# PREPARED FOR

Attn: Ms. Megan Meckley Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 8/21/2024 7:46:37 AM

# **JOB DESCRIPTION**

Ford LTP

# **JOB NUMBER**

240-209341-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

# **Eurofins Cleveland**

### **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

# **Authorization**

Generated 8/21/2024 7:46:37 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: Arcadis U.S., Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-209341-1

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### **Definitions/Glossary**

Client: Arcadis U.S., Inc. Job ID: 240-209341-1

Project/Site: Ford LTP

#### **Qualifiers**

		MAC	VOA	
U	U	IVIO	VUA	

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

#### Glossary

These commonly used abbreviations may or may not be present in this report.
Listed under the "D" column to designate that the result is reported on a dry weight basis
Percent Recovery
Contains Free Liquid
Colony Forming Unit
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)
Dilution Factor
Detection Limit (DoD/DOE)
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)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit MLMinimum 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** 

Relative Error Ratio (Radiochemistry) RER

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

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#### **Case Narrative**

Client: Arcadis U.S., Inc. Project: Ford LTP

Job ID: 240-209341-1 Eurofins Cleveland

Job Narrative 240-209341-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
  situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
  specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 8/13/2024 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.6°C and 4.2°C.

#### GC/MS VOA

Method 8260D\_SIM: The surrogate failed in the MS, effected sample are (240-209337-E-2 MS). The MS was used for batch QC only.

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

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Job ID: 240-209341-1

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# **Method Summary**

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-209341-1

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

Eurofins Cleveland

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# **Sample Summary**

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-209341-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-209341-1	TRIP BLANK_60	Water	08/09/24 00:00	08/13/24 09:30
240-209341-2	MW-30_080924	Water	08/09/24 08:40	08/13/24 09:30

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# **Detection Summary**

Client: Arcadis U.S., Inc.

Job ID: 240-209341-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_60 Lab Sample ID: 240-209341-1

No Detections.

Client Sample ID: MW-30\_080924 Lab Sample ID: 240-209341-2

	Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
1	1,4-Dioxane	9.6	2.0	0.86 ug/L	1	8260D SIM	Total/NA

1

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4.0

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# **Client Sample Results**

Client: Arcadis U.S., Inc. Job ID: 240-209341-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_60

Date Received: 08/13/24 09:30

Lab Sample ID: 240-209341-1 Date Collected: 08/09/24 00:00

**Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/16/24 14:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 14:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 14:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 14:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 14:36	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/16/24 14:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137			_		08/16/24 14:36	1
4-Bromofluorobenzene (Surr)	89		56 <sub>-</sub> 136					08/16/24 14:36	1
Toluene-d8 (Surr)	95		78 - 122					08/16/24 14:36	1
Dibromofluoromethane (Surr)	96		73 - 120					08/16/24 14:36	1

# **Client Sample Results**

Client: Arcadis U.S., Inc. Job ID: 240-209341-1

Project/Site: Ford LTP

Client Sample ID: MW-30\_080924

Date Received: 08/13/24 09:30

Dibromofluoromethane (Surr)

Lab Sample ID: 240-209341-2 Date Collected: 08/09/24 08:40

**Matrix: Water** 

08/16/24 19:47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	9.6		2.0	0.86	ug/L			08/19/24 17:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		68 - 127					08/19/24 17:04	1
Method: SW846 8260D - Volati	ile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/16/24 19:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 19:47	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 19:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 19:47	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 19:47	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/16/24 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137			-		08/16/24 19:47	1
4-Bromofluorobenzene (Surr)	85		56 <sub>-</sub> 136					08/16/24 19:47	1
Toluene-d8 (Surr)	88		78 <sub>-</sub> 122					08/16/24 19:47	1

73 - 120

### **Surrogate Summary**

Client: Arcadis U.S., Inc.

