

# ANALYTICAL REPORT

## PREPARED FOR

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Generated 8/28/2023 8:14:37 AM

## JOB DESCRIPTION

Ford LTP - On Site

## JOB NUMBER

240-189970-1

# Eurofins Cleveland

## Job Notes

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## Authorization



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# Definitions/Glossary

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-189970-1

## 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 US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-189970-1

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**Job ID: 240-189970-1**

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**Laboratory: Eurofins Cleveland**

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**Narrative**

**Job Narrative  
240-189970-1**

**Receipt**

The samples were received on 8/11/2023 8:00 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 1.1°C and 1.3°C

**GC/MS VOA**

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

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# Method Summary

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-189970-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396



# Sample Summary

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-189970-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-189970-1	TRIP BLANK_123	Water	08/09/23 00:00	08/11/23 08:00
240-189970-2	MW-71_080923	Water	08/09/23 09:55	08/11/23 08:00
240-189970-3	MW-53_080923	Water	08/09/23 11:05	08/11/23 08:00
240-189970-4	MW-19_080923	Water	08/09/23 13:10	08/11/23 08:00
240-189970-5	MW-29_080923	Water	08/09/23 14:40	08/11/23 08:00

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- 10
- 11
- 12
- 13
- 14

# Detection Summary

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-189970-1

## Client Sample ID: TRIP BLANK\_123

Lab Sample ID: 240-189970-1

No Detections.

## Client Sample ID: MW-71\_080923

Lab Sample ID: 240-189970-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.1		1.0	0.46	ug/L	1		8260D	Total/NA

## Client Sample ID: MW-53\_080923

Lab Sample ID: 240-189970-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.89	J	2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	0.69	J	1.0	0.45	ug/L	1		8260D	Total/NA

## Client Sample ID: MW-19\_080923

Lab Sample ID: 240-189970-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	290		6.0	2.6	ug/L	3		8260D SIM	Total/NA
cis-1,2-Dichloroethene	0.53	J	1.0	0.46	ug/L	1		8260D	Total/NA
Trichloroethene	1.2		1.0	0.44	ug/L	1		8260D	Total/NA
Vinyl chloride	0.78	J	1.0	0.45	ug/L	1		8260D	Total/NA

## Client Sample ID: MW-29\_080923

Lab Sample ID: 240-189970-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	5.4		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	0.51	J	1.0	0.45	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: ARCADIS US Inc  
 Project/Site: Ford LTP - On Site

Job ID: 240-189970-1

**Client Sample ID: TRIP BLANK\_123**

**Lab Sample ID: 240-189970-1**

**Date Collected: 08/09/23 00:00**

**Matrix: Water**

**Date Received: 08/11/23 08:00**

**Method: SW846 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			08/20/23 19:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/20/23 19:28	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/20/23 19:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/20/23 19:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/20/23 19:28	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/20/23 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137		08/20/23 19:28	1
4-Bromofluorobenzene (Surr)	91		56 - 136		08/20/23 19:28	1
Toluene-d8 (Surr)	95		78 - 122		08/20/23 19:28	1
Dibromofluoromethane (Surr)	101		73 - 120		08/20/23 19:28	1

# Client Sample Results

Client: ARCADIS US Inc  
 Project/Site: Ford LTP - On Site

Job ID: 240-189970-1

**Client Sample ID: MW-71\_080923**

**Lab Sample ID: 240-189970-2**

Date Collected: 08/09/23 09:55

Matrix: Water

Date Received: 08/11/23 08:00

**Method: SW846 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			08/21/23 14:05	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		66 - 120					08/21/23 14:05	1

**Method: SW846 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			08/20/23 19:52	1
<b>cis-1,2-Dichloroethene</b>	<b>1.1</b>		1.0	0.46	ug/L			08/20/23 19:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/20/23 19:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/20/23 19:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/20/23 19:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/20/23 19:52	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)	100		62 - 137					08/20/23 19:52	1
4-Bromofluorobenzene (Surr)	100		56 - 136					08/20/23 19:52	1
Toluene-d8 (Surr)	95		78 - 122					08/20/23 19:52	1
Dibromofluoromethane (Surr)	104		73 - 120					08/20/23 19:52	1

