PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 12/3/2024 6:55:30 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-215493-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 12/3/2024 6:55:30 AM

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

Laboratory Job ID: 240-215493-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-215493-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

DL, RA, RE, IN

Abbreviation	These commonly used abbreviations may or may not be present in this report.
\tilde	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)

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/DOF)

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)

MDI Matted Detection Limit

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 US Inc. Project: Ford LTP

Job ID: 240-215493-1 Eurofins Cleveland

Job Narrative 240-215493-1

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 11/22/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.2°C.

GC/MS VOA

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

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Job ID: 240-215493-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215493-1

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

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 US Inc.

Project/Site: Ford LTP

Job ID: 240-215493-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-215493-1	TRIP BLANK_123	Water	11/20/24 00:00	11/22/24 08:00
240-215493-2	MW-43_112024	Water	11/20/24 11:15	11/22/24 08:00

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Detection Summary

Client: Arcadis US Inc. Job ID: 240-215493-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_123 Lab Sample ID: 240-215493-1

No Detections.

Client Sample ID: MW-43_112024 Lab Sample ID: 240-215493-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	Method	Prep Type
1,4-Dioxane	3.3	2.0	0.86 ug/L	1	8260D SIM	Total/NA

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-215493-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_123

Lab Sample ID: 240-215493-1 Date Collected: 11/20/24 00:00

Matrix: Water

Date Received: 11/22/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/25/24 22:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/25/24 22:51	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 22:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/25/24 22:51	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 22:51	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/25/24 22:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	131		62 - 137			_		11/25/24 22:51	1
4-Bromofluorobenzene (Surr)	81		56 ₋ 136					11/25/24 22:51	1
Toluene-d8 (Surr)	97		78 - 122					11/25/24 22:51	1
Dibromofluoromethane (Surr)	114		73 - 120					11/25/24 22:51	1

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-215493-1

Project/Site: Ford LTP

Date Received: 11/22/24 08:00

Client Sample ID: MW-43_112024

Lab Sample ID: 240-215493-2 Date Collected: 11/20/24 11:15

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.3		2.0	0.86	ug/L			11/28/24 01:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		68 - 127			-		11/28/24 01:00	1
- Method: SW846 8260D - Volati	le 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			11/25/24 23:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/25/24 23:11	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 23:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/25/24 23:11	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 23:11	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/25/24 23:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		62 - 137			-		11/25/24 23:11	1
4-Bromofluorobenzene (Surr)	81		56 ₋ 136					11/25/24 23:11	1
Toluene-d8 (Surr)	93		78 - 122					11/25/24 23:11	1
Dibromofluoromethane (Surr)	109		73 - 120					11/25/24 23:11	1

Surrogate Summary

Client: Arcadis US Inc. Job ID: 240-215493-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-215493-1	TRIP BLANK_123	131	81	97	114
240-215493-2	MW-43_112024	121	81	93	109
240-215498-A-2 MSD	Matrix Spike Duplicate	105	93	94	96
240-215498-C-2 MS	Matrix Spike	111	96	98	99
LCS 240-636697/4	Lab Control Sample	113	102	102	103
MB 240-636697/7	Method Blank	124	87	98	111

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)	
240-215493-2	MW-43_112024	101	
240-215598-B-2 MS	Matrix Spike	106	
240-215598-B-2 MSD	Matrix Spike Duplicate	97	
LCS 240-637038/5	Lab Control Sample	99	
MB 240-637038/7	Method Blank	106	
Surrogate Legend			
DCA = 1,2-Dichloroetha	ne-d4 (Surr)		

Client: Arcadis US Inc. Job ID: 240-215493-1 Project/Site: Ford LTP

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

Lab Sample ID: MB 240-636697/7

Matrix: Water

Analysis Batch: 636697

Cheffic Sample ID. Welfiod 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			11/25/24 21:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/25/24 21:11	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 21:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/25/24 21:11	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/25/24 21:11	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/25/24 21:11	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		62 - 137		11/25/24 21:11	1
4-Bromofluorobenzene (Surr)	87		56 - 136		11/25/24 21:11	1
Toluene-d8 (Surr)	98		78 - 122		11/25/24 21:11	1
Dibromofluoromethane (Surr)	111		73 - 120		11/25/24 21:11	1

Lab Sample ID: LCS 240-636697/4

Matrix: Water

Analysis Batch: 636697

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	26.5		ug/L		106	63 - 134	
	cis-1,2-Dichloroethene	25.0	26.2		ug/L		105	77 - 123	
	Tetrachloroethene	25.0	26.9		ug/L		108	76 - 123	
	trans-1,2-Dichloroethene	25.0	27.4		ug/L		110	75 - 124	
	Trichloroethene	25.0	24.5		ug/L		98	70 - 122	
	Vinyl chloride	12.5	14.3		ug/L		114	60 - 144	
Н									

