PREPARED FOR

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

Generated 11/19/2024 6:41:51 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-214623-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 11/19/2024 6:41:51 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: 240-214623-1

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Definitions/Glossary

Client: Arcadis US Inc.

Job ID: 240-214623-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

F1 MS and/or MSD recovery exceeds control limits.
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 US Inc. Project: Ford LTP

Job ID: 240-214623-1 Eurofins Cleveland

Job Narrative 240-214623-1

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 11/9/2024 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 2.0°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: 240-214623-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-214623-1

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 US Inc.

Project/Site: Ford LTP

Job ID: 240-214623-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-214623-1	TRIP BLANK_10	Water	11/06/24 00:00	11/09/24 08:00
240-214623-2	MW-88S_110624	Water	11/06/24 13:52	11/09/24 08:00

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Detection Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-214623-1

Client Sample ID: TRIP BLANK_10 Lab Sample ID: 240-214623-1

No Detections.

No Detections.

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-214623-1

Project/Site: Ford LTP

Date Received: 11/09/24 08:00

Client Sample ID: TRIP BLANK_10

Lab Sample ID: 240-214623-1 Date Collected: 11/06/24 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			11/16/24 17:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/24 17:48	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/24 17:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/24 17:48	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/24 17:48	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/24 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137			_		11/16/24 17:48	1
4-Bromofluorobenzene (Surr)	99		56 ₋ 136					11/16/24 17:48	1
Toluene-d8 (Surr)	102		78 - 122					11/16/24 17:48	1
Dibromofluoromethane (Surr)	102		73 - 120					11/16/24 17:48	

11/19/2024

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-214623-1

Project/Site: Ford LTP

Trichloroethene

Client Sample ID: MW-88S_110624

Date Collected: 11/06/24 13:52

1.0 U

Lab Sample ID: 240-214623-2 Matrix: Water

11/16/24 18:11

Date Received: 11/09/24 08:00

Method: SW846 8260D SIM - \	/olatile Organic C	ompounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/12/24 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)	95		68 - 127			_		11/12/24 16:57	
- (-)		ounds by G						11/12/24 10.5/	,
Method: SW846 8260D - Volat Analyte	ile Organic Comp	ounds by G		MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: SW846 8260D - Volat	ile Organic Comp	Qualifier	GC/MS		Unit ug/L	<u>D</u> .	Prepared		Dil Fac
Method: SW846 8260D - Volat Analyte	ile Organic Comp	Qualifier U	GC/MS		ug/L	<u>D</u> .	Prepared	Analyzed	Dil Fac 1
Method: SW846 8260D - Volat Analyte 1,1-Dichloroethene	ile Organic Comp Result	Qualifier U	GC/MS RL 1.0	0.49	ug/L ug/L	<u> </u>	Prepared	Analyzed 11/16/24 18:11	Dil Fac 1 1 1

Vinyl chloride	1.0 U	1.0	0.45 ug/L		11/16/24 18:11	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101	62 - 137			11/16/24 18:11	1
4-Bromofluorobenzene (Surr)	94	56 ₋ 136			11/16/24 18:11	1
Toluene-d8 (Surr)	99	78 - 122			11/16/24 18:11	1
Dibromofluoromethane (Surr)	101	73 - 120			11/16/24 18:11	1

1.0

0.44 ug/L

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Surrogate Summary

Client: Arcadis US Inc.

Job ID: 240-214623-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-214619-A-2 MS	Matrix Spike	96	104	107	101
240-214619-D-2 MSD	Matrix Spike Duplicate	97	97	100	102
240-214623-1	TRIP BLANK_10	97	99	102	102
240-214623-2	MW-88S_110624	101	94	99	101
LCS 240-635551/4	Lab Control Sample	95	98	98	96
MB 240-635551/7	Method Blank	100	102	101	96

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)	
240-214623-2	MW-88S_110624	95	
500-259759-B-1 MS	Matrix Spike	84	
500-259759-B-1 MSD	Matrix Spike Duplicate	98	
LCS 240-634921/5	Lab Control Sample	89	
MB 240-634921/8	Method Blank	90	
Surrogate Legend			

