

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 11/27/2024 11:24:17 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-215296-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Cleveland

Job Notes

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

Authorization

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Qualifiers

Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	
*+	LCS and/or LCSD is outside acceptance limits, high biased.	
F2	MS/MSD RPD exceeds control limits	5
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.	
<u></u>	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	ð
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	9
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)	13
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	
- PD :F :Q	Reporting Limit or Requested Limit (Radiochemistry) Relative Percent Difference, a measure of the relative difference between two points Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)	

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Job Narrative 240-215296-1

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 11/20/2024 8:00 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 1.8°C and 1.9°C.

GC/MS VOA

Method 8260D: The laboratory control sample (LCS) for analytical batch 240-636481 recovered outside control limits for the following analytes: cis-1,2-Dichloroethene and Trichloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

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

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

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-215296-1	TRIP BLANK_118	Water	11/18/24 00:00	11/20/24 08:00
240-215296-2	MW-135S_111824	Water	11/18/24 11:15	11/20/24 08:00
240-215296-3	MW-134S_111824	Water	11/18/24 12:10	11/20/24 08:00

Detection Summary		1
Client: Arcadis US Inc. Project/Site: Ford LTP	Job ID: 240-215296-1	2
Client Sample ID: TRIP BLANK_118	Lab Sample ID: 240-215296-1	
No Detections.		
Client Sample ID: MW-135S_111824	Lab Sample ID: 240-215296-2	4
No Detections.		5
Client Sample ID: MW-134S_111824	Lab Sample ID: 240-215296-3	6
No Detections.		7
		8
		9
		1

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

Client Sample ID: TRIP BLANK_118

Date Collected: 11/18/24 00:00 Date Received: 11/20/24 08:00

Method: SW846 8260D - Volati	le Organic Comp	ounds by G	SC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/23/24 21:07	1
cis-1,2-Dichloroethene	1.0	U *+	1.0	0.46	ug/L			11/23/24 21:07	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 21:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 21:07	1
Trichloroethene	1.0	U *+	1.0	0.44	ug/L			11/23/24 21:07	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/24 21:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137			-		11/23/24 21:07	1
4-Bromofluorobenzene (Surr)	93		56 - 136					11/23/24 21:07	1
Toluene-d8 (Surr)	99		78 - 122					11/23/24 21:07	1
Dibromofluoromethane (Surr)	97		73 - 120					11/23/24 21:07	1

Job ID: 240-215296-1

Lab Sample ID: 240-215296-1

Matrix: Water

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Client Sample ID: MW-135S_111824

Date Collected: 11/18/24 11:15 Date Received: 11/20/24 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			11/25/24 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		11/25/24 18:30	1
Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	C/MS						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/24/24 04:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/24/24 04:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/24/24 04:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/24/24 04:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/24/24 04:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/24/24 04:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137			-		11/24/24 04:54	1
4-Bromofluorobenzene (Surr)	99		56 - 136					11/24/24 04:54	1
Toluene-d8 (Surr)	100		78 - 122					11/24/24 04:54	1
Dibromofluoromethane (Surr)	98		73 - 120					11/24/24 04:54	1

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Job ID: 240-215296-1

Lab Sample ID: 240-215296-2 Matrix: Water

2

Client Sample ID: MW-134S_111824

Date Collected: 11/18/24 12:10 Date Received: 11/20/24 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			11/25/24 18:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		68 - 127			-		11/25/24 18:54	1
Method: SW846 8260D - Volati	ile Organic Comr	ounds by C	C/MS						
Analyte	· ·	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/24/24 05:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/24/24 05:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/24/24 05:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/24/24 05:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/24/24 05:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/24/24 05:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137			-	-	11/24/24 05:17	1
4-Bromofluorobenzene (Surr)	98		56 - 136					11/24/24 05:17	1
Toluene-d8 (Surr)	100		78 - 122					11/24/24 05:17	1
Dibromofluoromethane (Surr)	98		73 - 120					11/24/24 05:17	1

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Lab Sample ID: 240-215296-3 Matrix: Water

