

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-160208-1  
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:  
12/1/2021 1:54:38 PM

Michael DelMonico, Project Manager I  
(330)497-9396  
[Michael.DelMonico@Eurofinset.com](mailto:Michael.DelMonico@Eurofinset.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: 240-160208-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD 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.

## 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 - On-Site

Job ID: 240-160208-1

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## Job ID: 240-160208-1

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Laboratory: Eurofins TestAmerica, Canton

### Narrative

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#### Job Narrative 240-160208-1

### Comments

No additional comments.

### Receipt

The samples were received on 11/17/2021 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 0.3° C.

### GC/MS VOA

No analytical or quality issues were noted, other than those described above or 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 - On-Site

Job ID: 240-160208-1

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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- 14

# Sample Summary

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

Job ID: 240-160208-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-160208-1	TRIP BLANK_128	Water	11/15/21 00:00	11/17/21 08:00
240-160208-2	MW-66_111521	Water	11/15/21 10:01	11/17/21 08:00
240-160208-3	MW-44_111521	Water	11/15/21 11:26	11/17/21 08:00
240-160208-4	MW-22_111521	Water	11/15/21 13:06	11/17/21 08:00
240-160208-5	MW-23_111521	Water	11/15/21 14:41	11/17/21 08:00
240-160208-6	PW-16-01_111521	Water	11/15/21 16:06	11/17/21 08:00

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- 6
- 7
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- 9
- 10
- 11
- 12
- 13
- 14

# Detection Summary

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

Job ID: 240-160208-1

## Client Sample ID: TRIP BLANK\_128

Lab Sample ID: 240-160208-1

No Detections.

## Client Sample ID: MW-66\_111521

Lab Sample ID: 240-160208-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	2.6		1.0	0.45	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-44\_111521

Lab Sample ID: 240-160208-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	16		2.0	0.86	ug/L	1		8260B SIM	Total/NA
Vinyl chloride	130		6.7	3.0	ug/L	6.667		8260B	Total/NA

## Client Sample ID: MW-22\_111521

Lab Sample ID: 240-160208-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	52		2.0	0.86	ug/L	1		8260B SIM	Total/NA
cis-1,2-Dichloroethene	47		33	15	ug/L	33.333		8260B	Total/NA
Vinyl chloride	1600		33	15	ug/L	33.333		8260B	Total/NA

## Client Sample ID: MW-23\_111521

Lab Sample ID: 240-160208-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.8	J	2.0	0.86	ug/L	1		8260B SIM	Total/NA
cis-1,2-Dichloroethene	57000		1700	770	ug/L	1666.66		8260B	Total/NA
trans-1,2-Dichloroethene	1700		500	260	ug/L	500		8260B	Total/NA
Trichloroethene	13000		500	220	ug/L	500		8260B	Total/NA
Vinyl chloride	540		500	230	ug/L	500		8260B	Total/NA

## Client Sample ID: PW-16-01\_111521

Lab Sample ID: 240-160208-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	63		17	7.7	ug/L	16.667		8260B	Total/NA
Vinyl chloride	670		17	7.5	ug/L	16.667		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: 240-160208-1

**Client Sample ID: TRIP BLANK\_128**

**Lab Sample ID: 240-160208-1**

**Date Collected: 11/15/21 00:00**

**Matrix: Water**

**Date Received: 11/17/21 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	0.49	ug/L			11/24/21 08:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/24/21 08:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/24/21 08:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/24/21 08:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/24/21 08:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/24/21 08:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137		11/24/21 08:15	1
4-Bromofluorobenzene (Surr)	80		56 - 136		11/24/21 08:15	1
Toluene-d8 (Surr)	106		78 - 122		11/24/21 08:15	1
Dibromofluoromethane (Surr)	98		73 - 120		11/24/21 08:15	1