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

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Client: Arcadis US Inc. Job ID: 240-214623-1

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

Lab Sample ID: MB 240-635551/7

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 635551

Client 9	Sample ID: Method Blank	
	Pren 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			11/16/24 12:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/24 12:50	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/24 12:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/24 12:50	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/24 12:50	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/24 12:50	1

MB MB Qualifier Dil Fac Surrogate %Recovery Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 100 62 - 137 11/16/24 12:50 4-Bromofluorobenzene (Surr) 102 56 - 136 11/16/24 12:50 Toluene-d8 (Surr) 101 78 - 122 11/16/24 12:50 Dibromofluoromethane (Surr) 96 73 - 120 11/16/24 12:50

Lab Sample ID: LCS 240-635551/4

Matrix: Water

Analysis Batch: 635551

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	25.4		ug/L		101	63 - 134	
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	77 - 123	
Tetrachloroethene	25.0	25.1		ug/L		101	76 - 123	
trans-1,2-Dichloroethene	25.0	22.6		ug/L		90	75 - 124	
Trichloroethene	25.0	23.7		ug/L		95	70 - 122	
Vinyl chloride	12.5	8.39		ug/L		67	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		62 _ 137
4-Bromofluorobenzene (Surr)	98		56 ₋ 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-214619-A-2 MS

Matrix: Water

Analysis Batch: 635551

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	23.6		ug/L		94	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	25.1		ug/L		100	66 - 128	
Tetrachloroethene	1.0	U	25.0	22.5		ug/L		90	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	22.7		ug/L		91	56 - 136	
Trichloroethene	1.0	U	25.0	21.0		ug/L		84	61 - 124	
Vinyl chloride	1.0	U F1	12.5	7.56		ug/L		60	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	104		56 - 136
Toluene-d8 (Surr)	107		78 - 122

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Job ID: 240-214623-1

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

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

Lab Sample ID: 240-214619-A-2 MS

Matrix: Water

Analysis Batch: 635551

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 101 73 - 120

Lab Sample ID: 240-214619-D-2 MSD

Matrix: Water

Analysis Batch: 635551

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	24.0		ug/L		96	56 - 135	2	26
cis-1,2-Dichloroethene	1.0	U	25.0	23.9		ug/L		96	66 - 128	5	14
Tetrachloroethene	1.0	U	25.0	22.7		ug/L		91	62 - 131	1	20
trans-1,2-Dichloroethene	1.0	U	25.0	22.0		ug/L		88	56 - 136	3	15
Trichloroethene	1.0	U	25.0	21.6		ug/L		86	61 - 124	3	15
Vinyl chloride	1.0	U F1	25.0	8.30	F1	ug/L		33	43 - 157	9	24

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 97 62 - 137 97 4-Bromofluorobenzene (Surr) 56 - 136 Toluene-d8 (Surr) 100 78 - 122 Dibromofluoromethane (Surr) 102 73 - 120

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

Lab Sample ID: MB 240-634921/8

Matrix: Water

Analysis Batch: 634921

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

75 - 121

Prep Type: Total/NA

Prep Type: Total/NA

MR MR Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 11/12/24 11:52 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 90 68 - 127 11/12/24 11:52

Lab Sample ID: LCS 240-634921/5

Matrix: Water

1,4-Dioxane

Analysis Batch: 634921

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits

10.0

LCS LCS %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 89

Lab Sample ID: 500-259759-B-1 MS

Matrix: Water

Analysis Batch: 634921

9759-B-1 MS				Client Sample ID: Matrix Spike
_				Prep Type: Total/NA
1	-l- 0l-	0-9-	MO MO	0/ D

ug/L

7.55

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 1.7 J 10.0 7.06 ug/L 54 20 - 180

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QC Sample Results

Client: Arcadis US Inc. Job ID: 240-214623-1

Project/Site: Ford LTP

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		68 - 127

Lab Sample ID: 500-259	9759-B-1 MSD

Matrix: Water

Analysis Batch: 634921

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	1.7	J	10.0	7.70		ug/L		60	20 - 180	9	20