# Client Sample Results

Client: ARCADIS US Inc  
 Project/Site: Ford LTP - On Site

Job ID: 240-189970-1

**Client Sample ID: MW-53\_080923**

**Lab Sample ID: 240-189970-3**

Date Collected: 08/09/23 11:05

Matrix: Water

Date Received: 08/11/23 08:00

**Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.89	J	2.0	0.86	ug/L			08/21/23 14:29	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)	103		66 - 120					08/21/23 14:29	1

**Method: SW846 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			08/20/23 20:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/20/23 20:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/20/23 20:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/20/23 20:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/20/23 20:15	1
Vinyl chloride	0.69	J	1.0	0.45	ug/L			08/20/23 20:15	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)	93		62 - 137					08/20/23 20:15	1
4-Bromofluorobenzene (Surr)	92		56 - 136					08/20/23 20:15	1
Toluene-d8 (Surr)	94		78 - 122					08/20/23 20:15	1
Dibromofluoromethane (Surr)	105		73 - 120					08/20/23 20:15	1

# Client Sample Results

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-189970-1

**Client Sample ID: MW-19\_080923**

**Lab Sample ID: 240-189970-4**

Date Collected: 08/09/23 13:10

Matrix: Water

Date Received: 08/11/23 08:00

**Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	290		6.0	2.6	ug/L			08/23/23 12:18	3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		66 - 120		08/23/23 12:18	3

**Method: SW846 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			08/20/23 20:38	1
cis-1,2-Dichloroethene	0.53	J	1.0	0.46	ug/L			08/20/23 20:38	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/20/23 20:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/20/23 20:38	1
Trichloroethene	1.2		1.0	0.44	ug/L			08/20/23 20:38	1
Vinyl chloride	0.78	J	1.0	0.45	ug/L			08/20/23 20:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137		08/20/23 20:38	1
4-Bromofluorobenzene (Surr)	86		56 - 136		08/20/23 20:38	1
Toluene-d8 (Surr)	94		78 - 122		08/20/23 20:38	1
Dibromofluoromethane (Surr)	98		73 - 120		08/20/23 20:38	1

# Client Sample Results

Client: ARCADIS US Inc  
 Project/Site: Ford LTP - On Site

Job ID: 240-189970-1

**Client Sample ID: MW-29\_080923**

**Lab Sample ID: 240-189970-5**

Date Collected: 08/09/23 14:40

Matrix: Water

Date Received: 08/11/23 08:00

**Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	5.4		2.0	0.86	ug/L			08/21/23 12:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		66 - 120					08/21/23 12:30	1

**Method: SW846 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			08/20/23 21:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/20/23 21:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/20/23 21:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/20/23 21:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/20/23 21:01	1
Vinyl chloride	0.51	J	1.0	0.45	ug/L			08/20/23 21:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		62 - 137					08/20/23 21:01	1
4-Bromofluorobenzene (Surr)	96		56 - 136					08/20/23 21:01	1
Toluene-d8 (Surr)	102		78 - 122					08/20/23 21:01	1
Dibromofluoromethane (Surr)	98		73 - 120					08/20/23 21:01	1

# Surrogate Summary

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-189970-1

## 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)
240-189970-1	TRIP BLANK_123	96	91	95	101
240-189970-2	MW-71_080923	100	100	95	104
240-189970-3	MW-53_080923	93	92	94	105
240-189970-4	MW-19_080923	91	86	94	98
240-189970-5	MW-29_080923	90	96	102	98
240-189970-5 MS	MW-29-MS_080923	82	91	96	94
240-189970-5 MSD	MW-29-MSD_080923	88	89	101	97
LCS 240-584483/4	Lab Control Sample	89	92	94	98
MB 240-584483/7	Method Blank	93	88	92	105

