130
Trichloroethene	25.0	22.9		ug/L		92	71 - 121
Vinyl chloride	25.0	24.1		ug/L		97	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		75 - 130
4-Bromofluorobenzene (Surr)	95		47 - 134
Toluene-d8 (Surr)	95		69 - 122
Dibromofluoromethane (Surr)	93		78 - 129

**Lab Sample ID: 240-149470-D-4 MSD**  
**Matrix: Water**  
**Analysis Batch: 487605**

**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	25.0	25.2		ug/L		101	64 - 132	1	35
cis-1,2-Dichloroethene	0.38	J	25.0	23.1		ug/L		91	68 - 121	0	35
Tetrachloroethene	1.0	U	25.0	22.7		ug/L		91	52 - 129	2	35
trans-1,2-Dichloroethene	1.0	U	25.0	24.2		ug/L		97	69 - 126	0	35
Trichloroethene	1.0	U	25.0	23.1		ug/L		92	56 - 124	3	35
Vinyl chloride	3.4		25.0	26.7		ug/L		93	49 - 136	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		75 - 130
4-Bromofluorobenzene (Surr)	93		47 - 134
Toluene-d8 (Surr)	95		69 - 122

# QC Sample Results

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

Job ID: 240-149527-1

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

**Lab Sample ID: 240-149470-D-4 MSD**  
**Matrix: Water**  
**Analysis Batch: 487605**

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD Qualifier</i>	<i>MSD Limits</i>
<i>Dibromofluoromethane (Surr)</i>	98		78 - 129

**Lab Sample ID: 240-149470-G-4 MS**  
**Matrix: Water**  
**Analysis Batch: 487605**

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

<b>Analyte</b>	<b>Sample Result</b>	<b>Sample Qualifier</b>	<b>Spike Added</b>	<b>MS Result</b>	<b>MS Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>%Rec. Limits</b>
1,1-Dichloroethene	1.0	U	25.0	25.4		ug/L		101	64 - 132
cis-1,2-Dichloroethene	0.38	J	25.0	23.0		ug/L		91	68 - 121
Tetrachloroethene	1.0	U	25.0	23.1		ug/L		92	52 - 129
trans-1,2-Dichloroethene	1.0	U	25.0	24.2		ug/L		97	69 - 126
Trichloroethene	1.0	U	25.0	22.4		ug/L		90	56 - 124
Vinyl chloride	3.4		25.0	26.7		ug/L		93	49 - 136

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS Qualifier</i>	<i>MS Limits</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	91		75 - 130
<i>4-Bromofluorobenzene (Surr)</i>	98		47 - 134
<i>Toluene-d8 (Surr)</i>	97		69 - 122
<i>Dibromofluoromethane (Surr)</i>	95		78 - 129

**Lab Sample ID: 240-149526-J-3 MS**  
**Matrix: Water**  
**Analysis Batch: 487605**

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

<b>Analyte</b>	<b>Sample Result</b>	<b>Sample Qualifier</b>	<b>Spike Added</b>	<b>MS Result</b>	<b>MS Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>%Rec. Limits</b>
1,1-Dichloroethene	1.0	U	25.0	23.6		ug/L		95	64 - 132
cis-1,2-Dichloroethene	1.0	U	25.0	21.5		ug/L		86	68 - 121
Tetrachloroethene	1.0	U	25.0	21.0		ug/L		84	52 - 129
trans-1,2-Dichloroethene	1.0	U	25.0	22.8		ug/L		91	69 - 126
Trichloroethene	1.0	U	25.0	20.7		ug/L		83	56 - 124
Vinyl chloride	1.0	U	25.0	21.4		ug/L		85	49 - 136

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS Qualifier</i>	<i>MS Limits</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	93		75 - 130
<i>4-Bromofluorobenzene (Surr)</i>	94		47 - 134
<i>Toluene-d8 (Surr)</i>	94		69 - 122
<i>Dibromofluoromethane (Surr)</i>	95		78 - 129

**Lab Sample ID: 240-149526-Q-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 487605**

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

<b>Analyte</b>	<b>Sample Result</b>	<b>Sample Qualifier</b>	<b>Spike Added</b>	<b>MSD Result</b>	<b>MSD Qualifier</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>%Rec. Limits</b>	<b>RPD</b>	<b>RPD Limit</b>
1,1-Dichloroethene	1.0	U	25.0	25.4		ug/L		102	64 - 132	7	35
cis-1,2-Dichloroethene	1.0	U	25.0	23.5		ug/L		94	68 - 121	9	35
Tetrachloroethene	1.0	U	25.0	22.7		ug/L		91	52 - 129	8	35
trans-1,2-Dichloroethene	1.0	U	25.0	23.8		ug/L		95	69 - 126	4	35
Trichloroethene	1.0	U	25.0	22.9		ug/L		91	56 - 124	10	35

