

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-166351-1  
Client Project/Site: Ford LTP - Off Site

For:  
ARCADIS U.S., Inc.  
28550 Cabot Drive  
Suite 500  
Novi, Michigan 48377

Attn: Kristoffer Hinskey



Authorized for release by:  
5/25/2022 10:54:50 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: 240-166351-1

## 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: 240-166351-1

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**Job ID: 240-166351-1**

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**Laboratory: Eurofins Canton**

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**Narrative**

**Job Narrative  
240-166351-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 5/11/2022 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 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: 240-166351-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL CAN
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030C	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



# Sample Summary

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

Job ID: 240-166351-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-166351-1	TRIP BLANK_68	Water	05/09/22 00:00	05/11/22 08:00
240-166351-2	MW-133S_050922	Water	05/09/22 10:40	05/11/22 08:00
240-166351-3	MW-74_050922	Water	05/09/22 12:05	05/11/22 08:00
240-166351-4	MW-74S_050922	Water	05/09/22 12:55	05/11/22 08:00

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# Detection Summary

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

Job ID: 240-166351-1

**Client Sample ID: TRIP BLANK\_68**

**Lab Sample ID: 240-166351-1**

No Detections.

**Client Sample ID: MW-133S\_050922**

**Lab Sample ID: 240-166351-2**

No Detections.

**Client Sample ID: MW-74\_050922**

**Lab Sample ID: 240-166351-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.91	J	2.0	0.86	ug/L	1		8260D SIM	Total/NA
cis-1,2-Dichloroethene	0.70	J	1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	1.6		1.0	0.45	ug/L	1		8260D	Total/NA

**Client Sample ID: MW-74S\_050922**

**Lab Sample ID: 240-166351-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.96	J	1.0	0.46	ug/L	1		8260D	Total/NA

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: 240-166351-1

**Client Sample ID: TRIP BLANK\_68**

**Lab Sample ID: 240-166351-1**

**Date Collected: 05/09/22 00:00**

**Matrix: Water**

**Date Received: 05/11/22 08:00**

**Method: 8260D - Volatile Organic Compounds by 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			05/18/22 16:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/22 16:38	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 16:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/22 16:38	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 16:38	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/22 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137		05/18/22 16:38	1
4-Bromofluorobenzene (Surr)	103		56 - 136		05/18/22 16:38	1
Toluene-d8 (Surr)	95		78 - 122		05/18/22 16:38	1
Dibromofluoromethane (Surr)	111		73 - 120		05/18/22 16:38	1



# Client Sample Results

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

Job ID: 240-166351-1

**Client Sample ID: MW-133S\_050922**

**Lab Sample ID: 240-166351-2**

Date Collected: 05/09/22 10:40

Matrix: Water

Date Received: 05/11/22 08:00

**Method: 8260D 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			05/14/22 03:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		66 - 120		05/14/22 03:15	1

**Method: 8260D - Volatile Organic Compounds by 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			05/18/22 17:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/22 17:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 17:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/22 17:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 17:03	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/22 17:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137		05/18/22 17:03	1
4-Bromofluorobenzene (Surr)	102		56 - 136		05/18/22 17:03	1
Toluene-d8 (Surr)	95		78 - 122		05/18/22 17:03	1
Dibromofluoromethane (Surr)	112		73 - 120		05/18/22 17:03	1

# Client Sample Results

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

Job ID: 240-166351-1

**Client Sample ID: MW-74\_050922**

**Lab Sample ID: 240-166351-3**

Date Collected: 05/09/22 12:05

Matrix: Water

Date Received: 05/11/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.91	J	2.0	0.86	ug/L			05/14/22 03:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		66 - 120					05/14/22 03:39	1

**Method: 8260D - Volatile Organic Compounds by 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			05/18/22 17:28	1
cis-1,2-Dichloroethene	0.70	J	1.0	0.46	ug/L			05/18/22 17:28	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 17:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/22 17:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 17:28	1
Vinyl chloride	1.6		1.0	0.45	ug/L			05/18/22 17:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137					05/18/22 17:28	1
4-Bromofluorobenzene (Surr)	101		56 - 136					05/18/22 17:28	1
Toluene-d8 (Surr)	93		78 - 122					05/18/22 17:28	1
Dibromofluoromethane (Surr)	109		73 - 120					05/18/22 17:28	1

# Client Sample Results

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

Job ID: 240-166351-1

**Client Sample ID: MW-74S\_050922**

**Lab Sample ID: 240-166351-4**

Date Collected: 05/09/22 12:55

Matrix: Water

Date Received: 05/11/22 08:00

**Method: 8260D 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			05/14/22 04:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		66 - 120					05/14/22 04:02	1

**Method: 8260D - Volatile Organic Compounds by 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			05/18/22 17:53	1
<b>cis-1,2-Dichloroethene</b>	<b>0.96</b>	<b>J</b>	1.0	0.46	ug/L			05/18/22 17:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 17:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/22 17:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 17:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/22 17:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137					05/18/22 17:53	1
4-Bromofluorobenzene (Surr)	104		56 - 136					05/18/22 17:53	1
Toluene-d8 (Surr)	96		78 - 122					05/18/22 17:53	1
Dibromofluoromethane (Surr)	112		73 - 120					05/18/22 17:53	1