**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)
240-189970-2	MW-71_080923	105
240-189970-3	MW-53_080923	103
240-189970-4	MW-19_080923	106
240-189970-5	MW-29_080923	101
240-189970-5 MS	MW-29-MS_080923	106
240-189970-5 MSD	MW-29-MSD_080923	106
240-190171-F-5 MS	Matrix Spike	115
240-190171-F-5 MSD	Matrix Spike Duplicate	102
LCS 240-584517/5	Lab Control Sample	101
LCS 240-584837/5	Lab Control Sample	102
MB 240-584517/7	Method Blank	100
MB 240-584837/7	Method Blank	103

**Surrogate Legend**

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

# QC Sample Results

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-189970-1

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

**Lab Sample ID: MB 240-584483/7**  
**Matrix: Water**  
**Analysis Batch: 584483**

**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			08/20/23 13:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/20/23 13:38	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/20/23 13:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/20/23 13:38	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/20/23 13:38	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/20/23 13:38	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	93		62 - 137		08/20/23 13:38	1
4-Bromofluorobenzene (Surr)	88		56 - 136		08/20/23 13:38	1
Toluene-d8 (Surr)	92		78 - 122		08/20/23 13:38	1
Dibromofluoromethane (Surr)	105		73 - 120		08/20/23 13:38	1

**Lab Sample ID: LCS 240-584483/4**  
**Matrix: Water**  
**Analysis Batch: 584483**

**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	25.4		ug/L		101	63 - 134
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	77 - 123
Tetrachloroethene	25.0	28.2		ug/L		113	76 - 123
trans-1,2-Dichloroethene	25.0	25.4		ug/L		102	75 - 124
Trichloroethene	25.0	25.7		ug/L		103	70 - 122
Vinyl chloride	12.5	11.4		ug/L		91	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	89		62 - 137
4-Bromofluorobenzene (Surr)	92		56 - 136
Toluene-d8 (Surr)	94		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

**Lab Sample ID: 240-189970-5 MS**  
**Matrix: Water**  
**Analysis Batch: 584483**

**Client Sample ID: MW-29-MS\_080923**  
**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	24.7		ug/L		99	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	22.7		ug/L		91	66 - 128
Tetrachloroethene	1.0	U	25.0	24.7		ug/L		99	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	23.9		ug/L		96	56 - 136
Trichloroethene	1.0	U	25.0	23.4		ug/L		93	61 - 124
Vinyl chloride	0.51	J	12.5	10.6		ug/L		81	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	82		62 - 137
4-Bromofluorobenzene (Surr)	91		56 - 136
Toluene-d8 (Surr)	96		78 - 122

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# QC Sample Results

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-189970-1

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

Lab Sample ID: 240-189970-5 MS  
Matrix: Water  
Analysis Batch: 584483

Client Sample ID: MW-29-MS\_080923  
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	94		73 - 120

Lab Sample ID: 240-189970-5 MSD  
Matrix: Water  
Analysis Batch: 584483

Client Sample ID: MW-29-MSD\_080923  
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	25.6		ug/L		102	56 - 135	4	26
cis-1,2-Dichloroethene	1.0	U	25.0	23.9		ug/L		96	66 - 128	5	14
Tetrachloroethene	1.0	U	25.0	27.7		ug/L		111	62 - 131	11	20
trans-1,2-Dichloroethene	1.0	U	25.0	23.3		ug/L		93	56 - 136	2	15
Trichloroethene	1.0	U	25.0	26.2		ug/L		105	61 - 124	11	15
Vinyl chloride	0.51	J	12.5	12.4		ug/L		95	43 - 157	16	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		62 - 137
4-Bromofluorobenzene (Surr)	89		56 - 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