Eurofins TestAmerica, Canton

# QC Sample Results

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

Job ID: 240-149527-1

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

**Lab Sample ID: 240-149526-Q-3 MSD**

**Client Sample ID: Matrix Spike Duplicate**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 487605**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride	1.0	U	25.0	23.6		ug/L		94	49 - 136	10	35
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
1,2-Dichloroethane-d4 (Surr)	96		75 - 130								
4-Bromofluorobenzene (Surr)	96		47 - 134								
Toluene-d8 (Surr)	96		69 - 122								
Dibromofluoromethane (Surr)	97		78 - 129								

**Lab Sample ID: MB 240-487788/6**

**Client Sample ID: Method Blank**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 487788**

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			05/27/21 09:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/27/21 09:24	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/27/21 09:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/27/21 09:24	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/27/21 09:24	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/27/21 09:24	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>MB Qualifier</b>	<b>MB Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	87		75 - 130					05/27/21 09:24	1
4-Bromofluorobenzene (Surr)	86		47 - 134					05/27/21 09:24	1
Toluene-d8 (Surr)	97		69 - 122					05/27/21 09:24	1
Dibromofluoromethane (Surr)	89		78 - 129					05/27/21 09:24	1

**Lab Sample ID: LCS 240-487788/4**

**Client Sample ID: Lab Control Sample**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 487788**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	8.93		ug/L		89	73 - 129
cis-1,2-Dichloroethene	10.0	9.39		ug/L		94	75 - 124
Tetrachloroethene	10.0	8.69		ug/L		87	70 - 125
trans-1,2-Dichloroethene	10.0	9.22		ug/L		92	74 - 130
Trichloroethene	10.0	8.19		ug/L		82	71 - 121
Vinyl chloride	10.0	10.6		ug/L		106	61 - 134
<b>Surrogate</b>	<b>%Recovery</b>	<b>LCS Qualifier</b>	<b>LCS Limits</b>				
1,2-Dichloroethane-d4 (Surr)	92		75 - 130				
4-Bromofluorobenzene (Surr)	96		47 - 134				
Toluene-d8 (Surr)	102		69 - 122				
Dibromofluoromethane (Surr)	95		78 - 129				



# QC Sample Results

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

Job ID: 240-149527-1

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

**Lab Sample ID: MRL 240-487788/42**  
**Matrix: Water**  
**Analysis Batch: 487788**

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

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.00250	0.00228		ng/uL		91	10 - 150
cis-1,2-Dichloroethene	0.00250	0.00245		ng/uL		98	10 - 150
Tetrachloroethene	0.00250	0.00261		ng/uL		104	10 - 150
trans-1,2-Dichloroethene	0.00250	0.00246		ng/uL		98	10 - 150
Trichloroethene	0.00250	0.00229		ng/uL		92	10 - 150

Surrogate	MRL %Recovery	MRL Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		10 - 150
4-Bromofluorobenzene (Surr)	84		10 - 150
Toluene-d8 (Surr)	98		10 - 150
Dibromofluoromethane (Surr)	88		10 - 150

**Lab Sample ID: 240-149527-2 MS**  
**Matrix: Water**  
**Analysis Batch: 487788**

**Client Sample ID: MW-76-MS\_051321**  
**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	8.30		ug/L		83	64 - 132
cis-1,2-Dichloroethene	0.52	J	10.0	11.2		ug/L		107	68 - 121
Tetrachloroethene	1.0	U	10.0	8.99		ug/L		90	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	9.83		ug/L		98	69 - 126
Trichloroethene	1.0	U	10.0	8.97		ug/L		90	56 - 124
Vinyl chloride	1.0	U	10.0	9.95		ug/L		99	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		75 - 130
4-Bromofluorobenzene (Surr)	93		47 - 134
Toluene-d8 (Surr)	106		69 - 122
Dibromofluoromethane (Surr)	95		78 - 129

**Lab Sample ID: 240-149527-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 487788**

**Client Sample ID: MW-76-MSD\_051321**  
**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	10.5		ug/L		105	64 - 132	24	35
cis-1,2-Dichloroethene	0.52	J	10.0	11.0		ug/L		105	68 - 121	2	35
Tetrachloroethene	1.0	U	10.0	9.88		ug/L		99	52 - 129	9	35
trans-1,2-Dichloroethene	1.0	U	10.0	10.4		ug/L		104	69 - 126	6	35
Trichloroethene	1.0	U	10.0	9.09		ug/L		91	56 - 124	1	35
Vinyl chloride	1.0	U	10.0	12.2		ug/L		122	49 - 136	20	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		75 - 130
4-Bromofluorobenzene (Surr)	94		47 - 134
Toluene-d8 (Surr)	105		69 - 122
Dibromofluoromethane (Surr)	97		78 - 129

