

## ANALYTICAL REPORT

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Tel: (330)497-9396

Laboratory Job ID: 240-139954-1  
Client Project/Site: Ford LTP - Off Site

For:  
ARCADIS U.S., Inc.  
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Novi, Michigan 48377

Attn: Kristoffer Hinskey



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Authorized for release by:  
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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 - Off Site

Job ID: 240-139954-1

## 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: 240-139954-1

**Job ID: 240-139954-1**

**Laboratory: Eurofins TestAmerica, Canton**

**Narrative**

## CASE NARRATIVE

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

**Project: Ford LTP - Off Site**

**Report Number: 240-139954-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Eurofins TestAmerica, Canton attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

### **RECEIPT**

The samples were received on 11/11/2020 9:15 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.8° C and 2.9° C.

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

Samples TRIP BLANK (240-139954-1), MW-86S\_110520 (240-139954-2) and MW-86\_110520 (240-139954-3) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/19/2020.

The continuing calibration verification (CCV) for analytical batch 461641 exceeded control criteria for multiple compounds. The samples associated with this CCV were non-detect for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required: TRIP BLANK (240-139954-1), MW-86S\_110520 (240-139954-2), MW-86\_110520 (240-139954-3), MW-86-MS\_110520 (240-139954-3[MS]) and MW-86-MSD\_110520 (240-139954-3[MSD]).

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

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

Samples MW-86S\_110520 (240-139954-2) and MW-86\_110520 (240-139954-3) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 11/16/2020.

# Case Narrative

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

Job ID: 240-139954-1

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## Job ID: 240-139954-1 (Continued)

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### Laboratory: Eurofins TestAmerica, Canton (Continued)

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

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# Method Summary

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

Job ID: 240-139954-1

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: 240-139954-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-139954-1	TRIP BLANK	Water	11/05/20 00:00	11/11/20 09:15	
240-139954-2	MW-86S_110520	Water	11/05/20 13:01	11/11/20 09:15	
240-139954-3	MW-86_110520	Water	11/05/20 14:01	11/11/20 09:15	

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

# Detection Summary

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

Job ID: 240-139954-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-139954-1**

No Detections.

**Client Sample ID: MW-86S\_110520**

**Lab Sample ID: 240-139954-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.11	J	1.0	0.10	ug/L	1		8260B	Total/NA

**Client Sample ID: MW-86\_110520**

**Lab Sample ID: 240-139954-3**

No Detections.

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: 240-139954-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-139954-1**

**Date Collected: 11/05/20 00:00**

**Matrix: Water**

**Date Received: 11/11/20 09:15**

**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			11/19/20 05:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/19/20 05:43	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/19/20 05:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/19/20 05:43	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/19/20 05:43	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/19/20 05:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 130		11/19/20 05:43	1
4-Bromofluorobenzene (Surr)	76		47 - 134		11/19/20 05:43	1
Toluene-d8 (Surr)	98		69 - 122		11/19/20 05:43	1
Dibromofluoromethane (Surr)	91		78 - 129		11/19/20 05:43	1

# Client Sample Results

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

Job ID: 240-139954-1

**Client Sample ID: MW-86S\_110520**

**Lab Sample ID: 240-139954-2**

Date Collected: 11/05/20 13:01

Matrix: Water

Date Received: 11/11/20 09:15

**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			11/16/20 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		70 - 133		11/16/20 13:41	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			11/19/20 06:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/19/20 06:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/19/20 06:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/19/20 06:05	1
<b>Trichloroethene</b>	<b>0.11</b>	<b>J</b>	1.0	0.10	ug/L			11/19/20 06:05	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/19/20 06:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		75 - 130		11/19/20 06:05	1
4-Bromofluorobenzene (Surr)	75		47 - 134		11/19/20 06:05	1
Toluene-d8 (Surr)	95		69 - 122		11/19/20 06:05	1
Dibromofluoromethane (Surr)	100		78 - 129		11/19/20 06:05	1

