PREPARED FOR

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

Generated 8/26/2024 10:21:15 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-209345-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 8/26/2024 10:21:15 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: 240-209345-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.

Job ID: 240-209345-1

Project/Site: Ford LTP

Qualifiers
GC/MS VOA

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

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Case Narrative

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

Job ID: 240-209345-1 Eurofins Cleveland

Job Narrative 240-209345-1

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

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

Eurofins Cleveland

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Job ID: 240-209345-1

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-209345-1

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

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Sample Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-209345-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-209345-1	TRIP BLANK_69	Water	08/09/24 00:00	08/13/24 09:30
240-209345-2	MW-52_080924	Water	08/09/24 13:50	08/13/24 09:30

Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 240-209345-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_69 Lab Sample ID: 240-209345-1

No Detections.

Client Sample ID: MW-52_080924 Lab Sample ID: 240-209345-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.8		2.0	0.86	ug/L	1	_	8260D SIM	Total/NA
Vinyl chloride	1.4		1.0	0.45	ug/L	1		8260D	Total/NA

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-209345-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_69

Date Received: 08/13/24 09:30

Lab Sample ID: 240-209345-1 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 13:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 13:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 13:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 13:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 13:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/16/24 13:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			-		08/16/24 13:30	1
4-Bromofluorobenzene (Surr)	93		56 ₋ 136					08/16/24 13:30	1
Toluene-d8 (Surr)	96		78 - 122					08/16/24 13:30	1
Dibromofluoromethane (Surr)	95		73 - 120					08/16/24 13:30	1

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-209345-1

Project/Site: Ford LTP

Client Sample ID: MW-52_080924

Date Received: 08/13/24 09:30

Lab Sample ID: 240-209345-2 Date Collected: 08/09/24 13:50

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,4-Dioxane	2.8		2.0	0.86	ug/L			08/23/24 13:11	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	100		68 - 127			_		08/23/24 13:11	

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 16:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 16:08	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 16:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 16:08	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 16:08	1
Vinyl chloride	1.4		1.0	0.45	ug/L			08/16/24 16:08	1
Surrogate	%Recovery	Qualifier	Limits			-	Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualit	fier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97	62 - 137		08/16/24 16:08	1
4-Bromofluorobenzene (Surr)	79	56 ₋ 136		08/16/24 16:08	1
Toluene-d8 (Surr)	88	78 - 122		08/16/24 16:08	1
Dibromofluoromethane (Surr)	90	73 - 120		08/16/24 16:08	1

Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 240-209345-1

Project/Site: Ford LTP

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)		
240-209345-1	TRIP BLANK_69	101	93	96	95		
240-209345-2	MW-52_080924	97	79	88	90		
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)	
240-209345-2	MW-52_080924	100	
240-209356-D-2 MS	Matrix Spike	100	
240-209356-D-2 MSD	Matrix Spike Duplicate	99	
LCS 240-624471/4	Lab Control Sample	95	
MB 240-624471/6	Method Blank	103	
Surrogate Legend			

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

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Client: Arcadis U.S., Inc. Job ID: 240-209345-1

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

Lab Sample ID: MB 240-623588/9

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 623588

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
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 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

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

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 ₋ 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Matrix: Water

Analysis Batch: 623588

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

Eurofins Cleveland

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

Job ID: 240-209345-1

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

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

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

Matrix: Water

Analysis Batch: 623588

Dibromofluoromethane (Surr)

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS Surrogate

%Recovery Qualifier 95

MR MR

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 623588

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
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	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

Limits

73 - 120

MSD MSD Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 95 62 - 137 99 4-Bromofluorobenzene (Surr) 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 240-624471/6

Matrix: Water

Analysis Batch: 624471

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

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			08/23/24 09:40	1
	МВ	МВ							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 103 68 - 127 08/23/24 09:40

Lab Sample ID: LCS 240-624471/4

Matrix: Water			Prep Type: Total/NA
Analysis Batch: 624471			
	Spike	LCS LCS	%Rec

Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 9.41 ug/L 75 - 121

LCS LCS %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 95

Lab Sample ID: 240-209356-D-2 MS

Matrix: Water

Analysis Batch: 624471										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	8.67		ug/L		87	20 - 180	

Eurofins Cleveland

Prep Type: Total/NA

QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-209345-1

Project/Site: Ford LTP

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

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1,2-Dichloroethane-d4 (Surr)