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

Lab Sample ID: MB 240-584517/7  
Matrix: Water  
Analysis Batch: 584517

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			08/21/23 10:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 120		08/21/23 10:55	1

Lab Sample ID: LCS 240-584517/5  
Matrix: Water  
Analysis Batch: 584517

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	9.48		ug/L		95	80 - 122

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		66 - 120

Lab Sample ID: 240-189970-5 MS  
Matrix: Water  
Analysis Batch: 584517

Client Sample ID: MW-29-MS\_080923  
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	5.4		10.0	16.2		ug/L		108	51 - 153

Eurofins Cleveland



# QC Sample Results

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-189970-1

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

	<i>MS</i>	<i>MS</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	106		66 - 120

**Lab Sample ID: 240-189970-5 MSD**  
**Matrix: Water**  
**Analysis Batch: 584517**

**Client Sample ID: MW-29-MSD\_080923**  
**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	5.4		10.0	16.6		ug/L		111	51 - 153	2	16

	<i>MSD</i>	<i>MSD</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	106		66 - 120

**Lab Sample ID: MB 240-584837/7**  
**Matrix: Water**  
**Analysis Batch: 584837**

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

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/23/23 10:43	1

	<i>MB</i>	<i>MB</i>		<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			
1,2-Dichloroethane-d4 (Surr)	103		66 - 120		08/23/23 10:43	1

**Lab Sample ID: LCS 240-584837/5**  
**Matrix: Water**  
**Analysis Batch: 584837**

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

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
1,4-Dioxane	10.0	9.93		ug/L		99	80 - 122

	<i>LCS</i>	<i>LCS</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	102		66 - 120

**Lab Sample ID: 240-190171-F-5 MS**  
**Matrix: Water**  
**Analysis Batch: 584837**

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

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MS Result</i>	<i>MS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>
1,4-Dioxane	2.0	U	10.0	10.7		ug/L		107	51 - 153

	<i>MS</i>	<i>MS</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	115		66 - 120

**Lab Sample ID: 240-190171-F-5 MSD**  
**Matrix: Water**  
**Analysis Batch: 584837**

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

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
1,4-Dioxane	2.0	U	10.0	11.5		ug/L		115	51 - 153	8	16

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# QC Sample Results

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-189970-1

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

Lab Sample ID: 240-190171-F-5 MSD  
Matrix: Water  
Analysis Batch: 584837

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

<i>Surrogate</i>	<i>MSD</i>	<i>MSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
1,2-Dichloroethane-d4 (Surr)	102		66 - 120

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# QC Association Summary

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-189970-1

## GC/MS VOA

### Analysis Batch: 584483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189970-1	TRIP BLANK_123	Total/NA	Water	8260D	
240-189970-2	MW-71_080923	Total/NA	Water	8260D	
240-189970-3	MW-53_080923	Total/NA	Water	8260D	
240-189970-4	MW-19_080923	Total/NA	Water	8260D	
240-189970-5	MW-29_080923	Total/NA	Water	8260D	
MB 240-584483/7	Method Blank	Total/NA	Water	8260D	
LCS 240-584483/4	Lab Control Sample	Total/NA	Water	8260D	
240-189970-5 MS	MW-29-MS_080923	Total/NA	Water	8260D	
240-189970-5 MSD	MW-29-MSD_080923	Total/NA	Water	8260D	

### Analysis Batch: 584517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189970-2	MW-71_080923	Total/NA	Water	8260D SIM	
240-189970-3	MW-53_080923	Total/NA	Water	8260D SIM	
240-189970-5	MW-29_080923	Total/NA	Water	8260D SIM	
MB 240-584517/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-584517/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-189970-5 MS	MW-29-MS_080923	Total/NA	Water	8260D SIM	
240-189970-5 MSD	MW-29-MSD_080923	Total/NA	Water	8260D SIM	

### Analysis Batch: 584837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189970-4	MW-19_080923	Total/NA	Water	8260D SIM	
MB 240-584837/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-584837/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-190171-F-5 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-190171-F-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

