

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-149414-1  
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:  
5/28/2021 2:00:42 PM

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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: 240-149414-1

## 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: 240-149414-1

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## Job ID: 240-149414-1

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Laboratory: Eurofins TestAmerica, Canton

### Narrative

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Job Narrative  
240-149414-1

### Comments

No additional comments.

### Receipt

The samples were received on 5/14/2021 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 4.4° 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: 240-149414-1

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



# Sample Summary

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

Job ID: 240-149414-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-149414-1	TRIP BLANK_31	Water	05/12/21 00:00	05/14/21 08:00	
240-149414-2	MW-72_051221	Water	05/12/21 10:07	05/14/21 08:00	
240-149414-3	MW-72S_051221	Water	05/12/21 11:16	05/14/21 08:00	
240-149414-4	MW-73SR_051221	Water	05/12/21 12:37	05/14/21 08:00	
240-149414-5	MW-73D_051221	Water	05/12/21 14:00	05/14/21 08:00	
240-149414-6	MW-139S_051221	Water	05/12/21 15:16	05/14/21 08:00	
240-149414-7	DUP-09	Water	05/12/21 00:00	05/14/21 08:00	

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# Detection Summary

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

Job ID: 240-149414-1

## Client Sample ID: TRIP BLANK\_31

Lab Sample ID: 240-149414-1

No Detections.

## Client Sample ID: MW-72\_051221

Lab Sample ID: 240-149414-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.0		1.0	0.20	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-72S\_051221

Lab Sample ID: 240-149414-3

No Detections.

## Client Sample ID: MW-73SR\_051221

Lab Sample ID: 240-149414-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.7		1.0	0.16	ug/L	1		8260B	Total/NA
Trichloroethene	0.22	J	1.0	0.10	ug/L	1		8260B	Total/NA
Vinyl chloride	0.43	J	1.0	0.20	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-73D\_051221

Lab Sample ID: 240-149414-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.4		2.0	0.86	ug/L	1		8260B SIM	Total/NA

## Client Sample ID: MW-139S\_051221

Lab Sample ID: 240-149414-6

No Detections.

## Client Sample ID: DUP-09

Lab Sample ID: 240-149414-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.2		1.0	0.20	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

# Client Sample Results

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

Job ID: 240-149414-1

**Client Sample ID: TRIP BLANK\_31**

**Lab Sample ID: 240-149414-1**

**Date Collected: 05/12/21 00:00**

**Matrix: Water**

**Date Received: 05/14/21 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			05/25/21 15:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/25/21 15:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/25/21 15:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/25/21 15:25	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/25/21 15:25	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/25/21 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 130		05/25/21 15:25	1
4-Bromofluorobenzene (Surr)	90		47 - 134		05/25/21 15:25	1
Toluene-d8 (Surr)	98		69 - 122		05/25/21 15:25	1
Dibromofluoromethane (Surr)	102		78 - 129		05/25/21 15:25	1



# Client Sample Results

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

Job ID: 240-149414-1

**Client Sample ID: MW-72\_051221**

**Lab Sample ID: 240-149414-2**

**Date Collected: 05/12/21 10:07**

**Matrix: Water**

**Date Received: 05/14/21 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 21:51	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)	80		70 - 133					05/18/21 21:51	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			05/25/21 17:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/25/21 17:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/25/21 17:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/25/21 17:05	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/25/21 17:05	1
<b>Vinyl chloride</b>	<b>1.0</b>		1.0	0.20	ug/L			05/25/21 17:05	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)	105		75 - 130					05/25/21 17:05	1
4-Bromofluorobenzene (Surr)	88		47 - 134					05/25/21 17:05	1
Toluene-d8 (Surr)	100		69 - 122					05/25/21 17:05	1
Dibromofluoromethane (Surr)	106		78 - 129					05/25/21 17:05	1

# Client Sample Results

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

Job ID: 240-149414-1

**Client Sample ID: MW-72S\_051221**

**Lab Sample ID: 240-149414-3**

Date Collected: 05/12/21 11:16

Matrix: Water

Date Received: 05/14/21 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 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		70 - 133		05/18/21 22:16	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			05/25/21 17:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/25/21 17:30	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/25/21 17:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/25/21 17:30	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/25/21 17:30	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/25/21 17:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 130		05/25/21 17:30	1
4-Bromofluorobenzene (Surr)	92		47 - 134		05/25/21 17:30	1
Toluene-d8 (Surr)	103		69 - 122		05/25/21 17:30	1
Dibromofluoromethane (Surr)	102		78 - 129		05/25/21 17:30	1