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	100		68 - 127									
Lab Sample ID: 240-209	356-D-2 MSD						Clien	t Sa	mple ID	: Matrix S	pike Dur	olicate
Matrix: Water										Prep :	Type: To	tal/NA
Analysis Batch: 624471												
	Sample	Sample	Spike	MSD	MSD					%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	9.48		ug/L		95	20 - 180	9	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								

68 - 127

QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-209345-1

GC/MS VOA

Analysis Batch: 623588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-209345-1	TRIP BLANK_69	Total/NA	Water	8260D	
240-209345-2	MW-52_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: 624471

Lab Sample ID 240-209345-2	Client Sample ID MW-52_080924	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-624471/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-624471/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-209356-D-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-209356-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-209345-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_69

Lab Sample ID: 240-209345-1 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 13:30

Client Sample ID: MW-52_080924 Lab Sample ID: 240-209345-2

Date Collected: 08/09/24 13:50 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 16:08
Total/NA	Analysis	8260D SIM		1	624471	MS	EET CLE	08/23/24 13:11

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: 240-209345-1

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
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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Chain of Custody Record

MICHIGAN 190



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

	7	y iocation.												-							-				
Client Contact Company Name: Arcadis	Regulai	tory program:	:		DW		NP	DES		R	CRA		Otl	her											
Company Name: Arcadis	Client Project	Manager: Kris	Hinsk	cey			Site Co	ntact:	Chri	stina \	Venver				Lub (Contac	t: Mil	ce Del	Monic	0					TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500																									
City/State/Zip: Novi, M1, 48377	Telephone: 248	-994-2240					Telepho	one: 24	18-99	4-2240)				Telep	hone:	330-4	97-93	96						1 of 1 COCs
	Email: kristoff	er.hinskey@ar	cadis.	com			Ans	alysis .	Turni	round	Time		T	T	L			A	naly	ses		_	_		For lab use only
Phone: 248-994-2240							TAT		-																
Project Name: Ford LTP	Sampler Name	rett Li	nK				TATird	illerent t		dim 3 week	.s L														Walk-in client
							10 d	lay	-	2 week	cs														Lab sampling
Project Number: 30206169.0401.03	Method of Ship	ment/Carrier:								1 week 2 days		5	P			8				SIM					
PO # US3410018772	Shipping/Track	cing No:								i day		Office of Security (V. V.)	C/Grab		cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D			Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					Job/SDG No:
				N	latrix		Co	ntaise	rs & P	reserv	atives		Y	3260	E 8	DC	٥	۵	ride	ne 8					
				5	=		-					1 2	Composite	1,1-DCE 8260D	2-DC	-1,2	PCE 8260D	TCE 8260D	왕	iexo.			ļ		Sample Specific Notes /
Sample Identification	Sample Date	Sample Time	Air.	Aqueous	Solid	Other	H1SO4 HNO3	HC	NaOH	0 P	Olher:			2	S-1	rans	GE	CE 8	inyl	4-D				1	Special Instructions:
	Sample Date	Sample 1 line	Ľ	4	2 0	•	= =	Ē	Z	NZ:	9	-	- -	-	-5	F	а.	-	>	-	-	 		-	
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Special fustructions QC Requirements & Comments.																									
Submit all results through Cadena at jtomalia@cadenaco.c Level IV Reporting requested.	om. Cadena #6	203728																							
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	VOA Sample Preservation - Date/Time VOAs Frozen
were further preserved in the laboratory	Sample(s)Preservative(s) added/Lot number(s)
	20. SAMPLE PRESERVATION
were received after the recommended holding time had expired. were received in a broken container were received with bubble >6 mm in diameter (Notify PM)	19. SAMPLE CONDITION Sample(s) were received after the Sample(s) were received v
additional next page Samples processed by:	18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
	Concerning
via Verbal Voice Mail Other	Contacted PMbybybyby
Ass	14. Were VOAs on the COC? 15 Were air bubbles >6 mm in any VOA vials? Larger than this. 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 17 Was a LL Hg or Me Hg trip blank present?
	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 Xo	11 Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC?
ves No Yes No Yes No	9 For each sample, does the COC specify preservatives (XNN), # of contamers (XNN) 10 Were correct bottle(s) used for the test(s) indicated?
_	
(6) (8) (8)	
	 Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)?
A No NA YES	 -Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised?
N SO NO	2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity
mp°C Corrected Cooler Temp°C	IR GUN# 32 (CF - C. / °C) Observed Cooler
	et be Blue Ice Dry Ice Water
None Other	Eurofins Cooler # Foam Box Client Cooler Box Packing material used: Bubble Wrap Foam Plastic Bag N
F	Drop-off Date/Time
Eurofins Courier Other	Cooler Received on 8 / / S Opened on 8 / Opened on 9 / Opened on 8 / Opened on 9 / Opened on 8 / Opened on 9 / Ope
Cooler unpacked by	Site Name
Login#4.	Eurofins = Cleveland Sample Receipt Form/Narrative Barberton Facility

