eurofins | Environment Testing

ANALYTICAL REPORT

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

See page two for job notes and contact information.

myEOL

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

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8/21/2024 7:46:37 AM

Authorized for release by
Michael DelMonico, Project Manager I
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(330)497-9396

Table of Contents

Client: Arcadis U.S., Inc.
Job ID: 240-209341-1
Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
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.
¤	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

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.

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

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

Detection Summary

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

Job ID: 240-209341-1

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
1,4-Dioxane	9.6		2.0	0.86	ug/L	1		8260D SIM	Total/NA

This Detection Summary does not include radiochemical test results.

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

Job ID: 240-209341-1

Client Sample ID: TRIP BLANK_60
Date Collected: 08/09/24 00:00
Date Received: 08/13/24 09:30

Lab Sample ID: 240-209341-1
Matrix: Water

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			08/16/24 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 - 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: Arcadis U.S., Inc.
Project/Site: Ford LTP

Job ID: 240-209341-1

Client Sample ID: MW-30_080924

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

Lab Sample ID: 240-209341-2

Matrix: Water

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

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 - 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			08/16/24 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 - 136*		*08/16/24 19:47*	*1*
Toluene-d8 (Surr)	*88*		*78 - 122*		*08/16/24 19:47*	*1*
Dibromofluoromethane (Surr)	*92*		*73 - 120*		*08/16/24 19:47*	*1*

Surrogate Summary

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

Job ID: 240-209341-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		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)

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

Lab Sample ID: MB 240-623588/9
Matrix: Water
Analysis Batch: 623588

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/16/24 12:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 12:24	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 12:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 12:24	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 12:24	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/16/24 12:24	1

Surrogate	*MB %Recovery*	*MB 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*

Lab Sample ID: LCS 240-623588/5
Matrix: Water
Analysis Batch: 623588

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	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		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*62 - 137*
4-Bromofluorobenzene (Surr)	*97*		*56 - 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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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		

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

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

Surrogate	MS %Recovery	MS 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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	5.0	U	125	91.7		ug/L		73	56 - 135	4	26
cis-1,2-Dichloroethene	5.0	U	125	105		ug/L		84	66 - 128	2	14
Tetrachloroethene	100		125	192		ug/L		71	62 - 131	5	20
trans-1,2-Dichloroethene	5.0	U	125	97.6		ug/L		78	56 - 136	4	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		87	43 - 157	5	24

Surrogate	MSD %Recovery	MSD 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

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			08/19/24 10:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*113*		*68 - 127*		*08/19/24 10:25*	*1*

Lab Sample ID: LCS 240-623779/4
Matrix: Water
Analysis Batch: 623779

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	7.84		ug/L		78	75 - 121		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*107*		*68 - 127*

Lab Sample ID: 240-209337-E-2 MS
Matrix: Water
Analysis Batch: 623779

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane	2.0	U	10.0	8.11		ug/L		81	20 - 180		

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

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

Lab Sample ID: 240-209337-E-2 MSD
Matrix: Water
Analysis Batch: 623779

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	2.0	U	10.0	9.36		ug/L		94	20 - 180	14	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*127*		*68 - 127*

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	

Lab Chronicle

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

Job ID: 240-209341-1

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

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared 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

Date Collected: 08/09/24 08:40

Matrix: Water

Date Received: 08/13/24 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared 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.
Project/Site: Ford LTP

Job ID: 240-209341-1

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	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	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

MICHIGAN
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Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

TestAmerica Laboratories, Inc.

Client Contact	Regulatory program:	Site Contact	Lab Contact	COC No:
Company Name: Arcadis	DW NPDES RCRA Other	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	
Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey	Telephone: 248-994-2240	Telephone: 330-497-9396	1 of 1 COCs
City/State/Zip: Novi, MI, 48377	Telephone: 248-994-2240			
Phone: 248-994-2240	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time		For lab use only
Project Name: Ford LTP	Sampler Name: Garrett Link	TAT if different from below: 10 day; 3 weeks, 2 weeks, 1 week, 2 days, 1 day		Walk-in client; Lab sampling; Job/SDG No:
Project Number: 30206169.0401.03	Method of Shipment/Carrier:			
PO # US3410018772	Shipping/Tracking No:			

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (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 8260D	1,4-Dioxane 8260D SIM	Sample Specific Notes / Special Instructions:
J TRIP BLANK_ 60	---	---		1						1					N	G	X	X	X	X	X	X		1 Trip Blank
J MW-30_080924	8/9/24	840		6						6					N	G	X	X	X	X	X	X	X	3 VOAs for 8260D 3 VOAs for 8260D SIM

240-209341 Chain of Custody

Possible Hazard Identification: Non-Hazard; Flammable; Skin Irritant; 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

Special Instructions/QC Requirements & Comments:

Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728
Level IV Reporting requested.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Garrett Link	ARCADIS	8/9/24 1445	Novi cold storage	ARCADIS	8/9/24 1445
	Arcadis	8/12/24 1225		EETA	8/12/24 1225
	EETA	8/12/24 1338	Received in Laboratory by:	EC	8/13/24 900

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Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :**
Barberton Facility

Client Arcadis Site Name

Cooler unpacked by:

Cooler Received on 8-13-24 Opened on 8-13-24

FedEx. 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time Storage Location

Eurofins Cooler # (EC) 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 # (32) (CF (-0.1) °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity (2)	(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# HC442471	
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

8/13/2024

Login Container Summary Report

240-209341

8/21/2024

Temperature readings _____

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number
TRIP BLANK_60	240-209341-A-1	Voa Vial 40ml - Hydrochloric Acid				
MW-30_080924	240-209341-A-2	Voa Vial 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-D-2	Voa Vial 40ml - Hydrochloric Acid				
MW-30_080924	240-209341-E-2	Voa Vial 40ml - Hydrochloric Acid				
MW-30_080924	240-209341-G-2	Voa Vial 40ml - Hydrochloric Acid				

Login # : ____________

Eurofins - Cleveland 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	3.7	3.6	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:	4.3	4.2	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
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EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
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EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None

☐ See Temperature Excursion Form

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

TO EUROFINS BARBERTON
EUROFINS BARBERTON
180 S. VAN BUREN AVENUE

BARBERTON OH 44203
(330) 497-9396

INV#
PO#
DEPT

FedEx Express

TUE - 13 AUG 10:30A
PRIORITY OVERNIGHT

1 of 2
TRK# 0201 7779 2816 6368
MASTER

44203
OH-US CLE

64 CAKA

Part # 159469-434 NTW EXP 03/25

https://www.fedex.com/shipping/shipmentConfirmationAction.handle?method=doContinue

TO EUROFINS BARBERTON
EUROFINS BARBERTON
180 S. VAN BUREN AVENUE

BARBERTON OH 44203
(330) 497-9396

INV#
PO#
DEPT

FedEx Express

TUE - 13 AUG 10:30A
PRIORITY OVERNIGHT

2 of 2
MPS# 0263 7779 2816 6596
Mstr# 7779 2816 6368
0201

44203
OH-US CLE

64 CAKA

https://www.fedex.com/shipping/shipmentConfirmationAction.handle?method=doContinue

8/21/2024

MICHIGAN
190

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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

TestAmerica Laboratories, Inc.

Client Contact	Regulatory program:	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
Company Name: Arcadis	DW NPDES RCRA Other	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	1 of 1 COCs
Address: 28550 Cabot Drive, Suite 500		Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	For lab use only
City/State/Zip: Novi, MI, 48377		Sampler Name: Garrett Link	TAT if different from below: 10 day; 3 weeks / 2 weeks / 1 week / 2 days / 1 day		Walk-in client: Lab sampling:
Phone: 248-994-2240		Method of Shipment/Carrier:			Job/SDG No:
Project Name: Ford LTP		Shipping/Tracking No:			
Project Number: 30206169.0401.03					
PO # US3410018772					

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (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 8260D	1,4-Dioxane 8260D SIM	Sample Specific Notes / Special Instructions:
J TRIP BLANK_60	----	---		1						1					N	G	X	X	X	X	X	X		1 Trip Blank
J MW-30_080924	8/9/24	840		6						6					N	G	x	x	x	x	x	x	x	3 VOAs for 8260D 3 VOAs for 8260D SIM

240-209341 Chain of Custody

Possible Hazard Identification: Non-Hazard / Flammable / Skin Irritant / 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

Special Instructions/QC Requirements & Comments:

Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728
Level IV Reporting requested.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Garrett Link	ARCADIS	8/9/24 1445	Novi cold storage	ARCADIS	8/9/24 1445
	Arcadis	8/12/24 1225		EETA	8/12/24 1225
	EETA	8/12/24 1338	Received in Laboratory by:	EC	8/13/24 900

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Eurofins – Cleveland Sample Receipt Form/Narrative **Login # :** _____
Barberton Facility

Client Arcadis Site Name _____ Cooler unpacked by:

Cooler Received on 8-13-24 Opened on 8-13-24

FedEx 1st Grd (Exp) UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC 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 # 32 (CF -0.1 °C) Observed Cooler Temp _____ °C Corrected Cooler Temp. _____ °C

2.	Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 2	(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)?	(Y) (Y) (Y)
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# HC442471
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. _____

Login # : ______________

Eurofins - Cleveland 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	3.7	3.6	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______	4.3	4.2	Wet Ice Blue Ice Dry Ice Water None
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EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
				☐ See Temperature Excursion Form

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

8/13/2024

Login Container Summary Report

240-209341

8/21/2024

Temperature readings _____

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number
TRIP BLANK_60	240-209341-A-1	Voa Vial 40ml - Hydrochloric Acid				
MW-30_080924	240-209341-A-2	Voa Vial 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-D-2	Voa Vial 40ml - Hydrochloric Acid				
MW-30_080924	240-209341-E-2	Voa Vial 40ml - Hydrochloric Acid				
MW-30_080924	240-209341-G-2	Voa Vial 40ml - Hydrochloric Acid				

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 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 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.
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 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:	TRIP BLANK_60			MW-30_080924			
		Lab Sample ID:	2402093411			2402093412			
		Sample Date:	8/9/2024			8/9/2024			
Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC									
OSW-8260D									
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-8260DSIM									
1,4-Dioxane	123-91-1					9.6	2.0	ug/l	---