

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-149329-1  
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:  
5/27/2021 11:14:38 AM

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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: 240-149329-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

# Case Narrative

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

Job ID: 240-149329-1

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## Job ID: 240-149329-1

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Laboratory: Eurofins TestAmerica, Canton

### Narrative

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Job Narrative  
240-149329-1

### Comments

No additional comments.

### Receipt

The samples were received on 5/13/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.3° 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: 240-149329-1

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: 240-149329-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-149329-1	TRIP BLANK_60	Water	05/11/21 00:00	05/13/21 08:00	
240-149329-2	MW-86_051121	Water	05/11/21 10:46	05/13/21 08:00	
240-149329-3	MW-86S_051121	Water	05/11/21 11:56	05/13/21 08:00	

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# Detection Summary

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

Job ID: 240-149329-1

**Client Sample ID: TRIP BLANK\_60**

**Lab Sample ID: 240-149329-1**

No Detections.

**Client Sample ID: MW-86\_051121**

**Lab Sample ID: 240-149329-2**

No Detections.

**Client Sample ID: MW-86S\_051121**

**Lab Sample ID: 240-149329-3**

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

# Client Sample Results

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

Job ID: 240-149329-1

**Client Sample ID: TRIP BLANK\_60**

**Lab Sample ID: 240-149329-1**

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

**Matrix: Water**

**Date Received: 05/13/21 08:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/20/21 17:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/20/21 17:34	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/20/21 17:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/20/21 17:34	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/20/21 17:34	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/20/21 17:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 130		05/20/21 17:34	1
4-Bromofluorobenzene (Surr)	106		47 - 134		05/20/21 17:34	1
Toluene-d8 (Surr)	110		69 - 122		05/20/21 17:34	1
Dibromofluoromethane (Surr)	117		78 - 129		05/20/21 17:34	1



# Client Sample Results

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

Job ID: 240-149329-1

**Client Sample ID: MW-86\_051121**

**Lab Sample ID: 240-149329-2**

**Date Collected: 05/11/21 10:46**

**Matrix: Water**

**Date Received: 05/13/21 08:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/18/21 19:28	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)	90		70 - 133					05/18/21 19:28	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			05/20/21 19:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/20/21 19:15	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/20/21 19:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/20/21 19:15	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/20/21 19:15	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/20/21 19:15	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)	104		75 - 130					05/20/21 19:15	1
4-Bromofluorobenzene (Surr)	95		47 - 134					05/20/21 19:15	1
Toluene-d8 (Surr)	102		69 - 122					05/20/21 19:15	1
Dibromofluoromethane (Surr)	105		78 - 129					05/20/21 19:15	1

# Client Sample Results

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

Job ID: 240-149329-1

**Client Sample ID: MW-86S\_051121**

**Lab Sample ID: 240-149329-3**

**Date Collected: 05/11/21 11:56**

**Matrix: Water**

**Date Received: 05/13/21 08:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/18/21 19:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 133		05/18/21 19:53	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			05/20/21 19:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/20/21 19:40	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/20/21 19:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/20/21 19:40	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/20/21 19:40	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/20/21 19:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 130		05/20/21 19:40	1
4-Bromofluorobenzene (Surr)	94		47 - 134		05/20/21 19:40	1
Toluene-d8 (Surr)	102		69 - 122		05/20/21 19:40	1
Dibromofluoromethane (Surr)	109		78 - 129		05/20/21 19:40	1

# Surrogate Summary

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

Job ID: 240-149329-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-130)	BFB (47-134)	TOL (69-122)	DBFM (78-129)
240-149329-1	TRIP BLANK_60	105	106	110	117
240-149329-2	MW-86_051121	104	95	102	105
240-149329-3	MW-86S_051121	100	94	102	109
240-149329-3 MS	MW-86S-MS_051121	103	103	104	104
240-149329-3 MSD	MW-86S-MSD_051121	107	106	109	110
LCS 240-486721/5	Lab Control Sample	106	102	107	115
MB 240-486721/7	Method Blank	109	98	106	111

#### 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)
240-149329-2	MW-86_051121	90
240-149329-3	MW-86S_051121	94
240-149329-3 MS	MW-86S-MS_051121	90
240-149329-3 MSD	MW-86S-MSD_051121	85
LCS 240-486344/4	Lab Control Sample	93
MB 240-486344/5	Method Blank	90

#### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-149329-1

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

**Lab Sample ID: MB 240-486721/7**  
**Matrix: Water**  
**Analysis Batch: 486721**

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/20/21 13:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/20/21 13:48	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/20/21 13:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/20/21 13:48	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/20/21 13:48	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/20/21 13:48	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	109		75 - 130		05/20/21 13:48	1
4-Bromofluorobenzene (Surr)	98		47 - 134		05/20/21 13:48	1
Toluene-d8 (Surr)	106		69 - 122		05/20/21 13:48	1
Dibromofluoromethane (Surr)	111		78 - 129		05/20/21 13:48	1