# Client Sample Results

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

Job ID: 240-149414-1

**Client Sample ID: MW-73SR\_051221**

**Lab Sample ID: 240-149414-4**

Date Collected: 05/12/21 12:37

Matrix: Water

Date Received: 05/14/21 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 22:41	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)	80		70 - 133					05/18/21 22:41	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			05/25/21 17:55	1
<b>cis-1,2-Dichloroethene</b>	<b>1.7</b>		1.0	0.16	ug/L			05/25/21 17:55	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/25/21 17:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/25/21 17:55	1
<b>Trichloroethene</b>	<b>0.22</b>	<b>J</b>	1.0	0.10	ug/L			05/25/21 17:55	1
<b>Vinyl chloride</b>	<b>0.43</b>	<b>J</b>	1.0	0.20	ug/L			05/25/21 17:55	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)	110		75 - 130					05/25/21 17:55	1
4-Bromofluorobenzene (Surr)	90		47 - 134					05/25/21 17:55	1
Toluene-d8 (Surr)	101		69 - 122					05/25/21 17:55	1
Dibromofluoromethane (Surr)	107		78 - 129					05/25/21 17:55	1

# Client Sample Results

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

Job ID: 240-149414-1

**Client Sample ID: MW-73D\_051221**

**Lab Sample ID: 240-149414-5**

**Date Collected: 05/12/21 14:00**

**Matrix: Water**

**Date Received: 05/14/21 08:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.4		2.0	0.86	ug/L			05/18/21 23:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		70 - 133					05/18/21 23:06	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			05/25/21 18:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/25/21 18:20	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/25/21 18:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/25/21 18:20	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/25/21 18:20	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/25/21 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 130					05/25/21 18:20	1
4-Bromofluorobenzene (Surr)	92		47 - 134					05/25/21 18:20	1
Toluene-d8 (Surr)	98		69 - 122					05/25/21 18:20	1
Dibromofluoromethane (Surr)	108		78 - 129					05/25/21 18:20	1

# Client Sample Results

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

Job ID: 240-149414-1

**Client Sample ID: MW-139S\_051221**

**Lab Sample ID: 240-149414-6**

**Date Collected: 05/12/21 15:16**

**Matrix: Water**

**Date Received: 05/14/21 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 23:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		70 - 133					05/18/21 23:31	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			05/25/21 18:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/25/21 18:45	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/25/21 18:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/25/21 18:45	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/25/21 18:45	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/25/21 18:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 130					05/25/21 18:45	1
4-Bromofluorobenzene (Surr)	94		47 - 134					05/25/21 18:45	1
Toluene-d8 (Surr)	101		69 - 122					05/25/21 18:45	1
Dibromofluoromethane (Surr)	106		78 - 129					05/25/21 18:45	1

# Client Sample Results

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

Job ID: 240-149414-1

**Client Sample ID: DUP-09**  
**Date Collected: 05/12/21 00:00**  
**Date Received: 05/14/21 08:00**

**Lab Sample ID: 240-149414-7**  
**Matrix: Water**

**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 23:55	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)	84		70 - 133					05/18/21 23:55	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	0.19	ug/L			05/25/21 19:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/25/21 19:11	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/25/21 19:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/25/21 19:11	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/25/21 19:11	1
<b>Vinyl chloride</b>	<b>1.2</b>		1.0	0.20	ug/L			05/25/21 19:11	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)	112		75 - 130					05/25/21 19:11	1
4-Bromofluorobenzene (Surr)	94		47 - 134					05/25/21 19:11	1
Toluene-d8 (Surr)	100		69 - 122					05/25/21 19:11	1
Dibromofluoromethane (Surr)	109		78 - 129					05/25/21 19:11	1

# Surrogate Summary

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

Job ID: 240-149414-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-130)	BFB (47-134)	TOL (69-122)	DBFM (78-129)
240-149414-1	TRIP BLANK_31	103	90	98	102
240-149414-2	MW-72_051221	105	88	100	106
240-149414-3	MW-72S_051221	102	92	103	102
240-149414-4	MW-73SR_051221	110	90	101	107
240-149414-5	MW-73D_051221	105	92	98	108
240-149414-6	MW-139S_051221	106	94	101	106
240-149414-7	DUP-09	112	94	100	109
240-149436-C-8 MS	Matrix Spike	104	99	103	112
240-149436-C-8 MSD	Matrix Spike Duplicate	110	103	107	112
LCS 240-487431/5	Lab Control Sample	99	99	100	106
MB 240-487431/7	Method Blank	103	91	101	102