MSD MSD Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 98 68 - 127

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-214623-1

GC/MS VOA

Analysis Batch: 634921

Lab Sample ID 240-214623-2	Client Sample ID MW-88S_110624	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-634921/8	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-634921/5	Lab Control Sample	Total/NA	Water	8260D SIM	
500-259759-B-1 MS	Matrix Spike	Total/NA	Water	8260D SIM	
500-259759-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 635551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-214623-1	TRIP BLANK_10	Total/NA	Water	8260D	<u> </u>
240-214623-2	MW-88S_110624	Total/NA	Water	8260D	
MB 240-635551/7	Method Blank	Total/NA	Water	8260D	
LCS 240-635551/4	Lab Control Sample	Total/NA	Water	8260D	
240-214619-A-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-214619-D-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-214623-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_10

Lab Sample ID: 240-214623-1 Date Collected: 11/06/24 00:00

Matrix: Water

Date Received: 11/09/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	635551	LEE	EET CLE	11/16/24 17:48

Client Sample ID: MW-88S_110624 Lab Sample ID: 240-214623-2

Date Collected: 11/06/24 13:52 Matrix: Water

Date Received: 11/09/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	635551	LEE	EET CLE	11/16/24 18:11
Total/NA	Analysis	8260D SIM		1	634921	R5XG	EET CLE	11/12/24 16:57

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: 240-214623-1

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	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		
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 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 Regulatory program: MPDES RCRA Other TestAmerica Laboratories, Inc. Company Name: Arcadis Lab Contact: Mike DelMonico Client Project Manager: Kris Hinskey Site Contact: Christina Weaver COC No: Address: 28550 Cabot Drive, Suite 500 Telephone: 330-497-9396 Telephone: 248-994-2240 Telephone: 248-994-2240 COCs City/State/Zip: Novi, MI, 48377 1 of 1 Analysis Turnaround Time Analyses For lab use only Email: kristoffer.hinskey@arcadis.com Phone: 248-994-2240 TAT if different from below Walk-in client Sampler Name: Project Name: Ford LTP 3 weeks Notan Schendel 2 weeks Lab sampling Project Number: 30206169.0401.03 I week I.4-Dioxane 8260D SIM 2 days /inyl Chloride 8260D □ 1 day PO # US3410018772 Shipping/Tracking No: Job/SDG No. Matrix Containers & Preservatives PCE 8260D TCE 8260D Sample Specific Notes / Sediment Solid HCI NaOH H2SO4 HNO3 Special Instructions: Sample Identification Sample Date Sample Time TRIP BLANK_ 10 NG Χ Х 1 Trip Blank 3 VOAs for 8260D MW-885_110624 6 X 11/06/24 13.52 义 y K 3 VOAs for 8260D SIM 240-214623 COC Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Non-Hazard i 'lammable in Irritant Poison B ☐ Jnknown Return to Client Disposal By Lab Archive For Special Instructions/QC Requirements & Comments: 34965 Wudsworth Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728 Level IV Reporting requested. Date/Time: Received by: Company: Arad. S Company: ArcodiS 1106/24 16:00 WOVI cold Storage FEM

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Login Container Summary Report

240-214623

11/9/2024	Logii	Login Container Summary Report		240-214023	/2024
Temperature readings			To the state of th		11/19
Client Sample ID	<u>Lab ID</u>	Container Type	Container PreserpH Temp Added	Preservation Preservation Added Lot Number	
TRIP BLANK_10	240-214623-A-1	Voa Vial 40ml - Hydrochloric Acid			
MW-88S_110624	240-214623-A-2	Voa Vial 40ml - Hydrochloric Acid		- Andrew	
MW-88S_110624	240-214623-B-2	Voa Vial 40ml - Hydrochloric Acıd	The state of the s		
MW-88S_110624	240-214623-C-2	Voa Vial 40ml - Hydrochloric Acid	146		
MW-88S_110624	240-214623-D-2	Voa Vial 40ml - Hydrochloric Acid		**************************************	***************************************
MW-88S_110624	240-214623-E-2	Voa Vıal 40ml - Hydrochlorıc Acid	The second desired the second	* The state of the	
MW-88S_110624	240-214623-G-2	Voa Vial 40ml - Hydrochloric Acid			

