

## ANALYTICAL REPORT

Eurofins Canton  
180 S. Van Buren Avenue  
Barberton, OH 44203  
Tel: (330)497-9396

Laboratory Job ID: 240-162733-1  
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:  
2/28/2022 9:52:00 AM

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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: 240-162733-1

## 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: 240-162733-1

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**Job ID: 240-162733-1**

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**Laboratory: Eurofins Canton**

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**Narrative**

**Job Narrative  
240-162733-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 2/16/2022 10:20 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.0° C and 5.1° C.

**GC/MS VOA**

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

**VOA Prep**

No additional 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: 240-162733-1

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 Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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# Sample Summary

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

Job ID: 240-162733-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-162733-1	TRIP BLANK_138	Water	02/14/22 00:00	02/16/22 10:20
240-162733-2	MW-86S_021422	Water	02/14/22 09:45	02/16/22 10:20
240-162733-3	MW-86_021422	Water	02/14/22 11:33	02/16/22 10:20

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# Detection Summary

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

Job ID: 240-162733-1

**Client Sample ID: TRIP BLANK\_138**

**Lab Sample ID: 240-162733-1**

No Detections.

**Client Sample ID: MW-86S\_021422**

**Lab Sample ID: 240-162733-2**

No Detections.

**Client Sample ID: MW-86\_021422**

**Lab Sample ID: 240-162733-3**

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Canton

# Client Sample Results

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

Job ID: 240-162733-1

**Client Sample ID: TRIP BLANK\_138**

**Lab Sample ID: 240-162733-1**

**Date Collected: 02/14/22 00:00**

**Matrix: Water**

**Date Received: 02/16/22 10:20**

**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			02/17/22 15:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/17/22 15:16	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/17/22 15:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/17/22 15:16	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/17/22 15:16	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/17/22 15:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137		02/17/22 15:16	1
4-Bromofluorobenzene (Surr)	100		56 - 136		02/17/22 15:16	1
Toluene-d8 (Surr)	105		78 - 122		02/17/22 15:16	1
Dibromofluoromethane (Surr)	107		73 - 120		02/17/22 15:16	1



# Client Sample Results

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

Job ID: 240-162733-1

**Client Sample ID: MW-86S\_021422**

**Lab Sample ID: 240-162733-2**

**Date Collected: 02/14/22 09:45**

**Matrix: Water**

**Date Received: 02/16/22 10:20**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/21/22 19:55	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)	79		66 - 120					02/21/22 19:55	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			02/17/22 19:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/17/22 19:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/17/22 19:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/17/22 19:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/17/22 19:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/17/22 19:13	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)	93		62 - 137					02/17/22 19:13	1
4-Bromofluorobenzene (Surr)	93		56 - 136					02/17/22 19:13	1
Toluene-d8 (Surr)	99		78 - 122					02/17/22 19:13	1
Dibromofluoromethane (Surr)	103		73 - 120					02/17/22 19:13	1

# Client Sample Results

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

Job ID: 240-162733-1

**Client Sample ID: MW-86\_021422**

**Lab Sample ID: 240-162733-3**

Date Collected: 02/14/22 11:33

Matrix: Water

Date Received: 02/16/22 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/21/22 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		66 - 120					02/21/22 21:15	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			02/17/22 19:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/17/22 19:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/17/22 19:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/17/22 19:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/17/22 19:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/17/22 19:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137					02/17/22 19:37	1
4-Bromofluorobenzene (Surr)	94		56 - 136					02/17/22 19:37	1
Toluene-d8 (Surr)	100		78 - 122					02/17/22 19:37	1
Dibromofluoromethane (Surr)	103		73 - 120					02/17/22 19:37	1

# Surrogate Summary

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

Job ID: 240-162733-1

## 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)
240-162733-1	TRIP BLANK_138	96	100	105	107
240-162733-2	MW-86S_021422	93	93	99	103
240-162733-2 MS	MW-86S-MS_021422	88	92	97	95
240-162733-2 MSD	MW-86S-MSD_021422	85	94	96	95
240-162733-3	MW-86_021422	94	94	100	103
LCS 240-518235/5	Lab Control Sample	97	105	105	106
MB 240-518235/7	Method Blank	97	101	108	107

#### 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)
240-162733-2	MW-86S_021422	79
240-162733-2 MS	MW-86S-MS_021422	80
240-162733-2 MSD	MW-86S-MSD_021422	80
240-162733-3	MW-86_021422	79
LCS 240-518425/3	Lab Control Sample	80
MB 240-518425/4	Method Blank	79

#### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-162733-1

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

**Lab Sample ID: MB 240-518235/7**  
**Matrix: Water**  
**Analysis Batch: 518235**

**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	0.49	ug/L			02/17/22 12:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/17/22 12:06	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/17/22 12:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/17/22 12:06	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/17/22 12:06	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/17/22 12:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137		02/17/22 12:06	1
4-Bromofluorobenzene (Surr)	101		56 - 136		02/17/22 12:06	1
Toluene-d8 (Surr)	108		78 - 122		02/17/22 12:06	1
Dibromofluoromethane (Surr)	107		73 - 120		02/17/22 12:06	1

**Lab Sample ID: LCS 240-518235/5**  
**Matrix: Water**  
**Analysis Batch: 518235**

**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	26.8		ug/L		107	63 - 134
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	77 - 123
Tetrachloroethene	25.0	25.9		ug/L		103	76 - 123
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	75 - 124
Trichloroethene	25.0	24.7		ug/L		99	70 - 122
Vinyl chloride	25.0	22.2		ug/L		89	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	105		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	106		73 - 120

**Lab Sample ID: 240-162733-2 MS**  
**Matrix: Water**  
**Analysis Batch: 518235**

**Client Sample ID: MW-86S-MS\_021422**  
**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	25.0	23.1		ug/L		92	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	22.0		ug/L		88	66 - 128
Tetrachloroethene	1.0	U	25.0	24.0		ug/L		96	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	22.1		ug/L		89	56 - 136
Trichloroethene	1.0	U	25.0	21.9		ug/L		88	61 - 124
Vinyl chloride	1.0	U	25.0	19.8		ug/L		79	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		62 - 137
4-Bromofluorobenzene (Surr)	92		56 - 136
Toluene-d8 (Surr)	97		78 - 122

# QC Sample Results

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

Job ID: 240-162733-1

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

Lab Sample ID: 240-162733-2 MS  
Matrix: Water  
Analysis Batch: 518235

Client Sample ID: MW-86S-MS\_021422  
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	95		73 - 120

Lab Sample ID: 240-162733-2 MSD  
Matrix: Water  
Analysis Batch: 518235

Client Sample ID: MW-86S-MSD\_021422  
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	24.8		ug/L		99	56 - 135	7	26
cis-1,2-Dichloroethene	1.0	U	25.0	22.8		ug/L		91	66 - 128	3	14
Tetrachloroethene	1.0	U	25.0	25.0		ug/L		100	62 - 131	4	20
trans-1,2-Dichloroethene	1.0	U	25.0	22.5		ug/L		90	56 - 136	2	15
Trichloroethene	1.0	U	25.0	22.6		ug/L		90	61 - 124	3	15
Vinyl chloride	1.0	U	25.0	21.1		ug/L		84	43 - 157	6	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		62 - 137
4-Bromofluorobenzene (Surr)	94		56 - 136
Toluene-d8 (Surr)	96		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

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

Lab Sample ID: MB 240-518425/4  
Matrix: Water  
Analysis Batch: 518425

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			02/21/22 16:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		66 - 120		02/21/22 16:47	1

Lab Sample ID: LCS 240-518425/3  
Matrix: Water  
Analysis Batch: 518425

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	9.85		ug/L		99	80 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		66 - 120

Lab Sample ID: 240-162733-2 MS  
Matrix: Water  
Analysis Batch: 518425

Client Sample ID: MW-86S-MS\_021422  
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	10.4		ug/L		104	51 - 153

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# QC Sample Results

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

Job ID: 240-162733-1

## 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)	80		66 - 120

Lab Sample ID: 240-162733-2 MSD  
 Matrix: Water  
 Analysis Batch: 518425

Client Sample ID: MW-86S-MSD\_021422  
 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	10.7		ug/L		107	51 - 153	3	16

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	80		66 - 120

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# QC Association Summary

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

Job ID: 240-162733-1

## GC/MS VOA

### Analysis Batch: 518235

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-162733-1	TRIP BLANK_138	Total/NA	Water	8260B	
240-162733-2	MW-86S_021422	Total/NA	Water	8260B	
240-162733-3	MW-86_021422	Total/NA	Water	8260B	
MB 240-518235/7	Method Blank	Total/NA	Water	8260B	
LCS 240-518235/5	Lab Control Sample	Total/NA	Water	8260B	
240-162733-2 MS	MW-86S-MS_021422	Total/NA	Water	8260B	
240-162733-2 MSD	MW-86S-MSD_021422	Total/NA	Water	8260B	

### Analysis Batch: 518425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-162733-2	MW-86S_021422	Total/NA	Water	8260B SIM	
240-162733-3	MW-86_021422	Total/NA	Water	8260B SIM	
MB 240-518425/4	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-518425/3	Lab Control Sample	Total/NA	Water	8260B SIM	
240-162733-2 MS	MW-86S-MS_021422	Total/NA	Water	8260B SIM	
240-162733-2 MSD	MW-86S-MSD_021422	Total/NA	Water	8260B SIM	