# Surrogate Summary

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

Job ID: 240-166351-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (62-137)	BFB (56-136)	TOL (78-122)	DBFM (73-120)
240-166329-F-5 MS	Matrix Spike	93	109	101	99
240-166329-I-5 MSD	Matrix Spike Duplicate	91	108	99	99
240-166351-1	TRIP BLANK_68	107	103	95	111
240-166351-2	MW-133S_050922	107	102	95	112
240-166351-3	MW-74_050922	106	101	93	109
240-166351-4	MW-74S_050922	107	104	96	112
LCS 240-526882/5	Lab Control Sample	89	108	100	97
MB 240-526882/8	Method Blank	103	103	95	111

**Surrogate Legend**

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (66-120)
240-166341-G-2 MS	Matrix Spike	89
240-166341-M-2 MSD	Matrix Spike Duplicate	90
240-166351-2	MW-133S_050922	86
240-166351-3	MW-74_050922	88
240-166351-4	MW-74S_050922	88
LCS 240-526434/3	Lab Control Sample	86
MB 240-526434/4	Method Blank	88

**Surrogate Legend**

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

# QC Sample Results

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

Job ID: 240-166351-1

## Method: 8260D - Volatile Organic Compounds by GC/MS

**Lab Sample ID: MB 240-526882/8**  
**Matrix: Water**  
**Analysis Batch: 526882**

**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			05/18/22 10:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/18/22 10:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 10:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/18/22 10:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/18/22 10:26	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/18/22 10:26	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	103		62 - 137		05/18/22 10:26	1
4-Bromofluorobenzene (Surr)	103		56 - 136		05/18/22 10:26	1
Toluene-d8 (Surr)	95		78 - 122		05/18/22 10:26	1
Dibromofluoromethane (Surr)	111		73 - 120		05/18/22 10:26	1

**Lab Sample ID: LCS 240-526882/5**  
**Matrix: Water**  
**Analysis Batch: 526882**

**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	20.0	21.8		ug/L		109	63 - 134
cis-1,2-Dichloroethene	20.0	20.6		ug/L		103	77 - 123
Tetrachloroethene	20.0	20.2		ug/L		101	76 - 123
trans-1,2-Dichloroethene	20.0	21.3		ug/L		106	75 - 124
Trichloroethene	20.0	20.0		ug/L		100	70 - 122
Vinyl chloride	20.0	15.1		ug/L		76	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	89		62 - 137
4-Bromofluorobenzene (Surr)	108		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

**Lab Sample ID: 240-166329-F-5 MS**  
**Matrix: Water**  
**Analysis Batch: 526882**

**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	1.0	U	20.0	22.1		ug/L		110	56 - 135
cis-1,2-Dichloroethene	35		20.0	51.1		ug/L		82	66 - 128
Tetrachloroethene	1.0	U	20.0	19.5		ug/L		97	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	20.6		ug/L		103	56 - 136
Trichloroethene	1.0	U	20.0	19.3		ug/L		97	61 - 124

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	109		56 - 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

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# QC Sample Results

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

Job ID: 240-166351-1

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

**Lab Sample ID: 240-166329-I-5 MSD**  
**Matrix: Water**  
**Analysis Batch: 526882**

**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	20.0	22.7		ug/L		113	56 - 135	3	26
cis-1,2-Dichloroethene	35		20.0	53.0		ug/L		91	66 - 128	3	14
Tetrachloroethene	1.0	U	20.0	20.1		ug/L		100	62 - 131	3	20
trans-1,2-Dichloroethene	1.0	U	20.0	21.7		ug/L		109	56 - 136	5	15
Trichloroethene	1.0	U	20.0	20.2		ug/L		101	61 - 124	4	15

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
4-Bromofluorobenzene (Surr)	108		56 - 136
Toluene-d8 (Surr)	99		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

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

**Lab Sample ID: MB 240-526434/4**  
**Matrix: Water**  
**Analysis Batch: 526434**

**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			05/13/22 20:29	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		66 - 120		05/13/22 20:29	1

**Lab Sample ID: LCS 240-526434/3**  
**Matrix: Water**  
**Analysis Batch: 526434**

**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	10.4		ug/L		104	80 - 122

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
1,2-Dichloroethane-d4 (Surr)	86		66 - 120

**Lab Sample ID: 240-166341-G-2 MS**  
**Matrix: Water**  
**Analysis Batch: 526434**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.0	U	10.0	10.4		ug/L		104	51 - 153

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	89		66 - 120

# QC Sample Results

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

Job ID: 240-166351-1

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

**Lab Sample ID: 240-166341-M-2 MSD**

**Client Sample ID: Matrix Spike Duplicate**

**Matrix: Water**

**Prep Type: Total/NA**

**Analysis Batch: 526434**

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	11.1		ug/L		111	51 - 153	7	16
<b>Surrogate</b>	<b>%Recovery</b>	<b>MSD Qualifier</b>	<b>MSD Limits</b>								
1,2-Dichloroethane-d4 (Surr)	90		66 - 120								