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

				Percent Sur	rogate Recovery (Acce	ptance Limits)	
		DCA	BFB	TOL	DBFM		- 1
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)		
240-214873-A-9 MS	Matrix Spike	103	102	101	95		_
240-214873-C-9 MSD	Matrix Spike Duplicate	101	104	102	94		
240-215294-B-2 MS	Matrix Spike	94	88	93	99		
240-215294-B-2 MSD	Matrix Spike Duplicate	93	103	99	97		
240-215296-1	TRIP BLANK_118	94	93	99	97		
240-215296-2	MW-135S_111824	112	99	100	98		
240-215296-3	MW-134S_111824	112	98	100	98		
LCS 240-636481/5	Lab Control Sample	100	104	108	105		
LCS 240-636489/4	Lab Control Sample	101	101	100	93		
MB 240-636481/9	Method Blank	95	93	99	97		
MB 240-636489/9	Method Blank	109	100	99	99		
Surrogate Legend							
DCA = 1,2-Dichloroetha	ne-d4 (Surr)						
BFB = 4-Bromofluorobe	nzene (Surr)						
TOL = Toluene-d8 (Surr)						
DBFM = Dibromofluoror	methane (Surr)						
	I - Volatile Organic Com						- 1

Matrix: Water

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-215294-E-2 MS	Matrix Spike	107	
240-215294-E-2 MSD	Matrix Spike Duplicate	95	
240-215296-2	MW-135S_111824	106	
240-215296-3	MW-134S_111824	109	
LCS 240-636646/6	Lab Control Sample	102	
MB 240-636646/8	Method Blank	97	

Surrogate Legend

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

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

Matrix: Water Analysis Batch: 636481

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/23/24 18:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/24 18:45	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 18:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 18:45	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 18:45	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/24 18:45	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137		11/23/24 18:45	1
4-Bromofluorobenzene (Surr)	93		56 - 136		11/23/24 18:45	1
Toluene-d8 (Surr)	99		78 - 122		11/23/24 18:45	1
Dibromofluoromethane (Surr)	97		73 - 120		11/23/24 18:45	1

Lab Sample ID: LCS 240-636481/5 Matrix: Water Analysis Batch: 636481

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	23.1		ug/L		116	63 - 134	
cis-1,2-Dichloroethene	20.0	24.8	*+	ug/L		124	77 - 123	
Tetrachloroethene	20.0	23.4		ug/L		117	76 - 123	
trans-1,2-Dichloroethene	20.0	23.1		ug/L		116	75 - 124	
Trichloroethene	20.0	24.6	*+	ug/L		123	70 _ 122	
Vinyl chloride	20.0	25.7		ug/L		128	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	104		56 ₋ 136
Toluene-d8 (Surr)	108		78 - 122
Dibromofluoromethane (Surr)	105		73 - 120

Lab Sample ID: 240-215294-B-2 MS Matrix: Water Analysis Batch: 636481

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte **Result Qualifier** %Rec Limits Unit D 1.0 U 20.0 1,1-Dichloroethene 17.6 ug/L 88 56 - 135 cis-1,2-Dichloroethene 1.0 U F2 *+ 20.0 94 66 - 128 18.8 ug/L Tetrachloroethene 1.0 U 20.0 18.3 ug/L 91 62 - 131 trans-1,2-Dichloroethene 1.0 UF2 20.0 17.5 ug/L 88 56 - 136 Trichloroethene 20.0 94 61 - 124 1.0 U F2 *+ 18.8 ug/L Vinyl chloride 1.0 U F2 20.0 19.5 ug/L 98 43 - 157 MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	88		56 - 136
Toluene-d8 (Surr)	93		78 - 122

Prep Type: Total/NA

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Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client Sample ID: Matrix Spike Prep Type: Total/NA Lab Sample ID: 240-215294-B-2 MS