Job ID: 240-209341-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Su	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-209341-1	TRIP BLANK_60	104	89	95	96
240-209341-2	MW-30_080924	98	85	88	92
240-209367-C-6 MS	Matrix Spike	92	97	92	95
240-209367-C-6 MSD	Matrix Spike Duplicate	95	99	97	100
LCS 240-623588/5	Lab Control Sample	92	97	92	96
MB 240-623588/9	Method Blank	95	82	86	88

#### 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

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-209337-E-2 MS	Matrix Spike	131 S1+	
240-209337-E-2 MSD	Matrix Spike Duplicate	127	
240-209341-2	MW-30_080924	117	
LCS 240-623779/4	Lab Control Sample	107	
MB 240-623779/6	Method Blank	113	
Surrogate Legend			

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

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Client: Arcadis U.S., Inc. Job ID: 240-209341-1

Project/Site: Ford LTP

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

Lab Sample ID: MB 240-623588/9

**Matrix: Water** 

1,1-Dichloroethene

Tetrachloroethene trans-1,2-Dichloroethene

Trichloroethene

Vinyl chloride

cis-1,2-Dichloroethene

Analyte

Analysis Batch: 623588

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

08/16/24 12:24

MB MB Dil Fac Result Qualifier RLMDL Unit Prepared Analyzed 1.0 U 1.0 0.49 ug/L 08/16/24 12:24 1.0 U 1.0 0.46 ug/L 08/16/24 12:24 1.0 U 1.0 0.44 ug/L 08/16/24 12:24 1.0 U 08/16/24 12:24 1.0 0.51 ug/L 1.0 U 1.0 0.44 ug/L 08/16/24 12:24

0.45 ug/L

1.0 U MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137		08/16/24 12:24	1
4-Bromofluorobenzene (Surr)	82		56 - 136		08/16/24 12:24	1
Toluene-d8 (Surr)	86		78 - 122		08/16/24 12:24	1
Dibromofluoromethane (Surr)	88		73 - 120		08/16/24 12:24	1

1.0

Lab Sample ID: LCS 240-623588/5

**Matrix: Water** 

Analysis Batch: 623588

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	21.3		ug/L		85	63 - 134	
cis-1,2-Dichloroethene	25.0	22.5		ug/L		90	77 - 123	
Tetrachloroethene	25.0	23.9		ug/L		96	76 - 123	
trans-1,2-Dichloroethene	25.0	21.7		ug/L		87	75 - 124	
Trichloroethene	25.0	24.1		ug/L		97	70 - 122	
Vinyl chloride	12.5	12.3		ug/L		98	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		62 - 137
4-Bromofluorobenzene (Surr)	97		56 <sub>-</sub> 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-209367-C-6 MS

**Matrix: Water** 

Analysis Batch: 623588

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	5.0	U	125	95.2		ug/L		76	56 - 135	
cis-1,2-Dichloroethene	5.0	U	125	107		ug/L		86	66 - 128	
Tetrachloroethene	100		125	203		ug/L		80	62 - 131	
trans-1,2-Dichloroethene	5.0	U	125	102		ug/L		81	56 - 136	
Trichloroethene	5.0	U	125	108		ug/L		86	61 - 124	
Vinyl chloride	5.0	U	62.5	57.7		ug/L		92	43 - 157	

MS MS

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

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Job ID: 240-209341-1

Client: Arcadis U.S., Inc. Project/Site: Ford LTP

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

Lab Sample ID: 240-209367-C-6 MS

**Matrix: Water** 

Analysis Batch: 623588

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

MS MS

 Surrogate
 %Recovery
 Qualifier
 Limits

 Dibromofluoromethane (Surr)
 95
 73 - 120

Lab Sample ID: 240-209367-C-6 MSD

**Matrix: Water** 

Analysis Batch: 623588

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

MSD MSD %Rec RPD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 1,1-Dichloroethene 5.0 U 125 91.7 ug/L 73 56 - 135 26 cis-1,2-Dichloroethene 5.0 U 125 84 66 - 128 105 ug/L 2 14 Tetrachloroethene 100 125 192 ug/L 71 62 \_ 131 20 trans-1,2-Dichloroethene 5.0 U 125 97.6 ug/L 78 56 - 136 15 Trichloroethene 5.0 U 125 101 ug/L 81 61 - 124 6 15 Vinyl chloride 5.0 U 62.5 54.7 ug/L 43 - 157 24

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

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

Lab Sample ID: MB 240-623779/6

Matrix: Water

Analysis Batch: 623779

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/19/24 10:25	1
	MB	MB							

 Surrogate
 %Recovery [1,2-Dichloroethane-d4 (Surr)]
 Qualifier [2,3-Dichloroethane-d4 (Surr)]
 Limits [2,3-Dichloroethane-d4 (Surr)]
 Prepared [2,3-Dichloroethane-d4 (Surr)]
 Analyzed [2,3-Dichloroethane-d4 (Surr)]
 08/19/24 10:25
 1