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Login Container Summary Report

Temperature readings

MW-52_080924	MW-52_080924	MW-52_080924	MW-52_080924	MW-52_080924	MW-52_080924	TRIP BLANK_69	Client Sample ID
240-209345-G-2	240-209345-E-2	240-209345-D-2	240-209345-C-2	240-209345-B-2	240-209345-A-2	240-209345-A-1	Lab ID
Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Container Type
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					A THE PROPERTY OF THE PROPERTY		Preservation Preservation Added Lot Number
					anticontraction and the state of the state o		eservation t Number

Page 20 of 31 8/26/2024

Page 1 of 1

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		The state of the s	The state of the s																														7.3	3.7	IR Gun # Observed Corrected (Circle) Temp °C Temp °C	Samnle Receint Mult
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See Temperature Excursion Form	Wet Ice Stue Ice Dry Ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet ice Blue Ice Dry Ice Water None	Wet Ice Bive Ice Dry Ice Water None	Wet ice Blue Ice Dry Ice Water None	Wet Ice Bive Ice Dry Ice Water None	Wet Ice Bive Ice Dry Ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet Ice Blue Ice Dry Ice Waler None	Wet Ice Stue Ice Dry Ice Water None	Wet Ice Stue Ice Dry Ice Water None	Wet ice Blue ice Dry ice Water None	Wet ice Blue ice Dry Ice Water None	Wetice Blueice Drylice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet ice Blue ice Dry ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wetice Blueice Drylice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet Ice Stue Ice Dry Ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet Ice Stue Ice Dry Ice										

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Chain of Custody Record

MICHIGAN 190



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

Client Contact	Regulat	ory program:			DW		NP	DES		7	RCRA			Othe	r		Orace o		osoletika:			•				
Company Name: Arcadis															1											TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500	Client Project !	Manager: Kris	Hinsl	cey		s	ite Cor	ntact:	Chri	istina	Wenv	ver				Lab (Contro	rt: Mi	ke Del	Monic	0					COC No:
City/State/Zip: Novi, M1, 48377	Telephone: 248	-994-2240				Т	clepho	ne: 2	48-99	4-224	10					Telep	hone:	330-4	97-93	96						4 : 4 : 000
	Email: kristoff	er.hinskey@ar	cadis	com			Ann	lysis	Turn	arour	d Tin	ne							A	naly	ses					1 of 1 COCs For lab use only
Phone: 248-994-2240							AT if di																			
Project Name: Ford LTP	Sampler Name	rett L:	nk			I,	Aindi	Herent		3 wee	cks															Walk-in client
Project Number: 30206169.0401.03							10 d	a y	-	2 wee											_					Lab sampling
	Method of Ship	ment/Carrier:								2 day			(N)	D C			8			9	SIN					
PO # US3410018772	Shipping/Track	sing No:			Matrix		Co			1 day	vative		Piltered Sample (Y / N)	Composite=C/Grab	8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D			Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					Job/SDG No
					ā			T		resci			ed San	-osite=	CE 82	2-DCE	-1,2-D	PCE 8260D	TCE 8260D	Chloric	oxane					Sample Specific Notes /
Sample Identification	Sample Date	Sample Time	¥	Aqueos	Solid Other		HINOS	Ξ	NaOH	ZAAU	Unpre		Pilter	Com	1.1-DCE	cis-1.	Trans	PCE 8	TCE 8	Vinyl	1,4-D					Special Instructions:
TRIP BLANK_ 69				1				1					N	G	Х	Х	Х	Х	Х	Х						1 Trip Blank
TRIP BLANK_ 69 MW-52_080924	8/9/24	1350		6				6					N	G	×	×	×	×	×	×	×					3 VOAs for 8260D 3 VOAs for 8260D SIM
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Special Instructions/QC Requirements & Comments:	1013	011 15	7111	ano wit				1421		, C.I.C.			Отаро	34, 5	, 240											
Submit all results through Cadena at jtomalia@cadenaco. Level IV Reporting requested.	com. Cadena #	E203728																								
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VOA Sample Preservation - Date/Time VOAs Frozen
Sample(s)were further preserved in the laboratory Time preservedPreservative(s) added/Lot number(s)
20. SAMPLE PRESERVATION
19 SAMPLE CONDITION were received after the recommended holding time had expired. Sample(s)
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Concerning
Contacted PM Date by via Verbal Voice Mail Other
13 Were all preserved sample(s) at the correct pri upon receipt? 14 Were VOAs on the COC? 15 Were air bubbles >6 mm in any VOA vials? 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 17 Was a LL Hg or Me Hg trip blank present? Yes (YO) Yes (YO) Yes (YO)
If yes, Questions 13-17 have been checked at the originating laboratory
Were correct bottle(s) used for the test(s) indicated? Sufficient quantity received to perform indicated analyses? Yes
with the COC?
Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? YES NO
Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)?
gMeHg)? Yes XXX
29.9
C. / °C) Observed Cooler
et Ice Blue Ice Dry Ice Water None
ox Client Cooler Box Foam Plastic Bag N
Drop-off Date/Time Storage Location
Cooler Received on 8-13-34 Opened on 8-13-34 Feder 1st Grd From 1 IPS FAS Warnoint Client Drop Off Eurofins Courier Other
Site Name
Eurolins = Cleveland Sample Receipt Norm/Narranye Logue : Logu