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

Job ID: 240-215296-1

Client Sample ID: Matrix Spike

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	MS	MS												
Surrogate	%Recovery	Qua	lifier	Limits										
Dibromofluoromethane (Surr)	99			73 - 120										
_ab Sample ID: 240-215294-I	B-2 MSD								Client	t Sam	ple ID	: Matrix Sp	oike Du	plicate
Matrix: Water											· .		Type: To	
Analysis Batch: 636481														
	Sample	Sam	ple	Spike	MSD	MSD)					%Rec		RPD
Analyte	Result	Qual	lifier	Added	Result	Qual	lifier	Unit		D %	%Rec	Limits	RPD	Limit
I,1-Dichloroethene	1.0	U		20.0	21.6			ug/L			108	56 - 135	20	26
sis-1,2-Dichloroethene	1.0	U F2	*+	20.0	23.2	F2		ug/L			116	66 - 128	21	14
Tetrachloroethene	1.0	U		20.0	21.2			ug/L			106	62 - 131	15	20
rans-1,2-Dichloroethene	1.0	U F2		20.0	21.3	F2		ug/L			107	56 - 136	19	15
Trichloroethene	1.0	U F2	*+	20.0	22.8	F2		ug/L			114	61 - 124	19	15
Vinyl chloride	1.0	U F2		20.0	25.6	F2		ug/L			128	43 - 157	27	24
	MSD	MSD)											
Surrogate	%Recovery	Qua	lifier	Limits										
				62 - 137										
,2-Dichloroethane-d4 (Surr)	93													
	93 103			56 - 136										
4-Bromofluorobenzene (Surr)				56 - 136 78 - 122										
1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr)	103													
4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr)	103 99 97			78 - 122						CI	lient S	ample ID:	Method	Blank
4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: MB 240-6364	103 99 97			78 - 122						СІ	lient S	ample ID: Prep 1		
4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: MB 240-6364 Matrix: Water	103 99 97			78 - 122						CI	lient S	-	Method Type: To	
4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: MB 240-6364 Matrix: Water	103 99 97	мв	мв	78 - 122						CI	lient S	-		
A-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: MB 240-6364 Matrix: Water Analysis Batch: 636489	103 99 97 189/9		MB Qualifier	78 - 122		MDL	Unit		D		lient S Dared	-	Гуре: То	otal/NA
4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: MB 240-6364 Matrix: Water Analysis Batch: 636489 Analyte	103 99 97 189/9		Qualifier	78 - 122 73 - 120			Unit ug/L		<u>D</u>			Prep 1	Type: To	Dil Fac
A-Bromofluorobenzene (Surr) Foluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: MB 240-6364 Matrix: Water Analysis Batch: 636489 Analyte 1,1-Dichloroethene	103 99 97 189/9	esult	Qualifier U	78 - 122 73 - 120 			ug/L		_ <u>D</u> _			Prep 1 Analyz	Fype: To 21:32	Dil Fac
A-Bromofluorobenzene (Surr) Foluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: MB 240-6364 Matrix: Water Analysis Batch: 636489 Analyte I,1-Dichloroethene cis-1,2-Dichloroethene	103 99 97 189/9	esult 1.0	Qualifier U U	78 - 122 73 - 120 		0.49	ug/L ug/L		<u> </u>			Prep 1 Analyz 11/23/24	Fype: To 21:32	Dil Fac
A-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: MB 240-6364 Matrix: Water Analysis Batch: 636489 Analyte I,1-Dichloroethene Sis-1,2-Dichloroethene Fetrachloroethene	103 99 97 189/9	esult 1.0 1.0	Qualifier U U U	78 - 122 73 - 120 		0.49 0.46	ug/L ug/L ug/L		_ D _			Analyz 11/23/24 11/23/24	Eed 21:32 21:32 21:32	Dil Fac
Analyte I-Dichloroethene I-Dichloroethene I-Dichloroethene I-Dichloroethene I-Dichloroethene I-Dichloroethene I-Tachloroethene I-Tachloroethen	103 99 97 189/9	esult 1.0 1.0 1.0	Qualifier U U U U	78 - 122 73 - 120 		0.49 0.46 0.44	ug/L ug/L ug/L ug/L		<u>D</u>			Analyz 11/23/24 11/23/24 11/23/24	Eed 21:32 21:32 21:32 21:32 21:32	Dil Fac
A-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: MB 240-6364 Matrix: Water Analysis Batch: 636489 Analyte I,1-Dichloroethene Fetrachloroethene Fetrachloroethene Franchloroethene Frichloroethene	103 99 97 189/9	esult 1.0 1.0 1.0 1.0	Qualifier U U U U U	78 - 122 73 - 120 		0.49 0.46 0.44 0.51	ug/L ug/L ug/L ug/L ug/L		_ D			Analyz 11/23/24 11/23/24 11/23/24 11/23/24	Exed 21:32 21:32 21:32 21:32 21:32 21:32	
A-Bromofluorobenzene (Surr) Foluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: MB 240-6364 Matrix: Water Analysis Batch: 636489 Analyte I.1-Dichloroethene is-1,2-Dichloroethene Fetrachloroethene rans-1,2-Dichloroethene Frichloroethene	103 99 97 189/9	esult 1.0 1.0 1.0 1.0 1.0 1.0	Qualifier U U U U U U U	78 - 122 73 - 120 		0.49 0.46 0.44 0.51 0.44	ug/L ug/L ug/L ug/L ug/L		<u>D</u>			Analyz 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24	Exed 21:32 21:32 21:32 21:32 21:32 21:32	Dil Fac
A-Bromofluorobenzene (Surr) Foluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: MB 240-6364 Matrix: Water Analysis Batch: 636489 Analyte 1-Dichloroethene is-1,2-Dichloroethene Fetrachloroethene Frichloroethene frichloroethene Vinyl chloride	103 99 97 189/9 R	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB	Qualifier U U U U U U U	78 - 122 73 - 120 		0.49 0.46 0.44 0.51 0.44	ug/L ug/L ug/L ug/L ug/L		<u>D</u>	Prep		Analyz 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24	red 21:32 21:32 21:32 21:32 21:32 21:32 21:32 21:32	Dil Fac
A-Bromofluorobenzene (Surr) Foluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: MB 240-6364 Matrix: Water Analysis Batch: 636489 Analyte ,1-Dichloroethene is-1,2-Dichloroethene Fetrachloroethene Frans-1,2-Dichloroethene Frichloroethene /inyl chloride	103 99 97 189/9 R	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB	Qualifier U U U U U U U U MB	78 - 122 73 - 120 		0.49 0.46 0.44 0.51 0.44	ug/L ug/L ug/L ug/L ug/L		_ <u>D</u>	Prep	pared	Analyz 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24	Eed	Dil Fac
A-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: MB 240-6364 Matrix: Water Analysis Batch: 636489 Analyte I,1-Dichloroethene Fetrachloroethene Fetrachloroethene Firichloroethene /inyl chloride Surrogate I,2-Dichloroethane-d4 (Surr)	103 99 97 189/9 R	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB very	Qualifier U U U U U U U U MB	78 - 122 73 - 120 		0.49 0.46 0.44 0.51 0.44	ug/L ug/L ug/L ug/L ug/L		_ D	Prep	pared	Analyz 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24	red	Dil Fac
4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: MB 240-6364	103 99 97 189/9 R	esult 1.0 1.0 1.0 1.0 1.0 1.0 MB very 109	Qualifier U U U U U U U U MB	78 - 122 73 - 120 		0.49 0.46 0.44 0.51 0.44	ug/L ug/L ug/L ug/L ug/L		_ D	Prep	pared	Analyz 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24 11/23/24	Type: To 21:32 - 21:32 - 21:32 - 21:32 - 21:32 - 21:32 - 21:32 - 21:32 - 21:32 - 21:32 - 21:32 - 21:32 -	Dil Fac