# Client Sample Results

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

Job ID: 240-139954-1

**Client Sample ID: MW-86\_110520**

**Lab Sample ID: 240-139954-3**

Date Collected: 11/05/20 14:01

Matrix: Water

Date Received: 11/11/20 09:15

**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			11/16/20 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 133		11/16/20 14:05	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			11/19/20 06:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/19/20 06:26	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/19/20 06:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/19/20 06:26	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/19/20 06:26	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/19/20 06:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		75 - 130		11/19/20 06:26	1
4-Bromofluorobenzene (Surr)	74		47 - 134		11/19/20 06:26	1
Toluene-d8 (Surr)	96		69 - 122		11/19/20 06:26	1
Dibromofluoromethane (Surr)	94		78 - 129		11/19/20 06:26	1

# Surrogate Summary

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

Job ID: 240-139954-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	TOL	DBFM
		(75-130)	(47-134)	(69-122)	(78-129)
240-139954-1	TRIP BLANK	114	76	98	91
240-139954-2	MW-86S_110520	116	75	95	100
240-139954-3	MW-86_110520	115	74	96	94
240-139954-3 MS	MW-86-MS_110520	97	102	109	82
240-139954-3 MSD	MW-86-MSD_110520	97	101	105	82
LCS 240-461641/4	Lab Control Sample	99	98	105	85
MB 240-461641/7	Method Blank	111	78	99	89

#### 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)
240-139954-2	MW-86S_110520	108
240-139954-3	MW-86_110520	109
240-139954-3 MS	MW-86-MS_110520	111
240-139954-3 MSD	MW-86-MSD_110520	110
LCS 240-461111/4	Lab Control Sample	102
MB 240-461111/5	Method Blank	104

#### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-139954-1

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

**Lab Sample ID: MB 240-461641/7**  
**Matrix: Water**  
**Analysis Batch: 461641**

**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			11/18/20 23:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/18/20 23:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/18/20 23:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/18/20 23:25	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/18/20 23:25	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/18/20 23:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		75 - 130		11/18/20 23:25	1
4-Bromofluorobenzene (Surr)	78		47 - 134		11/18/20 23:25	1
Toluene-d8 (Surr)	99		69 - 122		11/18/20 23:25	1
Dibromofluoromethane (Surr)	89		78 - 129		11/18/20 23:25	1

**Lab Sample ID: LCS 240-461641/4**  
**Matrix: Water**  
**Analysis Batch: 461641**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	8.80		ug/L		88	73 - 129
cis-1,2-Dichloroethene	10.0	10.2		ug/L		102	75 - 124
Tetrachloroethene	10.0	8.56		ug/L		86	70 - 125
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	74 - 130
Trichloroethene	10.0	7.71		ug/L		77	71 - 121
Vinyl chloride	10.0	8.59		ug/L		86	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		75 - 130
4-Bromofluorobenzene (Surr)	98		47 - 134
Toluene-d8 (Surr)	105		69 - 122
Dibromofluoromethane (Surr)	85		78 - 129

**Lab Sample ID: 240-139954-3 MS**  
**Matrix: Water**  
**Analysis Batch: 461641**

**Client Sample ID: MW-86-MS\_110520**  
**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	6.86		ug/L		69	64 - 132
cis-1,2-Dichloroethene	1.0	U	10.0	8.88		ug/L		89	68 - 121
Tetrachloroethene	1.0	U	10.0	6.83		ug/L		68	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	8.23		ug/L		82	69 - 126
Trichloroethene	1.0	U	10.0	6.04		ug/L		60	56 - 124
Vinyl chloride	1.0	U	10.0	6.62		ug/L		66	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		75 - 130
4-Bromofluorobenzene (Surr)	102		47 - 134
Toluene-d8 (Surr)	109		69 - 122

# QC Sample Results

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

Job ID: 240-139954-1

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

**Lab Sample ID: 240-139954-3 MS**  
**Matrix: Water**  
**Analysis Batch: 461641**

**Client Sample ID: MW-86-MS\_110520**  
**Prep Type: Total/NA**

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	82		78 - 129

**Lab Sample ID: 240-139954-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 461641**

**Client Sample ID: MW-86-MSD\_110520**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
1,1-Dichloroethene	1.0	U	10.0	7.47		ug/L		75	64 - 132	9	35
cis-1,2-Dichloroethene	1.0	U	10.0	9.33		ug/L		93	68 - 121	5	35
Tetrachloroethene	1.0	U	10.0	7.21		ug/L		72	52 - 129	5	35
trans-1,2-Dichloroethene	1.0	U	10.0	9.11		ug/L		91	69 - 126	10	35
Trichloroethene	1.0	U	10.0	6.62		ug/L		66	56 - 124	9	35
Vinyl chloride	1.0	U	10.0	7.15		ug/L		71	49 - 136	8	35