# Lab Chronicle

Client: ARCADIS US Inc  
Project/Site: Ford LTP - On Site

Job ID: 240-189970-1

## Client Sample ID: TRIP BLANK\_123

Lab Sample ID: 240-189970-1

Date Collected: 08/09/23 00:00

Matrix: Water

Date Received: 08/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	584483	LEE	EET CLE	08/20/23 19:28

## Client Sample ID: MW-71\_080923

Lab Sample ID: 240-189970-2

Date Collected: 08/09/23 09:55

Matrix: Water

Date Received: 08/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	584483	LEE	EET CLE	08/20/23 19:52
Total/NA	Analysis	8260D SIM		1	584517	MRL	EET CLE	08/21/23 14:05

## Client Sample ID: MW-53\_080923

Lab Sample ID: 240-189970-3

Date Collected: 08/09/23 11:05

Matrix: Water

Date Received: 08/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	584483	LEE	EET CLE	08/20/23 20:15
Total/NA	Analysis	8260D SIM		1	584517	MRL	EET CLE	08/21/23 14:29

## Client Sample ID: MW-19\_080923

Lab Sample ID: 240-189970-4

Date Collected: 08/09/23 13:10

Matrix: Water

Date Received: 08/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	584483	LEE	EET CLE	08/20/23 20:38
Total/NA	Analysis	8260D SIM		3	584837	MRL	EET CLE	08/23/23 12:18

## Client Sample ID: MW-29\_080923

Lab Sample ID: 240-189970-5

Date Collected: 08/09/23 14:40

Matrix: Water

Date Received: 08/11/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	584483	LEE	EET CLE	08/20/23 21:01
Total/NA	Analysis	8260D SIM		1	584517	MRL	EET CLE	08/21/23 12:30

### Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

# Accreditation/Certification Summary

Client: ARCADIS US Inc  
 Project/Site: Ford LTP - On Site

Job ID: 240-189970-1

## Laboratory: Eurofins Cleveland

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	02-27-24
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23 *
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-02-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

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

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

Regulatory program:  DW  NPDES  RCRA  Other

Client Project Manager: Kris Hinsky  
 Telephone: 248-994-2240  
 Email: kris@hinsky.com

Site Contact: Christina Weaver  
 Telephone: 248-994-2240

Lab Contact: Mike DeMunico  
 Telephone: 330-497-9396

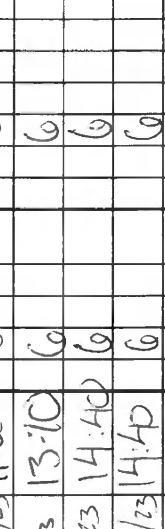
Company Name: Arcadis  
 Address: 28550 Cabot Drive, Suite 500  
 City/State/Zip: Novi, MI, 48377  
 Phone: 248-994-2240

Project Name: Ford LTP On-Site  
 Project Number: 30167538-401.03  
 PO # 30167538-401.03

Analysis Turnaround Time:  
 10 day  2 weeks  
 1 week  2 days  
 1 day

Sample Name: 7-Test Link  
 Method of Shipment/Carrier:  
 Shipping/Tracking No:

Sample Identification	Sample Date	Sample Time	Matrix							Containers & Preservatives							Filtered Sample (Y/N)	Composite (Grab/C)	Analyses					Sample Specific Notes / Special Instructions:
			Air	Aqueous	Sediment	Solid	Other	H2SO4	HNO3	HCl	NaOH	ZnAc	Impres	Other	1.1-DCE 8260D	1.2-DCE 8260D			Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM	
TRIP BLANK_ 123	----	----	1															X	X	X		1 Trip Blank		
MW-71-080923	08/09/23	9:55	6															X	X	X		3 VOAs for 8260D 3 VOAs for 8260D SIM		
MW-53-080923	08/09/23	11:05	6															X	X	X				
MW-19-080923	08/09/23	13:10	6															X	X	X				
MW-29-080923	08/09/23	14:40	6															X	X	X				
MW-29-MS-080923	08/09/23	14:40	6															X	X	X				
MW-29-MSD-080923	08/09/23	14:40	6															X	X	X				