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Wet ice Blue ice Dry ice	3.6	3.7	IR GUN #:	Ofher	Box	Client	(ਨ)
	Temp °C	Temp °C	(Circle)	otion	Circle)	Cooler Description (Circle)	C

Login Container Summary Report

240-209345

		Anna and and an analysis of the state of the		
Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number	Preservation Added
TRIP BLANK_69	240-209345-A-1	Voa Vial 40ml - Hydrochloric Acid	Annaly to print the latest the la	THE REAL PROPERTY OF THE PROPE
MW-52_080924	240-209345-A-2	Voa Vial 40ml - Hydrochloric Acıd	***************************************	
MW-52_080924	240-209345-B-2	Voa Vial 40ml - Hydrochloric Acid		
MW-52_080924	240-209345-C-2	Voa Vial 40ml - Hydrochloric Acid		
MW-52_080924	240-209345-D-2	Voa Vial 40ml - Hydrochloric Acid		
MW-52_080924	240-209345-E-2	Voa Vial 40ml - Hydrochloric Acid		
MW-52_080924	240-209345-G-2	Voa Vial 40ml - Hydrochloric Acıd		

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Chain of Custody Record

MICHIGAN 190



Client Contact	tAmerica Labora Regulat	ory program:			DW			DES			RCRA			ther							•				E LEADER IN ENVIRONMENTAL TESTING
Company Name: Arcadis																									TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500	Client Project	Manager: Kris	Hinsl	key			Site Co	ntact:	Chri	istina	Weaver				Lab	Cont	ict: Mi	ke De	Monic	0					COC No:
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240					Telepho	one: 2	48-99	4-224	10				Tele	phone	: 330-	97-93	96						
	Email: kristoff	er.hinskey@ar	cadis.	.com			An	alysis	Turn	arour	d Time		Т		٠.	_		A	naly	ses					1 of 1 COCs For lab use only
Phone: 248-994-2240	Sampler Name					-	TATica	hillerent	Guen h	olani.															Walk-in client
Project Name: Ford LTP	Sampler Name	rett Li	nk							3 wee		\neg	3												
Project Number: 30206169.0401.03	Method of Ship	ment/Carrier:					10 d	lay	Ť	2 wee	-k		ء ا و							Σ					Lab sampling
PO # US3410018772	Shipping/Track	one No:								2 day 1 day					8	2600			009	00 S					Job/SDG No:
					latrix					·	vatives				826	CE 8			Je 82	826					70010D 0 1101
Sample Identification	Sample Date	Sample Time	Air		Solid		H2SO4 HNO3	T			Unpres Other:		Composite (7/N)	1 1-DCF 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:
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TRIP BLANK_ 69 MW-52_080924	8/9/24	1350	L	6				6				/	UE	a ×	. ×	×	×	×	×	×					3 VOAs for 8260D SIM
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Possible Hazard Identification			L				Sam	ple Di	sposa	J(A	fee may t	be ass	essed	if sar	ples a	re reti	ined le	nger	han I	monti	h)	l	ــــــــــــــــــــــــــــــــــــــ		
✓ Non-Hazard lammable sin Irrita Special Instructions/QC Requirements & Comments:	nt Poisc	on B	Jnk	nown	-					Clien	ı i	Dis	posal	By La	b		Archiv				lonths		_		
Submit all results through Cadena at jtomalia@cadenacc Level IV Reporting requested.	o.com. Cadena #E	:203728																							
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Relinquished by Omnew Luy	Company:			Date/	2 24		122	5	Res	eived	by ,		2	ب	~			Com	pany:						Date/Time: 8112/24 1225
Relinquished by Felin Hero	Company			Date/	Time 2/24		338		Reco	eived	in Labor			//					рапу		_				8/3-21 900
92008 TestAmquica Laboratories, Inc. All rights reserved TestAmerica & Design ** are trademarks of TestAmerica Laboratories, Inc.											1	/													