# Client Sample Results

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

Job ID: 240-160208-1

**Client Sample ID: MW-66\_111521**

**Lab Sample ID: 240-160208-2**

Date Collected: 11/15/21 10:01

Matrix: Water

Date Received: 11/17/21 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			11/19/21 20:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	75		66 - 120					11/19/21 20:25	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			11/24/21 08:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/24/21 08:38	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/24/21 08:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/24/21 08:38	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/24/21 08:38	1
<b>Vinyl chloride</b>	<b>2.6</b>		1.0	0.45	ug/L			11/24/21 08:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137					11/24/21 08:38	1
4-Bromofluorobenzene (Surr)	75		56 - 136					11/24/21 08:38	1
Toluene-d8 (Surr)	111		78 - 122					11/24/21 08:38	1
Dibromofluoromethane (Surr)	93		73 - 120					11/24/21 08:38	1

# Client Sample Results

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

Job ID: 240-160208-1

**Client Sample ID: MW-44\_111521**

**Lab Sample ID: 240-160208-3**

Date Collected: 11/15/21 11:26

Matrix: Water

Date Received: 11/17/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	16		2.0	0.86	ug/L			11/19/21 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		66 - 120		11/19/21 20:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	6.7	U	6.7	3.3	ug/L			11/23/21 23:53	6.667
cis-1,2-Dichloroethene	6.7	U	6.7	3.1	ug/L			11/23/21 23:53	6.667
Tetrachloroethene	6.7	U	6.7	2.9	ug/L			11/23/21 23:53	6.667
trans-1,2-Dichloroethene	6.7	U	6.7	3.4	ug/L			11/23/21 23:53	6.667
Trichloroethene	6.7	U	6.7	2.9	ug/L			11/23/21 23:53	6.667
Vinyl chloride	130		6.7	3.0	ug/L			11/23/21 23:53	6.667

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137		11/23/21 23:53	6.667
4-Bromofluorobenzene (Surr)	93		56 - 136		11/23/21 23:53	6.667
Toluene-d8 (Surr)	98		78 - 122		11/23/21 23:53	6.667
Dibromofluoromethane (Surr)	105		73 - 120		11/23/21 23:53	6.667

# Client Sample Results

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

Job ID: 240-160208-1

**Client Sample ID: MW-22\_111521**

**Lab Sample ID: 240-160208-4**

Date Collected: 11/15/21 13:06

Matrix: Water

Date Received: 11/17/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1,4-Dioxane</b>	<b>52</b>		2.0	0.86	ug/L			11/19/21 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		66 - 120					11/19/21 21:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	33	U	33	16	ug/L			11/24/21 18:25	33.333
<b>cis-1,2-Dichloroethene</b>	<b>47</b>		33	15	ug/L			11/24/21 18:25	33.333
Tetrachloroethene	33	U	33	15	ug/L			11/24/21 18:25	33.333
trans-1,2-Dichloroethene	33	U	33	17	ug/L			11/24/21 18:25	33.333
Trichloroethene	33	U	33	15	ug/L			11/24/21 18:25	33.333
<b>Vinyl chloride</b>	<b>1600</b>		33	15	ug/L			11/24/21 18:25	33.333
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137					11/24/21 18:25	33.333
4-Bromofluorobenzene (Surr)	94		56 - 136					11/24/21 18:25	33.333
Toluene-d8 (Surr)	102		78 - 122					11/24/21 18:25	33.333
Dibromofluoromethane (Surr)	113		73 - 120					11/24/21 18:25	33.333