**Lab Sample ID: LCS 240-486721/5**  
**Matrix: Water**  
**Analysis Batch: 486721**

**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	27.3		ug/L		109	73 - 129
cis-1,2-Dichloroethene	25.0	28.1		ug/L		112	75 - 124
Tetrachloroethene	25.0	26.5		ug/L		106	70 - 125
trans-1,2-Dichloroethene	25.0	27.4		ug/L		110	74 - 130
Trichloroethene	25.0	26.7		ug/L		107	71 - 121
Vinyl chloride	25.0	24.3		ug/L		97	61 - 134

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	106		75 - 130
4-Bromofluorobenzene (Surr)	102		47 - 134
Toluene-d8 (Surr)	107		69 - 122
Dibromofluoromethane (Surr)	115		78 - 129

**Lab Sample ID: 240-149329-3 MS**  
**Matrix: Water**  
**Analysis Batch: 486721**

**Client Sample ID: MW-86S-MS\_051121**  
**Prep Type: Total/NA**

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	1.0	U	25.0	25.6		ug/L		102	64 - 132
cis-1,2-Dichloroethene	1.0	U	25.0	25.9		ug/L		104	68 - 121
Tetrachloroethene	1.0	U	25.0	26.9		ug/L		107	52 - 129
trans-1,2-Dichloroethene	1.0	U	25.0	25.9		ug/L		104	69 - 126
Trichloroethene	1.0	U	25.0	25.6		ug/L		103	56 - 124
Vinyl chloride	1.0	U	25.0	24.6		ug/L		98	49 - 136

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		75 - 130
4-Bromofluorobenzene (Surr)	103		47 - 134
Toluene-d8 (Surr)	104		69 - 122

# QC Sample Results

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

Job ID: 240-149329-1

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

Lab Sample ID: 240-149329-3 MS  
Matrix: Water  
Analysis Batch: 486721

Client Sample ID: MW-86S-MS\_051121  
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	104		78 - 129

Lab Sample ID: 240-149329-3 MSD  
Matrix: Water  
Analysis Batch: 486721

Client Sample ID: MW-86S-MSD\_051121  
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	26.0		ug/L		104	64 - 132	1	35
cis-1,2-Dichloroethene	1.0	U	25.0	26.6		ug/L		106	68 - 121	3	35
Tetrachloroethene	1.0	U	25.0	26.3		ug/L		105	52 - 129	2	35
trans-1,2-Dichloroethene	1.0	U	25.0	26.7		ug/L		107	69 - 126	3	35
Trichloroethene	1.0	U	25.0	26.4		ug/L		106	56 - 124	3	35
Vinyl chloride	1.0	U	25.0	25.8		ug/L		103	49 - 136	5	35

  

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		75 - 130
4-Bromofluorobenzene (Surr)	106		47 - 134
Toluene-d8 (Surr)	109		69 - 122
Dibromofluoromethane (Surr)	110		78 - 129

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

Lab Sample ID: MB 240-486344/5  
Matrix: Water  
Analysis Batch: 486344

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			05/18/21 14:01	1

  

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 133		05/18/21 14:01	1

Lab Sample ID: LCS 240-486344/4  
Matrix: Water  
Analysis Batch: 486344

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	10.2		ug/L		102	80 - 135

  

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 133

Lab Sample ID: 240-149329-3 MS  
Matrix: Water  
Analysis Batch: 486344

Client Sample ID: MW-86S-MS\_051121  
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

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# QC Sample Results

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

Job ID: 240-149329-1

## 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)	90		70 - 133

**Lab Sample ID: 240-149329-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 486344**

**Client Sample ID: MW-86S-MSD\_051121**  
**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	10.2		ug/L		102	46 - 170	1	26

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	85		70 - 133

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# QC Association Summary

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

Job ID: 240-149329-1

## GC/MS VOA

### Analysis Batch: 486344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149329-2	MW-86_051121	Total/NA	Water	8260B SIM	
240-149329-3	MW-86S_051121	Total/NA	Water	8260B SIM	
MB 240-486344/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-486344/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-149329-3 MS	MW-86S-MS_051121	Total/NA	Water	8260B SIM	
240-149329-3 MSD	MW-86S-MSD_051121	Total/NA	Water	8260B SIM	