Lab Sample ID: LCS 240-623779/4

**Matrix: Water** 

Analysis Batch: 623779

-		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane		10.0	7.84		ug/L		78	75 - 121	-

LCS LCS

 Surrogate
 %Recovery
 Qualifier
 Limits

 1,2-Dichloroethane-d4 (Surr)
 107
 68 - 127

Lab Sample ID: 240-209337-E-2 MS

**Matrix: Water** 

Analysis Batch: 623779

Client Sa	mple ID:	Matrix Spike
	Daniel T	

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Re	Limits	
1,4-Dioxane	2.0	U	10.0	8.11		ug/L		8	20 - 180	

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# **QC Sample Results**

Client: Arcadis U.S., Inc. Job ID: 240-209341-1

Project/Site: Ford LTP

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	131	S1+	68 - 127

Lab Sample ID: 240-209337-E-2 MSD

**Matrix: Water** 

Analysis Batch: 623779

	-	Prep Type: Total/NA

RPD Sample Sample Spike MSD MSD %Rec Analyte Result Qualifier Added Result Qualifier D Limits RPD Limit Unit %Rec 2.0 U 1,4-Dioxane 10.0 9.36 20 - 180 20 ug/L 14

MSD MSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 1,2-Dichloroethane-d4 (Surr)
 127
 68 - 127

**Client Sample ID: Matrix Spike Duplicate** 

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# **QC Association Summary**

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-209341-1

### **GC/MS VOA**

### Analysis Batch: 623588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-209341-1	TRIP BLANK_60	Total/NA	Water	8260D	
240-209341-2	MW-30_080924	Total/NA	Water	8260D	
MB 240-623588/9	Method Blank	Total/NA	Water	8260D	
LCS 240-623588/5	Lab Control Sample	Total/NA	Water	8260D	
240-209367-C-6 MS	Matrix Spike	Total/NA	Water	8260D	
240-209367-C-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

#### Analysis Batch: 623779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-209341-2	MW-30_080924	Total/NA	Water	8260D SIM	
MB 240-623779/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-623779/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-209337-E-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-209337-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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#### **Lab Chronicle**

Client: Arcadis U.S., Inc. Job ID: 240-209341-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_60

Lab Sample ID: 240-209341-1 Date Collected: 08/09/24 00:00

Matrix: Water

Date Received: 08/13/24 09:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	623588	MDH	EET CLE	08/16/24 14:36

Client Sample ID: MW-30\_080924

Lab Sample ID: 240-209341-2

Matrix: Water

Date Collected: 08/09/24 08:40 Date Received: 08/13/24 09:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	623588	MDH	EET CLE	08/16/24 19:47
Total/NA	Analysis	8260D SIM		1	623779	MS	EET CLE	08/19/24 17:04

Laboratory References:

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

# **Accreditation/Certification Summary**

Client: Arcadis U.S., Inc. Job ID: 240-209341-1

Project/Site: Ford LTP

### **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	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
lowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