# Client Sample Results

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

Job ID: 240-160208-1

**Client Sample ID: MW-23\_111521**

**Lab Sample ID: 240-160208-5**

Date Collected: 11/15/21 14:41

Matrix: Water

Date Received: 11/17/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.8	J	2.0	0.86	ug/L			11/19/21 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		66 - 120					11/19/21 21:40	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	250	ug/L			11/24/21 00:41	500
cis-1,2-Dichloroethene	57000		1700	770	ug/L			11/24/21 18:48	1666.66
Tetrachloroethene	500	U	500	220	ug/L			11/24/21 00:41	500
trans-1,2-Dichloroethene	1700		500	260	ug/L			11/24/21 00:41	500
Trichloroethene	13000		500	220	ug/L			11/24/21 00:41	500
Vinyl chloride	540		500	230	ug/L			11/24/21 00:41	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137					11/24/21 00:41	500
1,2-Dichloroethane-d4 (Surr)	102		62 - 137					11/24/21 18:48	1666.66
4-Bromofluorobenzene (Surr)	89		56 - 136					11/24/21 00:41	500
4-Bromofluorobenzene (Surr)	94		56 - 136					11/24/21 18:48	1666.66
Toluene-d8 (Surr)	98		78 - 122					11/24/21 00:41	500
Toluene-d8 (Surr)	103		78 - 122					11/24/21 18:48	1666.66
Dibromofluoromethane (Surr)	104		73 - 120					11/24/21 00:41	500
Dibromofluoromethane (Surr)	116		73 - 120					11/24/21 18:48	1666.66

# Client Sample Results

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

Job ID: 240-160208-1

**Client Sample ID: PW-16-01\_111521**

**Lab Sample ID: 240-160208-6**

**Date Collected: 11/15/21 16:06**

**Matrix: Water**

**Date Received: 11/17/21 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			11/19/21 22:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		66 - 120		11/19/21 22:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	17	U	17	8.2	ug/L			11/24/21 19:12	16.667
<b>cis-1,2-Dichloroethene</b>	<b>63</b>		17	7.7	ug/L			11/24/21 19:12	16.667
Tetrachloroethene	17	U	17	7.3	ug/L			11/24/21 19:12	16.667
trans-1,2-Dichloroethene	17	U	17	8.5	ug/L			11/24/21 19:12	16.667
Trichloroethene	17	U	17	7.3	ug/L			11/24/21 19:12	16.667
<b>Vinyl chloride</b>	<b>670</b>		17	7.5	ug/L			11/24/21 19:12	16.667

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137		11/24/21 19:12	16.667
4-Bromofluorobenzene (Surr)	94		56 - 136		11/24/21 19:12	16.667
Toluene-d8 (Surr)	102		78 - 122		11/24/21 19:12	16.667
Dibromofluoromethane (Surr)	112		73 - 120		11/24/21 19:12	16.667

# Surrogate Summary

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

Job ID: 240-160208-1

## 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 (62-137)	BFB (56-136)	TOL (78-122)	DBFM (73-120)
240-160158-E-2 MSD	Matrix Spike Duplicate	100	91	96	91
240-160158-H-2 MS	Matrix Spike	102	84	112	92
240-160208-1	TRIP BLANK_128	107	80	106	98
240-160208-2	MW-66_111521	104	75	111	93
240-160208-3	MW-44_111521	100	93	98	105
240-160208-4	MW-22_111521	105	94	102	113
240-160208-5	MW-23_111521	97	89	98	104
240-160208-5	MW-23_111521	102	94	103	116
240-160208-6	PW-16-01_111521	104	94	102	112
240-160208-6 MS	PW-16-01_111521	98	100	104	107
240-160208-6 MSD	PW-16-01_111521	97	100	105	105
240-160551-B-10 MS	Matrix Spike	95	95	104	104
240-160551-B-10 MSD	Matrix Spike Duplicate	93	98	106	103
LCS 240-514335/5	Lab Control Sample	90	94	98	103
LCS 240-514355/4	Lab Control Sample	95	80	100	88
LCS 240-514539/5	Lab Control Sample	98	100	107	107
MB 240-514335/8	Method Blank	92	89	95	101
MB 240-514355/6	Method Blank	108	79	112	97
MB 240-514539/8	Method Blank	99	95	104	112

#### 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)
240-160208-2	MW-66_111521	75
240-160208-3	MW-44_111521	76
240-160208-4	MW-22_111521	77
240-160208-5	MW-23_111521	85
240-160208-6	PW-16-01_111521	85
240-160325-I-3 MS	Matrix Spike	80
240-160325-M-3 MSD	Matrix Spike Duplicate	75
LCS 240-513930/4	Lab Control Sample	74
MB 240-513930/5	Method Blank	76

#### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-160208-1

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

**Lab Sample ID: MB 240-514335/8**  
**Matrix: Water**  
**Analysis Batch: 514335**

**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	0.49	ug/L			11/23/21 15:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/21 15:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/21 15:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/21 15:59	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/21 15:59	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/21 15:59	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	92		62 - 137		11/23/21 15:59	1
4-Bromofluorobenzene (Surr)	89		56 - 136		11/23/21 15:59	1
Toluene-d8 (Surr)	95		78 - 122		11/23/21 15:59	1
Dibromofluoromethane (Surr)	101		73 - 120		11/23/21 15:59	1

**Lab Sample ID: LCS 240-514335/5**  
**Matrix: Water**  
**Analysis Batch: 514335**

**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	25.0	25.7		ug/L		103	63 - 134
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	77 - 123
Tetrachloroethene	25.0	26.5		ug/L		106	76 - 123
trans-1,2-Dichloroethene	25.0	24.4		ug/L		98	75 - 124
Trichloroethene	25.0	25.1		ug/L		101	70 - 122
Vinyl chloride	25.0	20.3		ug/L		81	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	94		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	103		73 - 120

**Lab Sample ID: 240-160551-B-10 MS**  
**Matrix: Water**  
**Analysis Batch: 514335**

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

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	250	U	6250	6360		ug/L		102	56 - 135
cis-1,2-Dichloroethene	250	U	6250	5850		ug/L		94	66 - 128
Tetrachloroethene	250	U	6250	6810		ug/L		109	62 - 131
trans-1,2-Dichloroethene	250	U	6250	6190		ug/L		99	56 - 136
Trichloroethene	250	U	6250	6660		ug/L		107	61 - 124
Vinyl chloride	250	U	6250	5070		ug/L		81	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	95		62 - 137
4-Bromofluorobenzene (Surr)	95		56 - 136
Toluene-d8 (Surr)	104		78 - 122

Eurofins TestAmerica, Canton

# QC Sample Results

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

Job ID: 240-160208-1

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

**Lab Sample ID: 240-160551-B-10 MS**  
**Matrix: Water**  
**Analysis Batch: 514335**

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

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	104		73 - 120

**Lab Sample ID: 240-160551-B-10 MSD**  
**Matrix: Water**  
**Analysis Batch: 514335**

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

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,1-Dichloroethene	250	U	6250	6130		ug/L		98	56 - 135	4	26
cis-1,2-Dichloroethene	250	U	6250	5840		ug/L		93	66 - 128	0	14
Tetrachloroethene	250	U	6250	6750		ug/L		108	62 - 131	1	20
trans-1,2-Dichloroethene	250	U	6250	6000		ug/L		96	56 - 136	3	15
Trichloroethene	250	U	6250	6420		ug/L		103	61 - 124	4	15
Vinyl chloride	250	U	6250	4950		ug/L		79	43 - 157	2	24

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	106		78 - 122
Dibromofluoromethane (Surr)	103		73 - 120

**Lab Sample ID: MB 240-514355/6**  
**Matrix: Water**  
**Analysis Batch: 514355**

**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	0.49	ug/L			11/24/21 01:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/24/21 01:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/24/21 01:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/24/21 01:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/24/21 01:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/24/21 01:12	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	108		62 - 137		11/24/21 01:12	1
4-Bromofluorobenzene (Surr)	79		56 - 136		11/24/21 01:12	1
Toluene-d8 (Surr)	112		78 - 122		11/24/21 01:12	1
Dibromofluoromethane (Surr)	97		73 - 120		11/24/21 01:12	1