**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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (70-133)
240-149414-2	MW-72_051221	80
240-149414-3	MW-72S_051221	81
240-149414-4	MW-73SR_051221	80
240-149414-5	MW-73D_051221	79
240-149414-6	MW-139S_051221	79
240-149414-7	DUP-09	84
240-149470-H-4 MS	Matrix Spike	84
240-149470-N-4 MSD	Matrix Spike Duplicate	81
LCS 240-486375/4	Lab Control Sample	82
MB 240-486375/5	Method Blank	83

**Surrogate Legend**  
DCA = 1,2-Dichloroethane-d4 (Surr)

# QC Sample Results

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

Job ID: 240-149414-1

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

**Lab Sample ID: MB 240-487431/7**  
**Matrix: Water**  
**Analysis Batch: 487431**

**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			05/25/21 15:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/25/21 15:00	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/25/21 15:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/25/21 15:00	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/25/21 15:00	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/25/21 15:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 130		05/25/21 15:00	1
4-Bromofluorobenzene (Surr)	91		47 - 134		05/25/21 15:00	1
Toluene-d8 (Surr)	101		69 - 122		05/25/21 15:00	1
Dibromofluoromethane (Surr)	102		78 - 129		05/25/21 15:00	1

**Lab Sample ID: LCS 240-487431/5**  
**Matrix: Water**  
**Analysis Batch: 487431**

**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	24.0		ug/L		96	73 - 129
cis-1,2-Dichloroethene	25.0	27.3		ug/L		109	75 - 124
Tetrachloroethene	25.0	26.8		ug/L		107	70 - 125
trans-1,2-Dichloroethene	25.0	26.3		ug/L		105	74 - 130
Trichloroethene	25.0	25.9		ug/L		104	71 - 121
Vinyl chloride	25.0	22.0		ug/L		88	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		75 - 130
4-Bromofluorobenzene (Surr)	99		47 - 134
Toluene-d8 (Surr)	100		69 - 122
Dibromofluoromethane (Surr)	106		78 - 129

**Lab Sample ID: 240-149436-C-8 MS**  
**Matrix: Water**  
**Analysis Batch: 487431**

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	5.0	U	125	120		ug/L		96	64 - 132
cis-1,2-Dichloroethene	5.0	U	125	136		ug/L		109	68 - 121
Tetrachloroethene	5.0	U	125	120		ug/L		96	52 - 129
trans-1,2-Dichloroethene	5.0	U	125	131		ug/L		104	69 - 126
Trichloroethene	5.0	U	125	127		ug/L		102	56 - 124
Vinyl chloride	13		125	123		ug/L		88	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		75 - 130
4-Bromofluorobenzene (Surr)	99		47 - 134
Toluene-d8 (Surr)	103		69 - 122



# QC Sample Results

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

Job ID: 240-149414-1

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

**Lab Sample ID: 240-149436-C-8 MS**  
**Matrix: Water**  
**Analysis Batch: 487431**

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	112		78 - 129

**Lab Sample ID: 240-149436-C-8 MSD**  
**Matrix: Water**  
**Analysis Batch: 487431**

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

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier		Result	Qualifier				Limits		
1,1-Dichloroethene	5.0	U	125	124		ug/L		99	64 - 132	3	35
cis-1,2-Dichloroethene	5.0	U	125	139		ug/L		112	68 - 121	2	35
Tetrachloroethene	5.0	U	125	132		ug/L		105	52 - 129	9	35
trans-1,2-Dichloroethene	5.0	U	125	132		ug/L		105	69 - 126	1	35
Trichloroethene	5.0	U	125	130		ug/L		104	56 - 124	2	35
Vinyl chloride	13		125	130		ug/L		93	49 - 136	5	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		75 - 130
4-Bromofluorobenzene (Surr)	103		47 - 134
Toluene-d8 (Surr)	107		69 - 122
Dibromofluoromethane (Surr)	112		78 - 129

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

**Lab Sample ID: MB 240-486375/5**  
**Matrix: Water**  
**Analysis Batch: 486375**

**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			05/18/21 16:05	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)	83		70 - 133		05/18/21 16:05	1			

**Lab Sample ID: LCS 240-486375/4**  
**Matrix: Water**  
**Analysis Batch: 486375**

**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	10.5		ug/L		105	80 - 135

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		70 - 133

**Lab Sample ID: 240-149470-H-4 MS**  
**Matrix: Water**  
**Analysis Batch: 486375**

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier		Result	Qualifier				Limits
1,4-Dioxane	1.3	J	10.0	12.4		ug/L		111	46 - 170