	LCS LCS					
Surrogate	%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	113		62 _ 137			
4-Bromofluorobenzene (Surr)	102		56 ₋ 136			
Toluene-d8 (Surr)	102		78 - 122			
Dibromofluoromethane (Surr)	103		73 - 120			

Lab Sample ID: 240-215498-A-2 MSD

Matrix: Water

Analysis Batch: 636697

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

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	25.0	25.3		ug/L		101	56 - 135	4	26
cis-1,2-Dichloroethene	2.6		25.0	28.3		ug/L		103	66 - 128	1	14
Tetrachloroethene	1.0	U	25.0	24.7		ug/L		99	62 - 131	9	20
trans-1,2-Dichloroethene	1.0	U	25.0	27.0		ug/L		108	56 - 136	1	15
Trichloroethene	1.0	U	25.0	24.5		ug/L		98	61 - 124	3	15
Vinyl chloride	1.0	U	12.5	13.7		ug/L		110	43 - 157	4	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		62 - 137
4-Bromofluorobenzene (Surr)	93		56 - 136
Toluene-d8 (Surr)	94		78 - 122

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Job ID: 240-215493-1

Client: Arcadis US Inc. Project/Site: Ford LTP

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

Lab Sample ID: 240-215498-A-2 MSD

Matrix: Water

Analysis Batch: 636697

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

MSD MSD

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 96 73 - 120

Lab Sample ID: 240-215498-C-2 MS

Matrix: Water

Analysis Batch: 636697

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	1.0	U	25.0	26.3		ug/L		105	56 - 135	
cis-1,2-Dichloroethene	2.6		25.0	28.0		ug/L		101	66 - 128	
Tetrachloroethene	1.0	U	25.0	27.0		ug/L		108	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	27.4		ug/L		109	56 - 136	
Trichloroethene	1.0	U	25.0	25.2		ug/L		101	61 - 124	
Vinyl chloride	1.0	U	12.5	13.2		ug/L		106	43 - 157	

MS MS

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Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		62 - 137
4-Bromofluorobenzene (Surr)	96		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

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

Lab Sample ID: MB 240-637038/7

Matrix: Water

Analysis Batch: 637038

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	I	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L				11/27/24 22:16	1
	МВ	МВ								

Surrogate %Recovery Qualifier Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 106 68 - 127 11/27/24 22:16

Lab Sample ID: LCS 240-637038/5	Client Sample ID: Lab Control Sample
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 637038	

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 7.60 ug/L

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 99

Lab Sample ID: 240-215598-B-2 MS

Matrix: Water

Analysis Batch: 637038

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit)	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	8.33		ug/L		83	20 - 180	

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QC Sample Results

Client: Arcadis US Inc. Job ID: 240-215493-1

Project/Site: Ford LTP

MSD MSD

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		68 - 127

Lab Sample	ID: 240-21	5598-B-2	MSD

Matrix: Water

Analysis Batch: 637038

	Sample	Sample	Spike
Analyte	Result	Qualifier	Added
1,4-Dioxane	2.0	U	10.0
	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		68 - 127

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

RPD

Result Qualifier Limits RPD Limit Unit D %Rec 20 9.06 20 - 180 ug/L 8

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215493-1

GC/MS VOA

Analysis Batch: 636697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-215493-1	TRIP BLANK_123	Total/NA	Water	8260D	
240-215493-2	MW-43_112024	Total/NA	Water	8260D	
MB 240-636697/7	Method Blank	Total/NA	Water	8260D	
LCS 240-636697/4	Lab Control Sample	Total/NA	Water	8260D	
240-215498-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-215498-C-2 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 637038

Lab Sample ID 240-215493-2	Client Sample ID MW-43_112024	Prep Type Total/NA	Water	Method 8260D SIM	Prep Batch
MB 240-637038/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-637038/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-215598-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-215598-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-215493-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_123

Lab Sample ID: 240-215493-1 Date Collected: 11/20/24 00:00

Matrix: Water

Date Received: 11/22/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	636697	LEE	EET CLE	11/25/24 22:51

Client Sample ID: MW-43_112024 Lab Sample ID: 240-215493-2

Date Collected: 11/20/24 11:15 Matrix: Water

Date Received: 11/22/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	636697	LEE	EET CLE	11/25/24 23:11
Total/NA	Analysis	8260D SIM		1	637038	R5XG	EET CLE	11/28/24 01:00

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215493-1

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
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
owa	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 Hampshire	NELAP	225024	09-30-25
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	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-24