**Lab Sample ID: LCS 240-514355/4**  
**Matrix: Water**  
**Analysis Batch: 514355**

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
1,1-Dichloroethene	10.0	9.60		ug/L		96	63 - 134
cis-1,2-Dichloroethene	10.0	10.0		ug/L		100	77 - 123
Tetrachloroethene	10.0	9.21		ug/L		92	76 - 123
trans-1,2-Dichloroethene	10.0	9.45		ug/L		95	75 - 124
Trichloroethene	10.0	8.64		ug/L		86	70 - 122

Eurofins TestAmerica, Canton



# QC Sample Results

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

Job ID: 240-160208-1

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

**Lab Sample ID: LCS 240-514355/4**

**Matrix: Water**

**Analysis Batch: 514355**

**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	10.0		ug/L		100	60 - 144
<b>Surrogate</b>							
	<b>LCS %Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
1,2-Dichloroethane-d4 (Surr)	95		62 - 137				
4-Bromofluorobenzene (Surr)	80		56 - 136				
Toluene-d8 (Surr)	100		78 - 122				
Dibromofluoromethane (Surr)	88		73 - 120				

**Lab Sample ID: 240-160158-E-2 MSD**

**Matrix: Water**

**Analysis Batch: 514355**

**Client Sample ID: Matrix Spike Duplicate**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	1.0	U	10.0	9.59		ug/L		96	56 - 135	14	26
cis-1,2-Dichloroethene	1.0	U	10.0	9.56		ug/L		96	66 - 128	9	14
Tetrachloroethene	1.0	U	10.0	8.55		ug/L		86	62 - 131	14	20
trans-1,2-Dichloroethene	1.0	U	10.0	9.09		ug/L		91	56 - 136	5	15
Trichloroethene	1.0	U F2	10.0	8.30	F2	ug/L		83	61 - 124	17	15
Vinyl chloride	1.0	U F2	10.0	12.1	F2	ug/L		121	43 - 157	25	24
<b>Surrogate</b>											
	<b>MSD %Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
1,2-Dichloroethane-d4 (Surr)	100		62 - 137								
4-Bromofluorobenzene (Surr)	91		56 - 136								
Toluene-d8 (Surr)	96		78 - 122								
Dibromofluoromethane (Surr)	91		73 - 120								

**Lab Sample ID: 240-160158-H-2 MS**

**Matrix: Water**

**Analysis Batch: 514355**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	1.0	U	10.0	8.36		ug/L		84	56 - 135
cis-1,2-Dichloroethene	1.0	U	10.0	8.77		ug/L		88	66 - 128
Tetrachloroethene	1.0	U	10.0	7.41		ug/L		74	62 - 131
trans-1,2-Dichloroethene	1.0	U	10.0	8.61		ug/L		86	56 - 136
Trichloroethene	1.0	U F2	10.0	6.97		ug/L		70	61 - 124
Vinyl chloride	1.0	U F2	10.0	9.41		ug/L		94	43 - 157
<b>Surrogate</b>									
	<b>MS %Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
1,2-Dichloroethane-d4 (Surr)	102		62 - 137						
4-Bromofluorobenzene (Surr)	84		56 - 136						
Toluene-d8 (Surr)	112		78 - 122						
Dibromofluoromethane (Surr)	92		73 - 120						

# QC Sample Results

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

Job ID: 240-160208-1

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

**Lab Sample ID: MB 240-514539/8**  
**Matrix: Water**  
**Analysis Batch: 514539**

**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	0.49	ug/L			11/24/21 15:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/24/21 15:16	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/24/21 15:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/24/21 15:16	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/24/21 15:16	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/24/21 15:16	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	99		62 - 137		11/24/21 15:16	1
4-Bromofluorobenzene (Surr)	95		56 - 136		11/24/21 15:16	1
Toluene-d8 (Surr)	104		78 - 122		11/24/21 15:16	1
Dibromofluoromethane (Surr)	112		73 - 120		11/24/21 15:16	1