Eurofins TestAmerica, Canton

# QC Sample Results

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

Job ID: 240-149527-1

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

**Lab Sample ID: MB 240-486956/5**  
**Matrix: Water**  
**Analysis Batch: 486956**

**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			05/21/21 13:40	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		70 - 133					05/21/21 13:40	1

**Lab Sample ID: LCS 240-486956/4**  
**Matrix: Water**  
**Analysis Batch: 486956**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	10.0	10.8		ug/L		108	80 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	82		70 - 133				

**Lab Sample ID: 240-149526-H-3 MS**  
**Matrix: Water**  
**Analysis Batch: 486956**

**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	10.3		ug/L		103	46 - 170
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	85		70 - 133						

**Lab Sample ID: 240-149526-K-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 486956**

**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
1,4-Dioxane	2.0	U	10.0	10.3		ug/L		103	46 - 170	0	26
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	81		70 - 133								

**Lab Sample ID: MB 240-487242/5**  
**Matrix: Water**  
**Analysis Batch: 487242**

**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			05/24/21 16:31	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 133					05/24/21 16:31	1

Eurofins TestAmerica, Canton

# QC Sample Results

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

Job ID: 240-149527-1

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

**Lab Sample ID: LCS 240-487242/4**  
**Matrix: Water**  
**Analysis Batch: 487242**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	10.0	10.3		ug/L		103	80 - 135
<b>Surrogate</b>							
	%Recovery	LCS Qualifier	LCS Limits				
1,2-Dichloroethane-d4 (Surr)	100		70 - 133				

**Lab Sample ID: 240-149527-2 MS**  
**Matrix: Water**  
**Analysis Batch: 487242**

**Client Sample ID: MW-76-MS\_051321**  
**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	10.3		ug/L		103	46 - 170
<b>Surrogate</b>									
	%Recovery	MS Qualifier	MS Limits						
1,2-Dichloroethane-d4 (Surr)	96		70 - 133						

**Lab Sample ID: 240-149527-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 487242**

**Client Sample ID: MW-76-MSD\_051321**  
**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	10.2		ug/L		102	46 - 170	1	26
<b>Surrogate</b>											
	%Recovery	MSD Qualifier	MSD Limits								
1,2-Dichloroethane-d4 (Surr)	97		70 - 133								

# QC Association Summary

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

Job ID: 240-149527-1

## GC/MS VOA

### Analysis Batch: 486956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149527-3	MW-76S_051321	Total/NA	Water	8260B SIM	
240-149527-4	MW-140S_051321	Total/NA	Water	8260B SIM	
MB 240-486956/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-486956/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-149526-H-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-149526-K-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

### Analysis Batch: 487242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149527-2	MW-76_051321	Total/NA	Water	8260B SIM	
MB 240-487242/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-487242/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-149527-2 MS	MW-76-MS_051321	Total/NA	Water	8260B SIM	
240-149527-2 MSD	MW-76-MSD_051321	Total/NA	Water	8260B SIM	

### Analysis Batch: 487605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149527-1	TRIP BLANK_74	Total/NA	Water	8260B	
240-149527-3	MW-76S_051321	Total/NA	Water	8260B	
240-149527-4	MW-140S_051321	Total/NA	Water	8260B	
MB 240-487605/7	Method Blank	Total/NA	Water	8260B	
LCS 240-487605/5	Lab Control Sample	Total/NA	Water	8260B	
240-149470-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
240-149470-G-4 MS	Matrix Spike	Total/NA	Water	8260B	
240-149526-J-3 MS	Matrix Spike	Total/NA	Water	8260B	
240-149526-Q-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

### Analysis Batch: 487788

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149527-2	MW-76_051321	Total/NA	Water	8260B	
MB 240-487788/6	Method Blank	Total/NA	Water	8260B	
LCS 240-487788/4	Lab Control Sample	Total/NA	Water	8260B	
MRL 240-487788/42	Lab Control Sample	Total/NA	Water	8260B	
240-149527-2 MS	MW-76-MS_051321	Total/NA	Water	8260B	
240-149527-2 MSD	MW-76-MSD_051321	Total/NA	Water	8260B	

# Lab Chronicle

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

Job ID: 240-149527-1

**Client Sample ID: TRIP BLANK\_74**

**Lab Sample ID: 240-149527-1**

Date Collected: 05/13/21 00:00

Matrix: Water

Date Received: 05/15/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	487605	05/26/21 15:12	SAM	TAL CAN

**Client Sample ID: MW-76\_051321**

**Lab Sample ID: 240-149527-2**

Date Collected: 05/13/21 09:30

Matrix: Water

Date Received: 05/15/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	487788	05/27/21 10:31	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	487242	05/24/21 20:40	CS	TAL CAN