Eurofins TestAmerica, Canton

# QC Sample Results

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

Job ID: 240-149414-1

## 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)	84		70 - 133

Lab Sample ID: 240-149470-N-4 MSD  
 Matrix: Water  
 Analysis Batch: 486375

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
1,4-Dioxane	1.3	J	10.0	11.5		ug/L		102	46 - 170	8	26

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	81		70 - 133

# QC Association Summary

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

Job ID: 240-149414-1

## GC/MS VOA

### Analysis Batch: 486375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149414-2	MW-72_051221	Total/NA	Water	8260B SIM	
240-149414-3	MW-72S_051221	Total/NA	Water	8260B SIM	
240-149414-4	MW-73SR_051221	Total/NA	Water	8260B SIM	
240-149414-5	MW-73D_051221	Total/NA	Water	8260B SIM	
240-149414-6	MW-139S_051221	Total/NA	Water	8260B SIM	
240-149414-7	DUP-09	Total/NA	Water	8260B SIM	
MB 240-486375/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-486375/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-149470-H-4 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-149470-N-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

### Analysis Batch: 487431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149414-1	TRIP BLANK_31	Total/NA	Water	8260B	
240-149414-2	MW-72_051221	Total/NA	Water	8260B	
240-149414-3	MW-72S_051221	Total/NA	Water	8260B	
240-149414-4	MW-73SR_051221	Total/NA	Water	8260B	
240-149414-5	MW-73D_051221	Total/NA	Water	8260B	
240-149414-6	MW-139S_051221	Total/NA	Water	8260B	
240-149414-7	DUP-09	Total/NA	Water	8260B	
MB 240-487431/7	Method Blank	Total/NA	Water	8260B	
LCS 240-487431/5	Lab Control Sample	Total/NA	Water	8260B	
240-149436-C-8 MS	Matrix Spike	Total/NA	Water	8260B	
240-149436-C-8 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

# Lab Chronicle

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

Job ID: 240-149414-1

**Client Sample ID: TRIP BLANK\_31**

**Lab Sample ID: 240-149414-1**

**Date Collected: 05/12/21 00:00**

**Matrix: Water**

**Date Received: 05/14/21 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	487431	05/25/21 15:25	SAM	TAL CAN

**Client Sample ID: MW-72\_051221**

**Lab Sample ID: 240-149414-2**

**Date Collected: 05/12/21 10:07**

**Matrix: Water**

**Date Received: 05/14/21 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	487431	05/25/21 17:05	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	486375	05/18/21 21:51	CS	TAL CAN

**Client Sample ID: MW-72S\_051221**

**Lab Sample ID: 240-149414-3**

**Date Collected: 05/12/21 11:16**

**Matrix: Water**

**Date Received: 05/14/21 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	487431	05/25/21 17:30	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	486375	05/18/21 22:16	CS	TAL CAN

**Client Sample ID: MW-73SR\_051221**

**Lab Sample ID: 240-149414-4**

**Date Collected: 05/12/21 12:37**

**Matrix: Water**

**Date Received: 05/14/21 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	487431	05/25/21 17:55	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	486375	05/18/21 22:41	CS	TAL CAN

**Client Sample ID: MW-73D\_051221**

**Lab Sample ID: 240-149414-5**

**Date Collected: 05/12/21 14:00**

**Matrix: Water**

**Date Received: 05/14/21 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	487431	05/25/21 18:20	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	486375	05/18/21 23:06	CS	TAL CAN

**Client Sample ID: MW-139S\_051221**

**Lab Sample ID: 240-149414-6**

**Date Collected: 05/12/21 15:16**

**Matrix: Water**

**Date Received: 05/14/21 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	487431	05/25/21 18:45	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	486375	05/18/21 23:31	CS	TAL CAN

# Lab Chronicle

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

Job ID: 240-149414-1

**Client Sample ID: DUP-09**

**Lab Sample ID: 240-149414-7**

**Date Collected: 05/12/21 00:00**

**Matrix: Water**

**Date Received: 05/14/21 08:00**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Analysis	8260B		1	487431	05/25/21 19:11	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	486375	05/18/21 23:55	CS	TAL CAN

**Laboratory References:**

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

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# Accreditation/Certification Summary