**Lab Sample ID: LCS 240-514539/5**  
**Matrix: Water**  
**Analysis Batch: 514539**

**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	25.0	27.8		ug/L		111	63 - 134
cis-1,2-Dichloroethene	25.0	25.9		ug/L		103	77 - 123
Tetrachloroethene	25.0	29.9		ug/L		120	76 - 123
trans-1,2-Dichloroethene	25.0	27.0		ug/L		108	75 - 124
Trichloroethene	25.0	27.3		ug/L		109	70 - 122
Vinyl chloride	25.0	23.6		ug/L		94	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	107		78 - 122
Dibromofluoromethane (Surr)	107		73 - 120

**Lab Sample ID: 240-160208-6 MS**  
**Matrix: Water**  
**Analysis Batch: 514539**

**Client Sample ID: PW-16-01\_111521**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	17	U	417	430		ug/L		103	56 - 135
cis-1,2-Dichloroethene	63		417	470		ug/L		98	66 - 128
Tetrachloroethene	17	U	417	500		ug/L		120	62 - 131
trans-1,2-Dichloroethene	17	U	417	419		ug/L		101	56 - 136
Trichloroethene	17	U	417	454		ug/L		109	61 - 124
Vinyl chloride	670		417	1000		ug/L		80	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	104		78 - 122

Eurofins TestAmerica, Canton

# QC Sample Results

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

Job ID: 240-160208-1

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

**Lab Sample ID: 240-160208-6 MS**  
**Matrix: Water**  
**Analysis Batch: 514539**

**Client Sample ID: PW-16-01\_111521**  
**Prep Type: Total/NA**

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	107		73 - 120

**Lab Sample ID: 240-160208-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 514539**

**Client Sample ID: PW-16-01\_111521**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits	RPD		
1,1-Dichloroethene	17	U	417	445		ug/L		107	56 - 135	3	26	
cis-1,2-Dichloroethene	63		417	474		ug/L		99	66 - 128	1	14	
Tetrachloroethene	17	U	417	507		ug/L		122	62 - 131	1	20	
trans-1,2-Dichloroethene	17	U	417	423		ug/L		101	56 - 136	1	15	
Trichloroethene	17	U	417	450		ug/L		108	61 - 124	1	15	
Vinyl chloride	670		417	1010		ug/L		80	43 - 157	0	24	

  

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	105		73 - 120

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

**Lab Sample ID: MB 240-513930/5**  
**Matrix: Water**  
**Analysis Batch: 513930**

**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			11/19/21 18:46	1

  

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	76		66 - 120		11/19/21 18:46	1

**Lab Sample ID: LCS 240-513930/4**  
**Matrix: Water**  
**Analysis Batch: 513930**

**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	10.6		ug/L		106	80 - 122	

  

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	74		66 - 120

**Lab Sample ID: 240-160325-I-3 MS**  
**Matrix: Water**  
**Analysis Batch: 513930**

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

Analyte	Sample	Sample	Spike	MS		Unit	D	%Rec	%Rec.	
	Result	Qualifier		Result	Qualifier				Limits	RPD
1,4-Dioxane	1.4	J F1	10.0	11.4		ug/L		101	51 - 153	

Eurofins TestAmerica, Canton

# QC Sample Results

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

Job ID: 240-160208-1

## 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)	80		66 - 120

**Lab Sample ID: 240-160325-M-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 513930**

**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	1.4	J F1	10.0	11.0		ug/L		96	51 - 153	4	16

<i>Surrogate</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	75		66 - 120

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# QC Association Summary

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

Job ID: 240-160208-1

## GC/MS VOA

### Analysis Batch: 513930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-160208-2	MW-66_111521	Total/NA	Water	8260B SIM	
240-160208-3	MW-44_111521	Total/NA	Water	8260B SIM	
240-160208-4	MW-22_111521	Total/NA	Water	8260B SIM	
240-160208-5	MW-23_111521	Total/NA	Water	8260B SIM	
240-160208-6	PW-16-01_111521	Total/NA	Water	8260B SIM	
MB 240-513930/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-513930/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-160325-I-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-160325-M-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