Page 1 of 1

DATA VERIFICATION REPORT



November 19, 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: 214623-1 Sample date: 2024-11-06

Report received by CADENA: 2024-11-19

Initial Data Verification completed by CADENA: 2024-11-19

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 QC batch MS/MSD recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

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 $48108\ 517\text{-}819\text{-}0356$

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 214623-1

		Sample Name:	TRIP BL	ANK_10			MW-889	5_11062	4	
		Lab Sample ID:	240214	6231			240214	6232		
		Sample Date:	11/6/20	24			11/6/20	24		
				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		ND	1.0	ug/l	
OSW-826	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-214623-1

CADENA Verification Report: 2024-11-19

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 56854R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-214623-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Ana	lysis	
Sample ID	Labib	Wallix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_10	240-214623-1	Water	11/06/2024		X	
MW-88S_110624	240-214623-1	Water	11/06/2024		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Rep	orted	Perfor Accep	mance otable	Not Required
	No	Yes	No	Yes	Required
Sample receipt condition		Х		X	
2. Requested analyses and sample results		Х		X	
Master tracking list		X		Х	
4. Methods of analysis		X		Х	
5. Reporting limits		X		Х	
6. Sample collection date		X		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		X		Х	
9. Sample preparation/extraction/analysis dates		Х		X	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable, and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted	Perfo	Not Required	
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation			'	'	
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	X				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Febin J S

SIGNATURE:

DATE: December 23, 2024

PEER REVIEW: Andrew Korycinski

DATE: December 23, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

<u>TestAmerica</u>

Client Contact	.merica Labora] Regulat	ory program:		PT 1			NPE			ſ⁻ RC			Other					_									
Company Name: Arcadis														1												nerica Labor	atories, Inc.
Address: 28550 Cabot Drive, Suite 500	Client Project !	Manager: Kris l	Hinskey			Site	Con	tact:	Chri	istina W	eaver			,	Lab Co	ntact:	act: Mike DelMonico							G	COC No:		
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City/State/Zip: Novi, M1, 48377	Email: kristoff	er.hinskey@arc	adis.com	1			Ana	ysis 1	lura	around	Time							An	alyse	s		+		 ;		use only	COCs
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Definitions/Glossary

Client: Arcadis US Inc.

Job ID: 240-214623-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

 Qualifier
 Qualifier Description

 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

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-214623-1 Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_10

Lab Sample ID: 240-214623-1

Date Collected: 11/06/24 00:00 **Matrix: Water** Date Received: 11/09/24 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			11/16/24 17:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/24 17:48	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/24 17:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/24 17:48	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/24 17:48	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/24 17:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137			_		11/16/24 17:48	1
4-Bromofluorobenzene (Surr)	99		56 ₋ 136					11/16/24 17:48	1
Toluene-d8 (Surr)	102		78 - 122					11/16/24 17:48	1
Dibromofluoromethane (Surr)	102		73 - 120					11/16/24 17:48	1

Client Sample ID: MW-88S_110624 Lab Sample ID: 240-214623-2

Date Collected: 11/06/24 13:52 Date Received: 11/09/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/12/24 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		68 - 127			-		11/12/24 16:57	1
Method: SW846 8260D - Volati	ile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/16/24 18:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/24 18:11	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/24 18:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/24 18:11	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/24 18:11	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/24 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			_		11/16/24 18:11	1
4-Bromofluorobenzene (Surr)	94		56 ₋ 136					11/16/24 18:11	1
Toluene-d8 (Surr)	99		78 - 122					11/16/24 18:11	1
Dibromofluoromethane (Surr)	101		73 - 120					11/16/24 18:11	1

Matrix: Water