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Chain of Custody Record

TestAmerica

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

Client Contact	Regula	tory program:		DW	F N	PDES	F	RCRA		Othe	r _								
Company Name: Arcadis	Client Project	Manager: Kris H	inskey	-	Site Contact: Christina Weaver Lab Contact:						act: M	ike Del	Monic	•			stAmerica Laboratories, Inc.		
Address: 28550 Cabot Drive, Suite 500			•			T-I													
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240			Analysis Turnaround Time TAT if different from below 3 weeks					elephone: 330-497-9396				- 1-	1 of 1 COCs				
	Email: kristoff	er.hinskey@arca	dis.com							Analyses					Fo	For lab use only			
Phone: 248-994-2240	Sampler Name														w	Walk-in client			
Project Name: Ford LTP	Sampler Name	Jerem	Myers	,															
Project Number: 30206169.0401.03	Method of Ship		J. PC.		[] week								Lab sampling						
PO # US3410018772	Shipping/Tracl	ring No.			-	2 days			2560D					Tol	Joh/SDG No:				
	Surpping/17aci	dag No.			Containers & Preservatives				8260D CE 8260 le 8260D					300	Job/SDG No:				
Sample Identification	Sample Date	Sample Time	Air Aqurous Sediment				NaOH ZnAci	z	Filtered Sample (Y / N)	Composite-C/Grab=G	1,1-DCE 826	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_ 173			1			1	1 1 1 2		N	=		X X	X	X	X			_	1 Trip Blank
				+-	++	1	+			7	7			, ,	1	+	- -	_	3 VOAs for 8260D
MW-73_117024	u lu	11:15	0			6			N	U	2)	X X	X	_	\ 	X			3 VOAs for 8260D SIM
														I CO					
					\sqcap	++			\top				П	C.		<u>~</u>	111	M	CHIGAN
													- 2	240-2	1549	3 COC			190
Possible Hazard Identification					Sam	ple Dis	nosai (A	fee may	be assess	ed if s	cample	arc ret	ined lo	nger t	han 1 r	nonth)			
	Irritant Poisc	n B	Jnknown		ſ		n to Clie		Dispos				Archiv			Months			
Special Instructions/QC Requirements & Comments: (Submit all results through Cadena at jtomalia@cade Level IV Reporting requested.	Ô15i ∤ C enaco.com. Cadena #8	203728																	
Relinquished by:	Company:	cadis	Date/Time	olly	(3)		Received	.000.	Co	(d	51.	wzy(Comp	1	1 rodis			te/Time:
Relinquished by	Company:	ades	Date/Time	1/24	12	25	Received	X	A	2	9			Comp		2-7	A	1	1/21/24 1272
Metal State of State	Company	1A	Date/Time		12)	3D		in Labor			ns	κn		Com	any:	w		Da	1/22/24 050

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Euroffus - Cleveland Sample Receipt Form/Narrative Login # :
Cooler Received on 11/22/24 Opened on 11/22/24 UPS FAS Waynount Client Drop Off—Furnifing Courter Other
off Date/Time Storage I Foam Box Client Cooler Box Othe
COOLANT Walle Blue Ice Dry Ice Water None
pt [TO.] °C) Observed Cooler T
Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes No -Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? -Were tamper/custody seals intact and uncompromised?
366 F
7. Did all bottles arrive in good condition (Unbroken)? 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? (Yes No
For each sample, does the COC specify preservatives (YN), # of containers (YN), and san Were correct bottle(s) used for the test(s) indicated?
12. Are these work share samples and all listed on the COC? If yes, Questions 13-17 have been checked at the originating laboratory 13. When all property of the original formula (a) at the originating laboratory 13. When all property of the original formula (a) at the original formula (b) at the original formula (c) at the original formula (c).
Yes No NA Lot # (0327) Yes No Yes No Yes No
Contacted PM Date by via Verbal Voice Mail Other Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
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)
Sample(s)were further preserved in the laboratory Time preserved:Preservative(s) added/Lot number(s)were further preserved in the laboratory
VOA Sample Preservation - Date/Time VOAs Frozen.

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Login Container Summary Report

240-215493

Temperature readings			1:
Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number
TRIP BLANK_123	240-215493-A-1	Voa Vial 40ml - Hydrochloric Acıd	
MW-43_112024	240-215493-A-2	Voa Vial 40ml - Hydrochloric Acid	
MW-43_112024	240-215493-B-2	Voa Vial 40ml - Hydrochloric Acid	
MW-43_112024	240-215493-C-2	Voa Vial 40ml - Hydrochloric Acid	
MW-43_112024	240-215493-D-2	Voa Vial 40ml - Hydrochloric Acid	
MW-43_112024	240-215493-E-2	Voa Vial 40ml - Hydrochloric Acid	
MW-43_112024	240-215493-G-2	Voa Vial 40ml - Hydrochloric Acıd	

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DATA VERIFICATION REPORT



December 04, 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-03

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

Laboratory submittal: 215493-1 Sample date: 2024-11-20

Report received by CADENA: 2024-12-03

Initial Data Verification completed by CADENA: 2024-12-04

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: 215493-1

		Sample Name: TRIP BLANK_123					MW-43_112024					
		Lab Sample ID:	240215	4931			2402154932					
		Sample Date:	11/20/2	11/20/2024 Report			11/20/2024					
								Report	Valid			
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier		
GC/MS VOC												
OSW-826	<u> 00D</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-826	<u>ODSIM</u>											
	1,4-Dioxane	123-91-1					3.3	2.0	ug/l			