Possible Hazard Identification:  Non-Hazard  Irritant  Corrosive  Flammable  Volatile  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

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
<i>[Signature]</i>	Arcadis	08/09/23 15:15	Non-Cold Storage	Arcadis	8/9/23 15:15
<i>[Signature]</i>	ARCADIS	8/10/23/1239	<i>[Signature]</i>	Company	8/10/23/1239
<i>[Signature]</i>	ETA	8/10/23 1239	Received in Laboratory by:	Company	8-11-23 Garrison

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**Eurofins - Cleveland Sample Receipt Form/Narrative** Login # : \_\_\_\_\_  
**Barberton Facility**

Client ARCADIS Site Name \_\_\_\_\_ Cooler unpacked by: M. J. Lee  
Cooler Received on 8-11-23 Opened on 8-11-23  
FedEx: 1<sup>st</sup> Grd Exp  UPS FAS Waypoint Client Drop Off Eurofins Courier Other \_\_\_\_\_


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

Eurofins Cooler # UC 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 # \_\_\_\_\_ (CF \_\_\_\_\_ °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 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

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# HC312502  
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 # \_\_\_\_\_ 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 \_\_\_\_\_

**Tests that are not checked for pH by Receiving:**  
VOAs  
Oil and Grease  
TOC

**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 - Canton Sample Receipt Multiple Cooler Form

Cooler Description (Circle)				IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)		
EC	Client	Box	Other	IR GUN #: 22	1.2	1.1	<input checked="" type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #: 22	1.4	1.3	<input checked="" type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice
EC	Client	Box	Other	IR GUN #:			<input type="radio"/> Wet Ice	<input type="radio"/> Blue Ice	<input type="radio"/> Dry Ice

See Temperature Excursion Form



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

Client Contact  
 Company Name: Arcadis  
 Address: 28550 Cabot Drive, Suite 500  
 City/State/Zip: Novi, MI, 48377  
 Phone: 248-994-2240  
 Project Name: Ford I.P. On-Site  
 Project Number: 30167538-401.03  
 PO # 30167538-401.03

Regulatory program:  DW  NPDES  RCRA  Other

Client Project Manager: Kris Hinsky  
 Telephone: 248-994-2240  
 Email: kris@arcadis.com

Site Contact: Christina Weaver  
 Telephone: 248-994-2240

Lab Contact: Mike DeMonico  
 Telephone: 330-497-9396

Analysis Turnaround Time

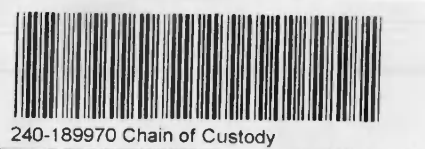
TAT if different from below  
 10 day  
 3 weeks  
 2 weeks  
 1 week  
 2 days  
 1 day

Method of Shipment/Carrier:  
 Shipping/Tracking No:

Sample Identification	Sample Date	Sample Time	Matrix				Containers & Preservatives						Filtered Sample (Y/N)	Composite C/Grab C	Analyses					Sample Specific Notes / Special Instructions										
			Air	Aqueous	Sediment	Solid	Other	H2SO4	HNO3	HCl	NaOH	ZnAc			LiPres	Others	1,1-DCE 8260D	CS-1,2-DCE 8260D	Trans-1,2-DCE 8260D		PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM						
TRIP BLANK_123		----	1																										1 Trip Blank	
MW-71-080923	08/09/23	9:55	6																										3 VOAs for 8260D 3 VOAs for 8260D SIM	
MW-53-080923	08/09/23	11:05	6																											
MW-19-080923	08/09/23	13:10	6																											
MW-29-080923	08/09/23	14:40	6																											
MW-29-MS-080923	08/09/23	14:40	6																											