### Analysis Batch: 514335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-160208-3	MW-44_111521	Total/NA	Water	8260B	
240-160208-5	MW-23_111521	Total/NA	Water	8260B	
MB 240-514335/8	Method Blank	Total/NA	Water	8260B	
LCS 240-514335/5	Lab Control Sample	Total/NA	Water	8260B	
240-160551-B-10 MS	Matrix Spike	Total/NA	Water	8260B	
240-160551-B-10 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

### Analysis Batch: 514355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-160208-1	TRIP BLANK_128	Total/NA	Water	8260B	
240-160208-2	MW-66_111521	Total/NA	Water	8260B	
MB 240-514355/6	Method Blank	Total/NA	Water	8260B	
LCS 240-514355/4	Lab Control Sample	Total/NA	Water	8260B	
240-160158-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
240-160158-H-2 MS	Matrix Spike	Total/NA	Water	8260B	

### Analysis Batch: 514539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-160208-4	MW-22_111521	Total/NA	Water	8260B	
240-160208-5	MW-23_111521	Total/NA	Water	8260B	
240-160208-6	PW-16-01_111521	Total/NA	Water	8260B	
MB 240-514539/8	Method Blank	Total/NA	Water	8260B	
LCS 240-514539/5	Lab Control Sample	Total/NA	Water	8260B	
240-160208-6 MS	PW-16-01_111521	Total/NA	Water	8260B	
240-160208-6 MSD	PW-16-01_111521	Total/NA	Water	8260B	

# Lab Chronicle

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

Job ID: 240-160208-1

**Client Sample ID: TRIP BLANK\_128**

**Lab Sample ID: 240-160208-1**

Date Collected: 11/15/21 00:00

Matrix: Water

Date Received: 11/17/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	514355	11/24/21 08:15	LEE	TAL CAN

**Client Sample ID: MW-66\_111521**

**Lab Sample ID: 240-160208-2**

Date Collected: 11/15/21 10:01

Matrix: Water

Date Received: 11/17/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	514355	11/24/21 08:38	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	513930	11/19/21 20:25	CS	TAL CAN

**Client Sample ID: MW-44\_111521**

**Lab Sample ID: 240-160208-3**

Date Collected: 11/15/21 11:26

Matrix: Water

Date Received: 11/17/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		6.667	514335	11/23/21 23:53	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	513930	11/19/21 20:50	CS	TAL CAN

**Client Sample ID: MW-22\_111521**

**Lab Sample ID: 240-160208-4**

Date Collected: 11/15/21 13:06

Matrix: Water

Date Received: 11/17/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		33.333	514539	11/24/21 18:25	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	513930	11/19/21 21:15	CS	TAL CAN

**Client Sample ID: MW-23\_111521**

**Lab Sample ID: 240-160208-5**

Date Collected: 11/15/21 14:41

Matrix: Water

Date Received: 11/17/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		500	514335	11/24/21 00:41	SAM	TAL CAN
Total/NA	Analysis	8260B		1666.667	514539	11/24/21 18:48	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	513930	11/19/21 21:40	CS	TAL CAN

**Client Sample ID: PW-16-01\_111521**

**Lab Sample ID: 240-160208-6**

Date Collected: 11/15/21 16:06

Matrix: Water

Date Received: 11/17/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		16.667	514539	11/24/21 19:12	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	513930	11/19/21 22:04	CS	TAL CAN

**Laboratory References:**

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

Eurofins TestAmerica, Canton

# Accreditation/Certification Summary

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

Job ID: 240-160208-1

## 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 # : 100208  
**Canton Facility**

Client Arceadis Site Name \_\_\_\_\_ Cooler unpacked by Trent  
Cooler Received on 11/17/21 Opened on 11/17/21  
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 # 781 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 0.2 °C Corrected Cooler Temp. 0.3 °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 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)? 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  
15. Were air bubbles >6 mm in any VOA vials? Yes  Larger than this Yes No NA  
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 01042016 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 \_\_\_\_\_  
No SIM on TB per corrected COC. One 11/17/21

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