  

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		75 - 130
4-Bromofluorobenzene (Surr)	101		47 - 134
Toluene-d8 (Surr)	105		69 - 122
Dibromofluoromethane (Surr)	82		78 - 129

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

**Lab Sample ID: MB 240-461111/5**  
**Matrix: Water**  
**Analysis Batch: 461111**

**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			11/16/20 11:12	1

  

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)	104		70 - 133		11/16/20 11:12	1			

**Lab Sample ID: LCS 240-461111/4**  
**Matrix: Water**  
**Analysis Batch: 461111**

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				Limits
1,4-Dioxane	10.0	11.4		ug/L		114	80 - 135

  

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 133

**Lab Sample ID: 240-139954-3 MS**  
**Matrix: Water**  
**Analysis Batch: 461111**

**Client Sample ID: MW-86-MS\_110520**  
**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				Limits
1,4-Dioxane	2.0	U	10.0	11.1		ug/L		111	46 - 170

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# QC Sample Results

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

Job ID: 240-139954-1

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	111		70 - 133

Lab Sample ID: 240-139954-3 MSD  
Matrix: Water  
Analysis Batch: 461111

Client Sample ID: MW-86-MSD\_110520  
Prep Type: Total/NA

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
1,4-Dioxane	2.0	U	10.0	11.5		ug/L		115	46 - 170	3	26

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	110		70 - 133

# QC Association Summary

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

Job ID: 240-139954-1

## GC/MS VOA

### Analysis Batch: 461111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-139954-2	MW-86S_110520	Total/NA	Water	8260B SIM	
240-139954-3	MW-86_110520	Total/NA	Water	8260B SIM	
MB 240-461111/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-461111/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-139954-3 MS	MW-86-MS_110520	Total/NA	Water	8260B SIM	
240-139954-3 MSD	MW-86-MSD_110520	Total/NA	Water	8260B SIM	

### Analysis Batch: 461641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-139954-1	TRIP BLANK	Total/NA	Water	8260B	
240-139954-2	MW-86S_110520	Total/NA	Water	8260B	
240-139954-3	MW-86_110520	Total/NA	Water	8260B	
MB 240-461641/7	Method Blank	Total/NA	Water	8260B	
LCS 240-461641/4	Lab Control Sample	Total/NA	Water	8260B	
240-139954-3 MS	MW-86-MS_110520	Total/NA	Water	8260B	
240-139954-3 MSD	MW-86-MSD_110520	Total/NA	Water	8260B	

# Lab Chronicle

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

Job ID: 240-139954-1

## Client Sample ID: TRIP BLANK

Lab Sample ID: 240-139954-1

Date Collected: 11/05/20 00:00

Matrix: Water

Date Received: 11/11/20 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	461641	11/19/20 05:43	LEE	TAL CAN

## Client Sample ID: MW-86S\_110520

Lab Sample ID: 240-139954-2

Date Collected: 11/05/20 13:01

Matrix: Water

Date Received: 11/11/20 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	461641	11/19/20 06:05	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	461111	11/16/20 13:41	SAM	TAL CAN

## Client Sample ID: MW-86\_110520

Lab Sample ID: 240-139954-3

Date Collected: 11/05/20 14:01

Matrix: Water

Date Received: 11/11/20 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	461641	11/19/20 06:26	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	461111	11/16/20 14:05	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: 240-139954-1

## 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	12-31-20
Minnesota	NELAP	OH00048	12-31-20
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	06-05-21
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	01-12-21
West Virginia DEP	State	210	12-31-20





Eurofins TestAmerica Canton Sample Receipt Form/Narrative

Login # : 139954

Canton Facility

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

Cooler unpacked by: \_\_\_\_\_

Cooler Received on 11-11-20 Opened on 11-12-20

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 # 77 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 +0.9 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C
  - IR GUN #IR-12 (CF +0.5 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 2
  - Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
  - Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
  - Were tamper/custody seals intact and uncompromised? Yes No NA

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)? 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# HC907861
- 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 MSJ
- 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # NA 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: \_\_\_\_\_