Possible Hazard Identification  
 Non-Hazard  Irritant  Flammable  Poison B  Unknown

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 [jromalia@cadenaco.com](mailto:jromalia@cadenaco.com). Cadena #E203728  
 Level IV Reporting requested.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
<i>[Signature]</i>	Arcadis	08/09/23 15:15	Non-Field Storage	Arcadis	8/9/23 15:15
<i>[Signature]</i>	Arcadis	8/10/23 1239	<i>[Signature]</i>	Arcadis	8/10/23 1239
<i>[Signature]</i>	Arcadis	8/10/23 1239	<i>[Signature]</i>	Arcadis	8-11-23 8:00 AM

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**Eurofins - Cleveland Sample Receipt Form/Narrative** Login # : \_\_\_\_\_  
**Barberton Facility**

Client ARCADIS Site Name \_\_\_\_\_ Cooler unpacked by: M. Jones  
Cooler Received on 8-11-23 Opened on 8-11-23  
FedEx: 1<sup>st</sup>  Exp  UPS  FAS  Waypoint  Client Drop Off  Eurofins Courier  Other \_\_\_\_\_

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

Eurofins Cooler # 2 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 # \_\_\_\_\_ (CF \_\_\_\_\_ °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity \_\_\_\_\_ 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

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# HC312502  
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 # \_\_\_\_\_ 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: \_\_\_\_\_

**Eurofins - Canton Sample Receipt Multiple Cooler Form**

Cooler Description (Circle)				IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
<input checked="" type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: 22	1.2	1.1	<input checked="" type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input checked="" type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: 22	1.4	1.3	<input checked="" type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: _____			<input type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: _____			<input type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: _____			<input type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: _____			<input type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: _____			<input type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: _____			<input type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
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<input type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: _____			<input type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: _____			<input type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: _____			<input type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
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<input type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: _____			<input type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: _____			<input type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
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<input type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: _____			<input type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: _____			<input type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: _____			<input type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
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<input type="radio"/> EC	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	IR GUN #: _____			<input type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None

See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

# DATA VERIFICATION REPORT



August 28, 2023

Kris Hinskey  
Arcadis of Michigan  
28550 Cabot Drive  
Suite 500  
Novi, MI US 48377

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - ON-SITE -Soil Gas, Ground water and Soil

Project number: 30167538.401.03- onsite groundwater

Event Specific Scope of Work References: Sample COC

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 189970-1

Sample date: 2023-08-09

Report received by CADENA: 2023-08-28

Initial Data Verification completed by CADENA: 2023-08-28

Number of Samples:5

Sample Matrices:Water

Test Categories:GCMS VOC

**Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.**

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, MS/MSD Recovery, MS/MSD RPD, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at <http://clms.cadenaco.com/index.cfm>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

## CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

## Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 189970-1

Analyte	Cas No.	Sample Name: TRIP BLANK_123				Sample Name: MW-71_080923				Sample Name: MW-53_080923				Sample Name: MW-19_080923				Sample Name: MW-29_080923			
		Result	Limit	Units	Valid	Result	Limit	Units	Valid	Result	Limit	Units	Valid	Result	Limit	Units	Valid	Result	Limit	Units	Valid
<b>GC/MS VOC</b>																					
<u>OSW-8260D</u>																					
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	1.1	1.0	ug/l	---	ND	1.0	ug/l	---	0.53	1.0	ug/l	J	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	1.2	1.0	ug/l	---	ND	1.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	0.69	1.0	ug/l	J	0.78	1.0	ug/l	J	0.51	1.0	ug/l	J
<u>OSW-8260DSIM</u>																					
1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	0.89	2.0	ug/l	J	290	6.0	ug/l	---	5.4	2.0	ug/l	---