# Lab Chronicle

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

Job ID: 240-162733-1

**Client Sample ID: TRIP BLANK\_138**

**Lab Sample ID: 240-162733-1**

Date Collected: 02/14/22 00:00

Matrix: Water

Date Received: 02/16/22 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	518235	02/17/22 15:16	SAM	TAL CAN

**Client Sample ID: MW-86S\_021422**

**Lab Sample ID: 240-162733-2**

Date Collected: 02/14/22 09:45

Matrix: Water

Date Received: 02/16/22 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	518235	02/17/22 19:13	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	518425	02/21/22 19:55	CS	TAL CAN

**Client Sample ID: MW-86\_021422**

**Lab Sample ID: 240-162733-3**

Date Collected: 02/14/22 11:33

Matrix: Water

Date Received: 02/16/22 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	518235	02/17/22 19:37	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	518425	02/21/22 21:15	CS	TAL CAN

**Laboratory References:**

TAL CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396



# Accreditation/Certification Summary

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

Job ID: 240-162733-1

## Laboratory: Eurofins 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	12-31-22
Minnesota	NELAP	039-999-348	12-31-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	11-06-22
New York	NELAP	10975	03-31-22
Ohio	State	8303	02-23-23
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-21-14	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

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

Eurofins Canton

**Chain of Custody Record**

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

<b>Client Contact</b> Company Name: Arcadis Address: 28550 Cabot Drive, Suite 500 City/State/Zip: Novi, MI, 48377 Phone: 248-994-2240		<b>Regulatory program:</b> <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other	
<b>Client Project Manager:</b> Kris Hinskey Telephone: 248-994-2240 Email: kristoffer.hinskey@arcadis.com		<b>Lab Contact:</b> Mike DeMonico Telephone: 330-497-9396	
<b>Project Name:</b> Ford LTP Off-Site Project Number: 30080642-402-04 PO # 30080642-402-04		<b>Analysis Turnaround Time</b> TAT (if different from below) <input type="checkbox"/> 3 weeks <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day <b>10 day</b>	
<b>Sampler Name:</b> Dunc Harmon		<b>Containers &amp; Preservatives</b> H2SO4 _____ HNO3 _____ HCl _____ NaOH _____ ZnAc _____ Tapes _____ Other: _____	
<b>Method of Shipment/Carrier:</b> Shipping/Tracking No:		<b>Matrix</b> Aqueous _____ Sediment _____ Solid _____ Other: _____	
<b>Sample Identification</b> TRIP BLANK_ 130 MW-865-021422 MW-865-MS-021422 MW-865-MSD-021422 MW-86-021422		<b>Filtered Sample (Y/N)</b> Composite C/Grab-G Cis-1,2-DCE 8260B Trans-1,2-DCE 8260B PCE 8260B TCE 8260B Vinyl Chloride 8260B 1,4-Dioxane 8260B SIM	
<b>Sample Date</b> --- 02/14/22 02/14/22 02/14/22 02/14/22		<b>Sample Time</b> --- 0945 0945 0945 11:33 AM	
<b>Possible Hazard Identification</b> <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Other		<b>Sample Disposal (A rec use, ...)</b> <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	
<b>Special Instructions/OC Requirements &amp; Comments:</b> Submit all results through Cadena at jtomalia@cadentec.com. Cadena #E203631 Level IV Reporting requested.			
<b>Relinquished by:</b> [Signature]		<b>Received by:</b> Nov. Cold Storage [Signature]	
<b>Relinquished by:</b> [Signature]		<b>Received by:</b> [Signature]	
<b>Relinquished by:</b> [Signature]		<b>Received by:</b> [Signature]	
Company: Arcadis Date/Time: 02/14/22 1545		Company: Arcadis Date/Time: 02/14/22 1515	
Company: Arcadis Date/Time: 2/15/22 1000		Company: EETA Date/Time: 2-15-22 1000	
Company: Arcadis Date/Time: 2-15-22 1255		Company: EETA Date/Time: 2-16-22 1026	



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

Login # : 142733

Client Arcadis Site Name \_\_\_\_\_ Cooler unpacked by: Matt  
 Cooler Received on 2-16-22 Opened on 2-16-22  
 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 # \_\_\_\_\_ 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. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °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  NA  
 -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  No  NA  ← Larger than this.
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

Tests that are not checked for pH by Receiving:

VOAs  
Oil and Grease  
TOC

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: \_\_\_\_\_