**Client Sample ID: MW-76S\_051321**

**Lab Sample ID: 240-149527-3**

Date Collected: 05/13/21 10:40

Matrix: Water

Date Received: 05/15/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	487605	05/26/21 20:59	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	486956	05/21/21 14:29	CS	TAL CAN

**Client Sample ID: MW-140S\_051321**

**Lab Sample ID: 240-149527-4**

Date Collected: 05/13/21 13:45

Matrix: Water

Date Received: 05/15/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	487605	05/26/21 21:22	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	486956	05/21/21 14:54	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: 240-149527-1

## 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	06-30-21
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21 *
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
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

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



Chain of Custody Record

MICHIGAN TestAmerica

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

04/10

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<b>Client Contact</b> Company Name: Arcadis Address: 28550 Cabot Drive, Suite 500 City/State/Zip: Novi, MI, 48377 Phone: 248-994-2240 Project Name: Ford LTP OIF-Site Project Number: 30080642-402.04 PO # 30080642-402.04		<b>Regulatory program</b> DW NPDES RCRA Other Client Project Manager: Kris Hinsky Telephone: 248-994-2240 Email: kris@hinsky@arcadis.com Sampler Name: Emma Witherspoon Method of Shipment/Carrier: Shipping/Tracking No:		<b>Site Contact: Julia McClafferty</b> Telephone: 338-497-9396 Lab Contact: Mike DeMonico Telephone: 338-497-9396		TestAmerica Laboratories, Inc. COC No: 1 of 1 COCs For lab use only: Walk-in client Lab sampling Job/SDG No:	
<b>Analyses</b> 1-DCE 8260B Cis-1,2-DCE 8260B Trans-1,2-DCE 8260B PCE 8260B Vinyl Chloride 8260B 1,4-Dioxane 8260B SIM		<b>Filtered Sample (Y/N)</b> Composite C/Grab G 1-DCE 8260B Cis-1,2-DCE 8260B Trans-1,2-DCE 8260B PCE 8260B Vinyl Chloride 8260B 1,4-Dioxane 8260B SIM		Sample Specific Notes Special Instructions: 1 Trip Blank 3 VOAs for 8260B 3 VOAs for 8260B SIM Run MS/MSD		Sample Disposal (A fee may be Return to Client <input type="checkbox"/> Disposal By Lab <input checked="" type="checkbox"/> Archive For 1 Months	
<b>Matrix</b> Air Aqueous Sediment Solid Other		<b>Comminers &amp; Preservatives</b> H2SO4 HNO3 HCl NaOH ZnAc NaCl Other		<b>Analysis Turnaround Time</b> TAT: 10 day 3 weeks 2 weeks 1 week 2 days 1 day		Barcode: 240-149527 Chain of Custody	
Sample Identification	Sample Date	Sample Time	Matrix	Comminers & Preservatives	Analysis Turnaround Time	Sample Specific Notes	Sample Disposal
TRIP BLANK 74	---	---					
MW-76-051321	5/13/21	930	X				
MW 76 MS-051321	5/13/21	930	X				
MW 76 MSD_051321	5/13/21	930	X				
MW 76S_051321	5/13/21	1040	X				
MW 140S_051321	5/13/21	1345	X				

Relinquished by: <i>Emma Witherspoon</i>	Company: Arcadis	Date/Time: 5/13/21 1500	Received by: <i>Nov Cold Storage</i>	Company: Arcadis	Date/Time: 5/13/21 1500
Relinquished by: <i>John Witherspoon</i>	Company: Arcadis	Date/Time: 5/14/21 1215	Received by: <i>Emma Witherspoon</i>	Company: E7A	Date/Time: 5/14/21 1215
Relinquished by: <i>Emma Witherspoon</i>	Company: E7A	Date/Time: 5/14/21 1452	Received in Laboratory by: <i>Down Genet</i>	Company: E7A	Date/Time: 5-15-21 1800

**Eurofins TestAmerica Canton Sample Receipt Form/Narrative** Login # 149527  
**Canton Facility**

Client Arcadis Site Name \_\_\_\_\_ Cooler unpacked by: Adam Gornoff  
Cooler Received on 5-15-21 Opened on 5-17-21  
FedEx 1st Grd ~~Exp~~ UPS FAS Chopper Client Drop Off TestAmerica Courier Other \_\_\_\_\_

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

TestAmerica Cooler # 44 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 09 °C Corrected Cooler Temp 10 °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

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# HC022887  
14 Were VOAs on the COC? Yes No  
15 Were air bubbles >6 mm in any VOA vials? Yes NO NA ← Larger than this.  
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Covered 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 \_\_\_\_\_

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

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES  additional next page Samples processed by: \_\_\_\_\_

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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 \_\_\_\_\_