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# QC Association Summary

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

Job ID: 240-166351-1

## GC/MS VOA

### Analysis Batch: 526434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-166351-2	MW-133S_050922	Total/NA	Water	8260D SIM	
240-166351-3	MW-74_050922	Total/NA	Water	8260D SIM	
240-166351-4	MW-74S_050922	Total/NA	Water	8260D SIM	
MB 240-526434/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-526434/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-166341-G-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-166341-M-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

### Analysis Batch: 526882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-166351-1	TRIP BLANK_68	Total/NA	Water	8260D	
240-166351-2	MW-133S_050922	Total/NA	Water	8260D	
240-166351-3	MW-74_050922	Total/NA	Water	8260D	
240-166351-4	MW-74S_050922	Total/NA	Water	8260D	
MB 240-526882/8	Method Blank	Total/NA	Water	8260D	
LCS 240-526882/5	Lab Control Sample	Total/NA	Water	8260D	
240-166329-F-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-166329-I-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	



# Lab Chronicle

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

Job ID: 240-166351-1

**Client Sample ID: TRIP BLANK\_68**

**Lab Sample ID: 240-166351-1**

Date Collected: 05/09/22 00:00

Matrix: Water

Date Received: 05/11/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	526882	05/18/22 16:38	TJL1	TAL CAN

**Client Sample ID: MW-133S\_050922**

**Lab Sample ID: 240-166351-2**

Date Collected: 05/09/22 10:40

Matrix: Water

Date Received: 05/11/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	526882	05/18/22 17:03	TJL1	TAL CAN
Total/NA	Analysis	8260D SIM		1	526434	05/14/22 03:15	CS	TAL CAN

**Client Sample ID: MW-74\_050922**

**Lab Sample ID: 240-166351-3**

Date Collected: 05/09/22 12:05

Matrix: Water

Date Received: 05/11/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	526882	05/18/22 17:28	TJL1	TAL CAN
Total/NA	Analysis	8260D SIM		1	526434	05/14/22 03:39	CS	TAL CAN

**Client Sample ID: MW-74S\_050922**

**Lab Sample ID: 240-166351-4**

Date Collected: 05/09/22 12:55

Matrix: Water

Date Received: 05/11/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	526882	05/18/22 17:53	TJL1	TAL CAN
Total/NA	Analysis	8260D SIM		1	526434	05/14/22 04:02	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: 240-166351-1

## 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	02-27-23
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22 *
Illinois	NELAP	200004	07-31-22
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23
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	06-30-22
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-23-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-22-16	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

<b>Client Contact</b> Company Name: Arcadis Address: 28550 Cabot Drive, Suite 500 City/State/Zip: Nov4, MI, 48377 Phone: 248-994-2240 Project Name: Ford I.T.P Off-Site Project Number: 30080642-402.04 PO # 30080642-402.04		<b>Regulatory program:</b> <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other	
<b>Client Project Manager: Kris Hinskey</b> Telephone: 269-832-7478 Email: Kristoffer.Hinskey@arcadis.com		<b>Lab Contact: Mike DelMontico</b> Telephone: 330-966-9783	
<b>Sampler Name:</b> Stan Turnak	<b>Method of Shipment/Carrier:</b>	<b>Analyses Turnaround Time</b> TAT if different from below: 10 day <input checked="" type="checkbox"/> 3 weeks 1 week <input type="checkbox"/> 2 weeks 2 days <input type="checkbox"/> 1 day	
<b>Shipping/Tracking No:</b>	<b>Containers &amp; Preservatives</b> HCl <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> Other:	<b>Filtered Sample (Y/N)</b> Composite=C / Grab=C	
Sample Date	Sample Time	Matrix	Other:
Air	Aqueous	Sediment	Solid
5/19/22 MW-1335-050922 MW-74-050922 MW-745-050922 TRIP BLANK_68	1040 1205 1255	6 6 6	1
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant			
<b>Special Instructions/QC Requirements &amp; Comments:</b> Submit all results through Cadena at jtomalia@cadena.com. Cadena #E203631 Level IV Reporting requested.			
Date/Time: 5/19/22 1350 Date/Time: 5/10/22 1014 Date/Time: 5/11/22 1009			
Company: Arcadis Company: ARCADIS Company: EETNL			
Received by: NOVI Gold Storage Received by: [Signature] Received in Laboratory by: [Signature]			
Date/Time: 5/19/22/1350 Date/Time: 5/11/22 1009 Date/Time: 5-11-22 0800			
Company: Arcadis Company: EETNL Company: EETNL			



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**Eurofins TestAmerica Canton Sample Receipt Form/Narrative** Login # : 166351  
**Canton Facility**

Client ARCADIS Site Name 5-11-22 LTP Cooler unpacked by: JME

Cooler Received on 5-11-22 Opened on 5-11-22  
 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 # 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-13 (CF 0.0 °C) Observed Cooler Temp. 0.3 °C Corrected Cooler Temp. 0.3 °C  
 IR GUN #IR-15 (CF -0.7°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  
 -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)?  
 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 # Covered  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: \_\_\_\_\_