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# **MICHIGAN** 190

### Chain of Custody Record

**TestAmerica** 

TestA	merica Labora	tory location:	Brigi	hton -	- 104	48 Cita	tion D	rive. S	Suite 2	200 /	Brig	hton,	MI 48	3116	/810	-229-	2763	,					_			TH	E LEADER IN ENVIRONMENTAL TESTING
Client Contact Company Name: Arcadis	Regula	ory program:			D	w		NPI	DES		P- 1	RCR.	٨		Othe	er [											TestAmerica Laboratories, Inc.
	Client Project	Manager: Kris	Hinsk	cey			Sit	e Con	tact:	Chri	stina	Wex	ver				Lab (	onta	ct: Mil	ce Del	Monic	0			-		COC No:
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240					Te	lenho	ne: 24	8-99	4-224	40			_		Telen	hone	330-4	97-93	96						
City/State/Lip: Novi, MI, 48377	l																										1 of 1 COCs
Phone: 248-994-2240	Email: kristoff	er.hinskey@arc	adis.	com				Ana	lysis	urn.	aroun	od I II	me	+						A	naly	ses	1		Т		For lab use only
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Project Name: Ford LTP	Garret	t Lin	4					10 da	<b>.</b>		3 wee																Lab sampling
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PO # US3410018772	Shipping/Track	sing No:		-			1				2 day 1 day			Je (Y /)	/Grab	Q	260D	E 8260			82600	2600 \$					Job/SDG No:
				1	Matri			Co	ntaine	a de	Preser	vativ	es		C	8260D	CE 8	20-	90	8	oride	ne 8					
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment	Other:	H2SO4	HN03	HCI	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite=C/Grab	1.1-DCE	cis-1.2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					Sample Specific Notes / Special Instructions:
TRIP BLANK_ (a(f)				1			T		1					N	G	Х	Х	Х	Х	Х	Х						1 Trip Blank
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TRIP BLANK_ 60 MW-30-080924	8/9/24	840		9		_	4	_	6			_		N	G	×	۴	X	×	×	×	K	_	_	_		3 VOAs for 8260D SIM
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Possible Hazard Identification  ✓ Non-Hazard I lammable sin Irritant	Pois	on B	Jnk	nown				Samp			l (A Clien		ay be				les ar		i <b>ned lo</b> Archive				h) Ionths				
Special Instructions/QC Requirements & Comments:																											
Submit all results through Cadena at jtomalia@cadenaco.c Level IV Reporting requested.	om. Cadena #I	203728																									
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Relinquished by William J. C. A. A.	Company:	dus		Date/	Time 2		12	229	5		ciyed			<	ン		7	4		Com	рипу	-A					Date/Time: 812124 12:25
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1000					<u> </u>	<u> </u>				_		_			-				_	_	, ,	_					

8/21/2024

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VOA Sample Preservation - Date/Time VOAs Frozen
Time preservedPreservative(s) added/Lot number(s)were futility preserved in the favoratory
PLE PRESERVATION
Sample(s)were received with bubble >6 mm in diameter (Notify PM)
PLE CONDITION  were received after the recon
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Concerning
Contacted PM Date by via Verbal Voice Mail Other
Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #  Was a LL Hg or Me Hg trip blank present?
13 Were all preserved sample(s) at the correct pH upon receipt?  14 Were VOAs on the COC?  15 Were vir bubbles >6 mm in any VOA viale?  16 Were vir bubbles >6 mm in any VOA viale?  17 Were vir bubbles >6 mm in any VOA viale?  18 Were vir bubbles >6 mm in any VOA viale?  19 Were vir bubbles >6 mm in any VOA viale?  10 Were vir bubbles >6 mm in any VOA viale?  11 Arger than this Ves NO NA
Are these work share samples and all listed on the COC?  Yes (No. 13-17 have been checked at the originating laboratory
10 Were correct bottle(s) used for the test(s) indicated?  11 Sufficient quantity received to perform indicated analyses?  Yes No
8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?  9 For each sample, does the COC specify preservatives (YN), # of containers (YN), and sample type of grab/comp(YN)?
e appropriate place? (Xe) No Learly identified on the COC? (Xe) No
Shippers' packing slip attached to the cooler(s)?  Did custody papers accompany the sample(s)?
promised? Yes No NA
<b>99.</b>
-C, / °C) Observed Cooler
COOLANT Wet be Blue Ice Dry Ice Water None  Cooler temperature upon receipt  Cooler temperature upon receipt
Foam Box Client Cooler Box Oth
UPS FAS Waypoint Client Drop Off E
Client ACED Site Name Cooley Improcked by Cooler Received on 8 13-34 Opened on 8 13-34
Eurojins - Cleveland Sample Receipt Korm/Narrative Login# : Login# : Barberton Facility