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

Job ID: 240-149414-1

## 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	02-23-22
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.



43144

# Chain of Custody Record

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



Company Name: 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

Client Contact: Arcadis  
 Regulatory program: DW NPDES RCRA Other  
 Client Project Manager: Kris Hinsky  
 Telephone: 248-994-2240  
 Email: kristoffer.hinsky@arcadis.com  
 Sampler Name: Andrew Bant  
 Method of Shipment/Carrier:  
 Shipping/Tracking No:

Site Contact: Julia McClafferty  
 Telephone: 734-644-5131  
 Lab Contact: Mike DeMonico  
 Telephone: 330-497-9396  
 Analysis Turnaround Time:  
 TAT site from bc:  
 10 day  
 3 weeks  
 2 weeks  
 1 week  
 2 days  
 1 day

Sample Identification	Sample Date	Sample Time	Matrix							Containers & Preservatives				Filtered Sample (Y/N)	Composite C/Grab-G	Analyses						Sample Specific Notes / Special Instructions						
			Air	Aqueous	Sediment	Solid	Other	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Uptres			Other	1 1-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B		1,4-Dioxane 8260B SIM					
TriP Blank - 31	---	--																										1 Trip Blank
MW 72-051221	5/12/21	1007	X																									3 VOAs for 8260B 3 VOAs for 8260B SIM
MW 725-051221	5/12/21	1116	X																									
MW-735R-051221	5/12/21	1237	X																									
MW-73D-051221	5/12/21	1400	X																									
MW-139S-051221	5/12/21	1516	X																									
DUP-09	5/12/21	-	X																									



240-149414 Chain of Custody

Possible Hazard Identification  
 Non-Hazard  
 Irritant  
 Ammable  
 Submit all results through Cadena at jromalia@cadenaco.com. Cadena #E203631  
 Level IV Reporting requested.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
<i>Andrew Bant</i>	Arcadis	5/12/21 1700	Non-CAD Storage	Arcadis	5/12/21 1700
<i>Julia McClafferty</i>	Arcadis	5/13/21	<i>Andrew Bant</i>	Company	5/13/21 10:00
<i>Andrew Bant</i>	Company	5/13/21 1519	Received in Laboratory by:	Company	5-14-21 8:00

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

Login # : 149414

**Canton Facility**

Client Accord's Site Name \_\_\_\_\_

Cooler unpacked by

Cooler Received on 5/14/21 Opened on 5/14/21

Matt

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 # 779 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. 4.3 °C Corrected Cooler Temp. 4.4 °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  
 -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)?

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? Yes NO NA

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 \_\_\_\_\_





Eurofins TestAmerica Billing Sheet

Client: Arcadis

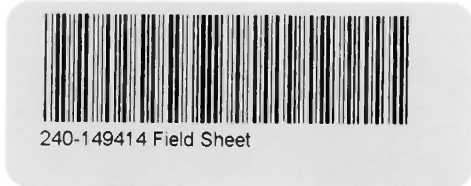
Field Personnel: Amanda Battershell

Site: \_\_\_\_\_

Date: 5/13/21

- Pickup                      \_\_\_\_\_ City Split Pickup                      \_\_\_\_\_ City Split Pickup & Pour Up
- \_\_\_\_\_ Sampling                      \_\_\_\_\_ Rush TAT                      \_\_\_\_\_ Same Day TAT
- \_\_\_\_\_ Composite                      \_\_\_\_\_ Grab                      \_\_\_\_\_ Available CN (field)
- \_\_\_\_\_ On Site (Hrs.)                      \_\_\_\_\_ Drive Time (Hrs.)
- \_\_\_\_\_ Truck Fee                      \_\_\_\_\_ Mileage (out of area)

Equipment Used



- \_\_\_\_\_ ISCO/Composite Sampler                      \_\_\_\_\_ Tyvek Suit
- \_\_\_\_\_ Flow Meter                      \_\_\_\_\_ SS Auger
- \_\_\_\_\_ Tubing (Ft.)                      \_\_\_\_\_ SS Shovel
- \_\_\_\_\_ Rope (Ft.)                      \_\_\_\_\_ Disposable Slot Sampler
- \_\_\_\_\_ Coliwasa                      \_\_\_\_\_ Drum Coring Bit
- \_\_\_\_\_ pH Meter                      \_\_\_\_\_ Air Comp. & Control Box
- \_\_\_\_\_ Disposable Bailer                      \_\_\_\_\_ 3ft.                      \_\_\_\_\_ 6ft.                      \_\_\_\_\_ 7ft.

\_\_\_\_\_ Misc. /Other Equipment: \_\_\_\_\_