Analysis Batch: 636489

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	20.5		ug/L		82	63 - 134	
cis-1,2-Dichloroethene	25.0	21.3		ug/L		85	77 - 123	
Tetrachloroethene	25.0	19.6		ug/L		78	76 - 123	
trans-1,2-Dichloroethene	25.0	20.6		ug/L		82	75 - 124	
Trichloroethene	25.0	20.2		ug/L		81	70 - 122	

Eurofins Cleveland

Job ID: 240-215296-1

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

Lab Sample ID: LCS 240-636 Matrix: Water Analysis Batch: 636489	6489/4						Clien	t Sample	e ID: Lab Control Sample Prep Type: Total/NA
-			Spike	LCS	LCS				%Rec
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
Vinyl chloride			25.0	25.9		ug/L		104	60 - 144
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	101		62 _ 137						
4-Bromofluorobenzene (Surr)	101		56 _ 136						
Toluene-d8 (Surr)	100		78 - 122						
Dibromofluoromethane (Surr)	93		73 - 120						

Lab Sample ID: 240-214873-A-9 MS Matrix: Water

Analysis Batch: 636489

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	49		500	453		ug/L		81	56 - 135	
cis-1,2-Dichloroethene	26		500	453		ug/L		85	66 - 128	
Tetrachloroethene	36		500	436		ug/L		80	62 - 131	
trans-1,2-Dichloroethene	17	J	500	431		ug/L		83	56 - 136	
Trichloroethene	120		500	530		ug/L		82	61 - 124	
Vinyl chloride	20	U	500	519		ug/L		104	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