### Analysis Batch: 486721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149329-1	TRIP BLANK_60	Total/NA	Water	8260B	
240-149329-2	MW-86_051121	Total/NA	Water	8260B	
240-149329-3	MW-86S_051121	Total/NA	Water	8260B	
MB 240-486721/7	Method Blank	Total/NA	Water	8260B	
LCS 240-486721/5	Lab Control Sample	Total/NA	Water	8260B	
240-149329-3 MS	MW-86S-MS_051121	Total/NA	Water	8260B	
240-149329-3 MSD	MW-86S-MSD_051121	Total/NA	Water	8260B	

# Lab Chronicle

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

Job ID: 240-149329-1

**Client Sample ID: TRIP BLANK\_60**

**Lab Sample ID: 240-149329-1**

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

**Matrix: Water**

**Date Received: 05/13/21 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	486721	05/20/21 17:34	SAM	TAL CAN

**Client Sample ID: MW-86\_051121**

**Lab Sample ID: 240-149329-2**

**Date Collected: 05/11/21 10:46**

**Matrix: Water**

**Date Received: 05/13/21 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	486721	05/20/21 19:15	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	486344	05/18/21 19:28	CS	TAL CAN

**Client Sample ID: MW-86S\_051121**

**Lab Sample ID: 240-149329-3**

**Date Collected: 05/11/21 11:56**

**Matrix: Water**

**Date Received: 05/13/21 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	486721	05/20/21 19:40	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	486344	05/18/21 19:53	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: 240-149329-1

## 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	02-23-21 *
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-22
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.



1-2113

# Chain of Custody Record

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# MICHIGAN

# T90

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

Regulatory program:  DW  NPDES  RCRA  Other

TestAmerica Laboratories, Inc.  
COC No:

Client Contact: Arcadis  
Address: 28550 Cabot Drive, Suite 500  
City/State/Zip: Novi, MI, 48377  
Phone: 248-994-2240  
Project Name: Ford LTP Off-Site  
Project Number: 30080642.402.04  
PO # 30080642.402.04

Lab Contact: Mike DeMonico  
Telephone: 330-497-9396  
Site Contact: Julia McCafferty  
Telephone: 734-644-5131  
Email: kristoffer.hinsky@arcadis.com

Sampler Name: Gary Seiber  
Method of Shipment/Carrier:  
Shipping/Tracking No:

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

Containers & Preservatives  
Matrix:  Air  Aqueous  Sediment  Solid  Other

Sample Identification	Sample Date	Sample Time	Matrix						Filtered Sample (Y/N)	Analyses						Sample Specific Notes / Special Instructions:
			HSO4	HNO3	HCl	NaOH	NaOH	Other		Composite C / Grab G	1,1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	
Trip Blank - 60	---	---							NG	X	X	X	X	X	X	1 Trip Blank
MW-86-051121	05/11/21	10:46							NG	X	X	X	X	X	X	3 VOAs for 8260B 3 VOAs for 8260B SIM
MW-865-051121	05/11/21	11:56							NG	X	X	X	X	X	X	
MW-865-MS-051121									NG	X	X	X	X	X	X	RUO MS/MSD
MW-865-MSD-051121									NG	X	X	X	X	X	X	RUO MS/MSD



Possible Hazard Identification:  Non-Hazard  Flammable  Irritant  Poison B  Unknown

Special Instructions/QC Requirements & Comments: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return to Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631  
Level IV Reporting requested.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
<i>Gary Seiber</i>	Arcadis	05/11/21 1525	NOVI GOLD STORAGE	ARCADIS	5/11/21 1525
<i>Michael Turner</i>	ARCADIS	5/11/21 0950	<i>Donna Petrella</i>	ETA	5/21/21 951
<i>Edward Butcher</i>	ETA	5/21/21 1337	<i>Edward Butcher</i>	ETA	5-13-21 0800

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

Login # : 149329

Client Arcadis Site Name Ford LTP

Cooler unpacked by:

Cooler Received on 5-13-21 Opened on 5-13-21

me

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

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

TestAmerica Cooler # TA Foam Box \_\_\_\_\_ Client Cooler \_\_\_\_\_ Box \_\_\_\_\_ Other \_\_\_\_\_

Packing material used: Bubble Wrap Foam Plastic Bag \_\_\_\_\_ None \_\_\_\_\_ Other \_\_\_\_\_

COOLANT: Wet Ice Blue Ice \_\_\_\_\_ Dry Ice \_\_\_\_\_ Water \_\_\_\_\_ None \_\_\_\_\_

1. Cooler temperature upon receipt  See Multiple Cooler Form  
 IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. 1.2 °C Corrected Cooler Temp. 1.3 °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 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# HC022887

14. Were VOAs on the COC? Yes No

15. Were air bubbles >6 mm in any VOA vials?  ← Larger than this. Yes No NA

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

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