Sample(s)	19. SAMPLE CONDITION 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)	18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	Barbertous Racility. Barbertous Basility. Barbertous Basility. Collent Manne Collent Manne Collent Manne Eval 3 Denned on 8 3 34 PedEx. 1º Ged Exp. UPS FAS Wappoint Client Drop Off Eurofins Cooler Reaction Eurofins Cooler Reactive upon recept Plant of the cooler Reactive Manne Cooler Reactive upon recept Cooler temperature upon recept Reactive Water Ayone Coolc.ANT. We Exp. Blie Loc. Dry Ico. Water Ayone COOL.ANT. We Exp. Blie Loc. Dry Ico. Water Ayone COOL.ANT. We Exp. Blie Loc. Dry Ico. Water Ayone COOL.ANT. We Exp. Blie Loc. Dry Ico. Water Ayone COOL.ANT. We Exp. Blie Loc. Dry Ico. Water Ayone COOL.ANT. We Exp. Blie Loc. Dry Ico. Water Ayone COOL.ANT. We Cooler temperature upon recept Cooler temperature upon recept Cooler temperature upon recept R GUN # 22 (CF C. 'C') Observed Cooler Temp R GUN # 22 (CF C. 'C') Observed Cooler Temp C Corrected Cooler Temp C C Corrected Cool

Page 29 of 31

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Coolant (Circle)	Corrected Temp °C	Observed Temp °C	IR Gun # (Circle)	ption	Descrip	Cooler Description (Circle)	ဂ္ဂ
	iltiple Cooler Form	Eurofins - Cleveland Sample Receipt Multiple Cooler Form	Eurofins - Clevelar				

8/13/2024

Login Container Summary Report

Temperature readingsClient Sample ID TRIP BLANK_69 MW-52_080924 MW-52_080924 MW-52_080924	Lab ID 240-209345-A-1 240-209345-A-2 240-209345-B-2 240-209345-C-2	Container Type Voa Vial 40ml - Hydrochloric Acid Voa Vial 40ml - Hydrochloric Acid Voa Vial 40ml - Hydrochloric Acid Voa Vial 40ml - Hydrochloric Acid	Container Preservation Preservation pH Temp Added Lot Number
MW-52_080924	240-209345-A-2	Voa Vial 40ml · Hydrochloric Acid	
MW-52_080924	240-209345-B-2	Voa Vial 40ml - Hydrochloric Acid	
MW-52_080924	240-209345-C-2	Voa Vial 40ml - Hydrochloric Acid	dyperant dyp
MW-52_080924	240-209345-D-2	Voa Vial 40ml - Hydrochloric Acid	- All market and the state of t
MW-52_080924	240-209345-E-2	Voa Vial 40ml - Hydrochloric Acid	
MW-52_080924	240-209345-G-2	Voa Vial 40ml - Hydrochloric Acid	American constitution of the first of the fi

Page 1 of 1

240-209345

DATA VERIFICATION REPORT



August 26, 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: 209345-1 Sample date: 2024-08-09

Report received by CADENA: 2024-08-26

Initial Data Verification completed by CADENA: 2024-08-26

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.

There were no significant QC anomalies or exceptions to report.

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 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: 209345-1

	•		TRIP BLANK_69			MW-52_080924				
	Lab Sample ID:			2402093451				2402093452		
		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-826	<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		1.4	1.0	ug/l	
OSW-8260DSIM										
	1,4-Dioxane	123-91-1					2.8	2.0	ug/l	