Lab Sample ID: 240-214873-C-9 MSD Matrix: Water

Analysis Batch: 636489

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	49		500	446		ug/L		79	56 - 135	2	26
cis-1,2-Dichloroethene	26		500	443		ug/L		83	66 - 128	2	14
Tetrachloroethene	36		500	425		ug/L		78	62 - 131	3	20
trans-1,2-Dichloroethene	17	J	500	420		ug/L		81	56 - 136	3	15
Trichloroethene	120		500	516		ug/L		79	61 - 124	3	15
Vinyl chloride	20	U	500	511		ug/L		102	43 - 157	1	24
	MSD	MSD									

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		62 - 137
4-Bromofluorobenzene (Surr)	104		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	94		73 - 120

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

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

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

Lab Sample ID: MB 240-636	646/8										Client S	ample ID:	Method	l Blank
Matrix: Water												Prep 1	Type: To	otal/NA
Analysis Batch: 636646														
		MB ME	3											
Analyte	Res	sult Qu	alifier	RL		MDL	Unit		D	Pı	repared	Analyz	ed	Dil Fac
1,4-Dioxane		2.0 U		2.0		0.86	ug/L					11/25/24	13:26	
		мв ме	3											
Surrogate	%Recov		alifier	Limits						PI	repared	Analyz	zed	Dil Fa
1,2-Dichloroethane-d4 (Surr)		97		68 - 127								11/25/24		1
- 														
Lab Sample ID: LCS 240-63	6646/6								Clie	ent	Sample	ID: Lab Co		
Matrix: Water												Prep 1	Type: To	otal/NA
Analysis Batch: 636646				• "								~-		
				Spike		LCS				_	~ -	%Rec		
Analyte				Added	Result	Qual	ifier	Unit	[D	%Rec	Limits		
1,4-Dioxane				10.0	8.93			ug/L			89	75 _ 121		
	LCS	LCS												
Surrogate	%Recovery	Qualifie	r	Limits										
1,2-Dichloroethane-d4 (Surr)	102			68 - 127										
- 	5 a Ma										Olivert	Commits ID		0
Lab Sample ID: 240-215294 Matrix: Water	-E-2 MIS										Client	Sample ID		
												Prep	Type: To	Jtal/NA
Analysis Batch: 636646	Sample	Comple		Spike	ме	MS						%Rec		
Analyta	Result			Added	Result		ifior	Unit		D	%Rec	Limits		
Analyte 1,4-Dioxane		U		10.0	7.45	Quai	mer	ug/L		_	74	20 - 180		
	2.0	0		10.0	7.40			ug/L			14	20 - 100		
	MS	MS												
Surrogate	%Recovery	Qualifie	r	Limits										
1,2-Dichloroethane-d4 (Surr)	107			68 - 127										
- Lab Sample ID: 240-215294	-E-2 MSD								Client	Sa	mole ID	: Matrix Sp	oike Du	nlicate
Matrix: Water													Type: To	
Analysis Batch: 636646													,	
	Sample	Sample		Spike	MSD	MSD						%Rec		RPD
Analyte	Result		r	Added	Result	Qual	ifier	Unit		D	%Rec	Limits	RPD	Limi
1,4-Dioxane		U		10.0	8.72			ug/L		_	87	20 - 180	16	20
	MSD	MED												
Surrogata			-	Limito										
Surrogate	%Recovery	Qualifie	r	Limits										

 surrogate
 %Recovery
 Qualifier
 Limits

 1,2-Dichloroethane-d4 (Surr)
 95
 68 - 127

Analysis Batch: 636481

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-215296-1	TRIP BLANK_118	Total/NA	Water	8260D	
MB 240-636481/9	Method Blank	Total/NA	Water	8260D	
LCS 240-636481/5	Lab Control Sample	Total/NA	Water	8260D	
240-215294-B-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-215294-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
Analysis Batch: 63648	9				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-215296-2	MW-135S_111824	Total/NA	Water	8260D	
240-215296-3	MW-134S_111824	Total/NA	Water	8260D	
MB 240-636489/9	Method Blank	Total/NA	Water	8260D	
LCS 240-636489/4	Lab Control Sample	Total/NA	Water	8260D	
240-214873-A-9 MS	Matrix Spike	Total/NA	Water	8260D	
240-214873-C-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
Analysis Batch: 63664	6				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-215296-2	MW-135S_111824	Total/NA	Water	8260D SIM	
240-215296-3	MW-134S_111824	Total/NA	Water	8260D SIM	
MB 240-636646/8	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-636646/6	Lab Control Sample	Total/NA	Water	8260D SIM	
240-215294-E-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-215294-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