Page 19 of 26

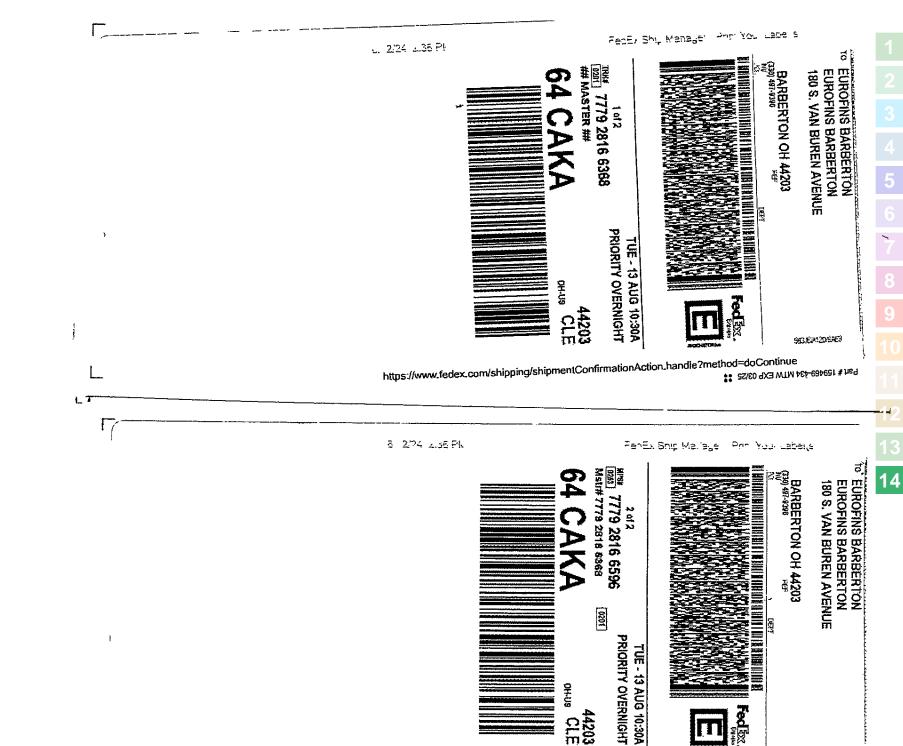
8/13/2024

Lab ID	Container Type	Container Presei	vation Preservation Lot Number
240-209341-A-1	Voa Vial 40ml - Hydrochloric Acid		The state of the s
240-209341-A-2	Voa Vial 40ml - Hydrochloric Acid		
240-209341-B-2	Voa Vial 40ml - Hydrochloric Acid		
240-209341-C-2	Voa Vial 40ml - Hydrochloric Acid		
240-209341-D-2	Voa Vial 40ml - Hydrochloric Acıd		
240-209341-E-2	Voa Vial 40ml - Hydrochloric Acıd		
240-209341-G-2	Voa Vial 40ml - Hydrochloric Acıd		To have the second seco
	Lab ID  240-209341-A-1 240-209341-B-2 240-209341-C-2 240-209341-D-2 240-209341-E-2 240-209341-G-2		

Page 20 of 26 8/21/2024

Page 1 of 1

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Wet Ice Bive Ice Dry Ice Water None			IR GUN #:	Box Other	Client b	8
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Box Other	Client B	ñ
Wellice Bluelice Drylice Water None			IR GUN #:	Box Other	Client b	23
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. ice None			IR GUN #:	Box Other	Client B	ក
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live ice None			IR GUN #:	Box Other	Client B	۳ ۳
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Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Box Other	Client B	E
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Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Box Other	Client B	8
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None			IR GUN #:	Box Other	Client b	ñ
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Wet Ice Blue Ice Dry Ice Water Name			IR GUN #:	Box Other	Client B	ក
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u e			IR GUN #:	Box Other	Client Bo	ក
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lue Ice None	3.6	7.2	IR GUN #:	ox Other	Client Box	ក្រ
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# MICHIGAN 190

# Chain of Custody Record

<u>TestAmerica</u>

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Client Contact Company Name: Arcadis	Regular	tory program:			DW			PDE	S	-	RC	RA		Oth	her											T	
	Client Project	Manager: Kris	Hinsk	iey			Site C	onta	ct: Cl	hristii	na W	enver				Lab	Contac	t: Mil	e Del	Monic	0		_			TestAmerica Laborato COC No:	ories, Inc.
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-7740					Telep	hann	2.18-	994.7	2240	-				Talas	ho	330-4	27 03	94					-		
City/State/Zip: Novi, MI, 48377	Telephone. 240							_								ı cıe	mone:	330-4								1 of 1 CC	OCs .
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.	com			A	naiys	is Tu	FRATO	banc	ime	-				_		A	nalys	es				-	For lab use only	-
	Sampler Name	:				-	TAT	differe	ent from																	Walk-in client	that also
Project Name: Ford LTP	France	t Lin	K				10	day			veeks veeks													- 1		T ab assertion	1700
Project Number: 30206169.0401.03	Method of Ship						٦ "	Gay		1 v	vcek		9	O							Σ					Lab sampling	THE ST
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Samuel Management	Sample Date	Sample Time	Air	Aqueous	Sediment	Other:	H2SO4	HNO3	NaOH	ZaAci	Unpres	Other:	Piltered Samule (Y / N)	Composite=C/Grab=G	1.1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride	1,4-Dioxane 8260D SIM					Sample Specific No Special Instructio	
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Special Instructions/QC Requirements & Comments:	7 0130	,	Jiik	nown		-		K	cturn	to Cir	CIII		Disp	OSA: D	y Lau	_		CHIVE	roi i		IVI	muis	_	_			
Submit all results through Cadena at jtomalia@cadenaco.c Level IV Reporting requested.	om. Cadena #6	E203728																									
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Relinquished by Pellan Mus	Company			Date/			338					Labora	ator		1	7			Com			-				Date/Time: 24	900
						-							//	,													