12

Client Sample ID: TRIP BLANK_118 Lab Sample ID: 240-215296-1 Date Collected: 11/18/24 00:00 Matrix: Water Date Received: 11/20/24 08:00 Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 8260D cs EET CLE 11/23/24 21:07 Total/NA Analysis 636481 1 Client Sample ID: MW-135S_111824 Lab Sample ID: 240-215296-2 Date Collected: 11/18/24 11:15 Matrix: Water Date Received: 11/20/24 08:00 Batch Batch Dilution Batch Prepared Prep Type Method Run Factor Number Analyst or Analyzed Туре Lab Total/NA 8260D 636489 CS EET CLE 11/24/24 04:54 Analysis 1 Total/NA Analysis 8260D SIM 636646 R5XG 11/25/24 18:30 1 EET CLE Client Sample ID: MW-134S_111824 Lab Sample ID: 240-215296-3 Date Collected: 11/18/24 12:10 Matrix: Water Date Received: 11/20/24 08:00 Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst or Analyzed Lab 11/24/24 05:17 Total/NA 8260D 636489 CS EET CLE Analysis 1 8260D SIM 636646 R5XG 11/25/24 18:54

1

EET CLE

Laboratory References:

Analysis

Total/NA

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

Eurofins Cleveland

Accreditation/Certification Summary

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

Laboratory: Eurofins Cleveland

aboratory: Eurofins Cle				
accreditations/certifications held by	y this laboratory are listed. Not all accreditations/ce	rtifications are applicable to this report	<u></u>	
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	
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	

Eurofins Cleveland





Chain of Custody Record

TestAmerica

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

Client Contact	Regulat	tory program	:	ſ	DW		1	NPDE	s	L _{mot}	RCR	łA	Г	Other				1							
ompany Name: Arcadis	Client Project I	Manager: Kris	Hinsk	ey			Site	Contac	t: Chi	ristina	We:	aver			La	b Con	lact: N	like De	elMon	ico			-		FestAmerica Laboratories. COC No:
ddress: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240					Telev	phone:	248-9	94-22	40				+	lenhor	e: 330	-497-9	396				-		
ity/State/Zip: Novi, MI, 48377													_	_										_	1 of 1 COCs
hone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.	com			-	Analys	is I ur	harou	11	ime		-	T		Т		Analy	ses			-		For lab use only
roject Name: Ford LTP	Sampler Name	Samm.	1	M.		2	TAT	if differe		below 3 we	ake [ľ	Walk-in client
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O # US3410018772	Shipping/Track	cing No:					1		Г	1 day	/		Filtered Sample (Y / N)	Composite=C / Grab=G		Trans_1 2-UUE 020UU			Vinyi Chloride 8260D	1,4-Dioxane 8260D				1	ob/SDG No:
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				1		2	3		=		÷	2	cred S	iposit			PCF 8260D	TCE 8260D	Chi	Dioxe					Sample Specific Notes /
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Solid	Othe	HISSON	HN03	NaOH	ZnAcl NaOH	Unpres	Other:	Filte	Con		Tran	PCF	TCE	Viny	1.4-1					Special Instructions:
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	240-	215296 CO	c –													-									
Possible Hazard Identification		L	1				Si					nay be a	ssess	ed if sa	nples	are re	ained	longer	than	mont	h)				
Point Non-Hazard Ammable in Irri pecial Instructions/QC Requirements & Comments:	122 (L.N	0 1	Jnk	. 1		1.	6 .	R	eturn te	o Clier	it	⊳ D	ispos	al By L:	ıb		Arch	ive For		N	ionths	-			
ubmit all results through Cadena at jtomalia@cadena	co com Cadena #	203728	whig	LA	15	4 9	110																		
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VOA Sample Preservation - Date/Time VOAs Frozen:
Sample(s) were further preserved in the laboratory Time preserved: Preservative(s) added/Lot number(s):
20. SAMPLE PRESERVATION
19. SAMPLE CONDITION Sample(s)
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:
Concerning
Contacted PM Date by via Verbal Voice Mail Other
 13. Were all preserved sample(s) at the correct pH 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?
10. Were correct bottle(s) used for the test(s) indicated? Yes No 11. Sufficient quantity received to perform indicated analyses? Yes No 12. Are these work share samples and all listed on the COC? Yes No 15 yes. Ouestions 13-17 have been checked at the originating laboratory. Yes No
Did all bottles arrive in good condition (Unbroken)? Could all bottle labels (D/Date/Time) be reconciled with the COC? For each sample, does the COC specify preservatives (V/N), # of containers (V/N), and sar
Yes No opriate place? Yes No identified on the COC? Yes No
 Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Xes 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?
1. Cooler temperature upon receipt Interpretent to the set of th
ox Client Cooler Box Foam Plastic Bag N
p UPS FAS Waypoint Client Drop Off 1 's: Drop-off Date/Time
Choler Received on 11-20-24 Cooler surpacked by:
Eurofins – Cleveland Sample Receipt Form/Narrative Barberton Facility

WI-NC-099-110524 Cooler Receipt Form.doc

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Login # :_____

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Wet Ice Blue Ice Dry Ice			IR GUN #:			;
Wet Ice Blue Ice Dry Ice			IR GUN #:	Box Other	Client	E
			IR GUN #:	Box Other	Client	EC
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Box Other	Client	Ē
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Wet Ice Blue Ice Dry Ice Water None	1.9	in in in in in in in in in in in in in i	IR GUN #: +3	Box Other	Client	E.
Wet Ice Blue Ice Dry Ice Water None	1.5	u	IR GUN #:	Box Other	Client	\bigcirc
Coolant (Circle)	Corrected Temp °C	Observed Temp °C	IR Gun # (Cir <u>cle</u>)	scription le)	Cooler Description (Circle)	
	Eurofins - Cleveland Sample Receipt Multiple Cooler Form	d Sample Receipt N	Eurofins - Clevelar			

W1-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

DATA VERIFICATION REPORT



November 27, 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: 215296-1 Sample date: 2024-11-18 Report received by CADENA: 2024-11-27 Initial Data Verification completed by CADENA: 2024-11-27 Number of Samples:3 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 LCS recoveries were outliers biased high for the following analytes: CIS-1,2-DICHLOROETHENE and TRICHLOROETHENE. Associated client sample results were non-detect so qualification was not required based on these high bias QC outliers.

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 <u>http://clms.cadenaco.com/index.cfm</u>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
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: 215296-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2402152 11/18/2	2961	3		MW-13 240215 11/18/2		24		MW-134 240215 11/18/2	2963	24	
	Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier		Report Limit		Valid Qualifier
GC/MS VOC	·									•				•
<u>OSW-8260</u>	<u>)D</u>													
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		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		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		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		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		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		ND	1.0	ug/l	
<u>OSW-8260</u>	DSIM													
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-215296-1 CADENA Verification Report: 2024-11-27

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 56886R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-215296-1 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	Parent Sample	Ana	ysis
Sample ID		Matrix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_118	240-215296-1	Water	11/18/2024		Х	
MW-135S_111824	240-215296-2	Water	11/18/2024		Х	Х
MW-134S_111824	240-215296-3	Water	11/18/2024		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

	Items Reviewed	Rep	orted	Perfori Accep		Not Required
		No	Yes	No	Yes	Required
1.	Sample receipt condition		Х		Х	
2.	Requested analyses and sample results		Х		Х	
3.	Master tracking list		Х		Х	
4.	Methods of analysis		Х		Х	
5.	Reporting limits		Х		Х	
6.	Sample collection date		Х		Х	
7.	Laboratory sample received date		Х		Х	
8.	Sample preservation verification (as applicable)		Х		Х	
9.	Sample preparation/extraction/analysis dates		Х		Х	
10.	Fully executed Chain-of-Custody (COC) form		Х		Х	
11.	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.

DATA REVIEW

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 REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	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		1			1
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	Х				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		Х		Х	
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:	Parts	
DATE:	December 16, 2024	