Sample(s)	intact and uncompromised?  to the cooler(s)?  the sample(s)?  ushed & signed in the appropriate place?  ushed & signed in the appropriate place?  Iso No perform indicated analyses?  the test(s) indicated?  specify preservatives (NN), # of containers (Note the conceing)?  the test(s) indicated analyses?  yes No perform indicated analyses?  the correct pH upon receipt?  Yes No No yes No No in the cooler(s)? Trip Blank Lot #	Client MCEd'S  Cooler Received on 8-13-34  Cooler Received on 8-13-34  FedEx: 1st Grd (Exp. UPS FAS Waypoint Client Drop Off Eurofins Courier Other  Receipt After-hours Drop-off Date/Time  Eurofins Cooler # Foam Box Client Cooler Box Other  Packing material used. Buffile Wrap Foam Plastic Bag None Other  COOLANT Weff be Blue Ice Dry Ice Water None  1 Cooler temperature upon receipt  IR GUN # (CF
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Page 24 of 26

Colet   Description   Right   Content   Content   Colet   Co					m	
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	Coolant (Circle)	Corrected Temp °C	Observed Temp °C	(R Gun #	fer Description (Circle)	Coo

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

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8/13/2024

8/13/2024	Logir	Login Container Summary Report	ort 240-209341
Temperature readings			
Client Sample ID	Lab ID	Container Type	Container Preservation Preservation pH Temp Added Lot Number
TRIP BLANK_60	240-209341-A-1	Voa Vial 40ml - Hydrochloric Acid	
MW-30_080924	240-209341-A-2	Voa Vıal 40ml - Hydrochloric Acid	
MW-30_080924	240-209341-B-2	Voa Vial 40ml - Hydrochloric Acid	
MW-30_080924	240-209341-C-2	Voa Vial 40ml - Hydrochloric Acid	

MW-30\_080924

240-209341-E-2 240-209341-D-2

240-209341-G-2

Voa Vial 40ml - Hydrochloric Acid Voa Vial 40ml - Hydrochloric Acid Voa Vial 40ml - Hydrochloric Acıd

MW-30\_080924

MW-30\_080924

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Page 1 of 1

## DATA VERIFICATION REPORT



August 21, 2024

Megan Meckley Arcadis 28550 Cabot Drive Suite 500 Novi, MI US 48377

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil

Project number: 30206169.0401.04\_WA-02

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 209341-1 Sample date: 2024-08-09

Report received by CADENA: 2024-08-21

Initial Data Verification completed by CADENA: 2024-08-21

Number of Samples:2 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.

The following minor QC exceptions or missing information were noted:

GCMS VOC SIM MS surrogate recovery outliers did not result in qualification of client sample data.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, 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.

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 <a href="http://clms.cadenaco.com/index.cfm">http://clms.cadenaco.com/index.cfm</a>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

**Project Scientist** 

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI  $48108\ 517\text{-}819\text{-}0356$ 

# **CADENA Valid Qualifiers**

Valid Qualifiers	Description							
<	Less than the reported concentration.							
>	Greater than the reported concentration.							
В	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 contaminates) 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.							
Е	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 contaminates) 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: 209341-1** 

		Sample Name:	<del>-</del>				MW-30_080924 2402093412			
		Lab Sample ID:								
		Sample Date:	8/9/2024				8/9/2024			
				Report			Valid Report			Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>0D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	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	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					9.6	2.0	ug/l	