PEER REVIEW: Andrew Korycinski

DATE: December 20, 2024

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS





Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

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

Client Contact	Regula	tory program:	:		⊂ DV	N		PDES		٣	RCR	A	- •	Other											
Company Name: Arcadis	Client Project	ient Project Manager: Kris Hinskey					Site C	ontact	: Chi	ristina	Wea	iver	+	_	-	Lab Contact: Mike DelMonico					TestAmerica Laboratories, In COC No:				
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240					Telep	Telephone: 248-994-2240 7					Telephone: 330-497-9396												
City/State/Zip: Novi, M1, 48377	Email: kristoff	er.hinskey@ar	cadis.	com			A	nalysis	Tur	arou	nd Ti	me	-	_		Analyses					-	1 of 1 COCs For lab use only			
Phone: 248-994-2240	7						TAT	different	dia and	halan	_									T T T					Walk-in client
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Project Number: 30206169.0401.03	Method of Ship	ment/Carrier:		-	11	/	1 "	uay	Г	1 wei 2 day	ek		Î	ę			0				SIM				Lao samping
PO # US3410018772	Shipping/Trac	pping/Tracking No:								1 day			ole (Y /	/ Grab	8	3260D	E 8260			9260	3260D			1	Job/SDG No:
					Matrix			Contain				10	Filtered Sample (Y / N)	Composite=C / Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				Sample Specific Notes /
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment Solid	Other:	H2S04	HCI I	NaOH	ZaAd NaOH	Unpres	Other:	Filter	Comp	1, 1-D	cis-1,2	Trans	PCE 8	TCE 8	Vinyl (1,4-Di				Special Instructions:
TRIP BLANK_				1				1					N	G	X	х	х	х	х	X					1 Trip Blank
MW-1355_111824	11/18/24	11:15		6				6					N	63	X	X	Х	X	X	X	X		1		3 VOAs for 8260D 3 VOAs for 8260D SIM
MU-1345_111824	11)18/24	12:10		le				G					Ň	6	X	X	X	×	X	X	X				×
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Possible Hazard Identification	nt Poise	Dan B (Jnk	nown		1	Sar	nple D: Ret	ispos urn te	al (A o Clien	fee m	nay be ass Dis	sesse	ed if sa al By I	ample .ab			ned loi rchive		han 1	month) Mo	nths	-		L
Special Instructions/QC Requirements & Comments:	23 5tan	- Cul	2	- 11		र्धत	1.00	}															1		
Submit all results through Cadena at jtomalia@cadenacc Level IV Reporting requested.	.com. Cadena #	E203728G	wha	U X 1	24																				
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Qualifiers

GC/MS VOA	
Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Glussaly	
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 ID: TRIP BLANK_118

Date Collected: 11/18/24 00:00

Date Received: 11/20/24 08:00

Method: SW846 8260D - Volat	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			11/23/24 21:07	1
cis-1,2-Dichloroethene	1.0	U**	1.0	0.46	ug/L			11/23/24 21:07	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 21:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 21:07	1
Trichloroethene	1.0	U 🐂	1.0	0.44	ug/L			11/23/24 21:07	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/24 21:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137			-		11/23/24 21:07	1
4-Bromofluorobenzene (Surr)	93		56 - 136					11/23/24 21:07	1
Toluene-d8 (Surr)	99		78 - 122					11/23/24 21:07	1

73 - 120

Client Sample ID: MW-135S_111824

Date Collected: 11/18/24 11:15

Dibromofluoromethane (Surr)

Date	Received:	11/20/24	08:00

Method: SW846 8260D SIM - Vo	latile 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			11/25/24 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		11/25/24 18:30	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

97

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/24/24 04:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/24/24 04:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/24/24 04:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/24/24 04:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/24/24 04:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/24/24 04:54	1

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112	62 - 137		11/24/24 04:54	1
4-Bromofluorobenzene (Surr)	99	56 - 136		11/24/24 04:54	1
Toluene-d8 (Surr)	100	78 - 122		11/24/24 04:54	1
Dibromofluoromethane (Surr)	98	73 - 120		11/24/24 04:54	1

Client Sample ID: MW-134S_111824

Date Collected: 11/18/24 12:10 Date Received: 11/20/24 08:00

Method: SW846 8260D SIM - V	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			11/25/24 18:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)	109		68 - 127			-		11/25/24 18:54	1

Lab Sample ID: 240-215296-3

Lab Sample ID: 240-215296-1 Matrix: Water

Matrix: Water

Lab Sample ID: 240-215296-2 Matrix: Water

1

11/23/24 21:07

Client Sample ID: MW-134S_111824

Date Collected: 11/18/24 12:10

Date Received: 11/20/24 08:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/24/24 05:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/24/24 05:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/24/24 05:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/24/24 05:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/24/24 05:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/24/24 05:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137			-		11/24/24 05:17	1
4-Bromofluorobenzene (Surr)	98		56 - 136					11/24/24 05:17	1
Toluene-d8 (Surr)	100		78 - 122					11/24/24 05:17	1
Dibromofluoromethane (Surr)	98		73 - 120					11/24/24 05:17	1

Lab Sample ID: 240-215296-3 Matrix: Water