DATA VERIFICATION REPORT



November 29, 2022

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631 Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater Project number: 30146655.402.04 off-site Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Barberton Laboratory submittal: 176527-1 Sample date: 2022-11-14 Report received by CADENA: 2022-11-29 Initial Data Verification completed by CADENA: 2022-11-29 Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at <u>http://clms.cadenaco.com/index.cfm</u>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Barberton Laboratory Submittal: 176527-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLANK_219 2401765271 11/14/2022			MW-123S_111422 2401765272 11/14/2022				
				Report		Valid	_	Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-826</u>	<u>DC</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		3.2	1.0	ug/l	
<u>OSW-826</u>	<u>DDSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 11/29/2022 7:35:04 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-176527-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Canton

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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

Your

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Generated 11/29/2022 7:35:04 AM

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Qualifiers

TNTC

Too Numerous To Count

Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	
Glossary		5
Abbreviation	These commonly used abbreviations may or may not be present in this report.	6
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	7
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	9
DL	Detection Limit (DoD/DOE)	4.0
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	10
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	11
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	12
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	13
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	11
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)	

Job ID: 240-176527-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-176527-1

Receipt

The samples were received on 11/16/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.9°C

GC/MS VOA

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

Method Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

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

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

Sample Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-176527-1	TRIP BLANK_219	Water	11/14/22 00:00	11/16/22 08:00
240-176527-2	MW-123S_111422	Water	11/14/22 14:13	11/16/22 08:00

Detection Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_219

Lab Sample ID: 240-176527-1

Job ID: 240-176527-1

No Detections.

Client Sample ID: MW-123S_111422Lab Sample ID: 240-176527-2AnalyteResultQualifierRLMDLUnitDil FacDMethodPrep TypeVinyl chloride3.21.00.45ug/L-10.1

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Client Sample ID: TRIP BLANK_219 Date Collected: 11/14/22 00:00 Date Received: 11/16/22 08:00

Lab Sample ID: 240-176527-1 Matrix: Water

Matrix: Water

5 6

8 9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/23/22 13:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/22 13:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/22 13:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/22 13:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/22 13:55	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/22 13:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137					11/23/22 13:55	1
4-Bromofluorobenzene (Surr)	91		56 - 136					11/23/22 13:55	1
Toluene-d8 (Surr)	98		78 - 122					11/23/22 13:55	1
Dibromofluoromethane (Surr)	86		73 - 120					11/23/22 13:55	1

Client Sample ID: MW-123S_111422 Date Collected: 11/14/22 14:13 Date Received: 11/16/22 08:00

Job ID: 240-176527-1

Lab Sample ID: 240-176527-2 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/23/22 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		66 - 120					11/23/22 01:30	1
Method: SW846 8260D - Vo	latile Organic	Compoun	ds by GC/MS	1					
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/23/22 18:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/22 18:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/22 18:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/22 18:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/22 18:56	1
Vinyl chloride	3.2		1.0	0.45	ug/L			11/23/22 18:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137					11/23/22 18:56	1
4-Bromofluorobenzene (Surr)	89		56 - 136					11/23/22 18:56	1
Toluene-d8 (Surr)	98		78 - 122					11/23/22 18:56	1
Dibromofluoromethane (Surr)	86		73 - 120					11/23/22 18:56	1

Surrogate Summary

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

			Pe	ercent Surro	gate Recovery (Acceptance Limits)	
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-176484-J-4 MS	Matrix Spike	97	92	98	90	
240-176484-P-4 MSD	Matrix Spike Duplicate	95	90	98	89	
240-176527-1	TRIP BLANK_219	98	91	98	86	
240-176527-2	MW-123S_111422	99	89	98	86	
LCS 240-553297/4	Lab Control Sample	94	94	97	91	
MB 240-553297/7	Method Blank	97	90	98	86	
Surrogate Legend						
DCA = 1,2-Dichloroeth						
BFB = 4-Bromofluorob	enzene (Surr)					
TOL = Toluene-d8 (Su	rr)					
DBFM = Dibromofluor	omethane (Surr)					
lethod: 8260D S	IM - Volatile Organic	Compoun	ds (GC/	MS)		
latrix: Water	-	-			Ргер Ту	/pe: Total/N
			Pa	ercent Surr	gate Recovery (Acceptance Limits)	
		DCA		Joshi Guin		

		DCA
Lab Sample ID	Client Sample ID	(66-120)
40-176527-2	MW-123S_111422	79
240-176530-B-2 MS	Matrix Spike	79
240-176530-B-2 MSD	Matrix Spike Duplicate	81
_CS 240-553220/3	Lab Control Sample	79
MB 240-553220/5	Method Blank	77

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

Eurofins Canton

Job ID: 240-176527-1

Prep Type: Total/NA

Analysis Batch: 553297

Prep Type: Total/NA

Client Sample ID: Method Blank

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

Lab Sample ID: MB 240-553297/7 Matrix: Water

	MB	MB							
Analyte R	lesult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/23/22 11:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/22 11:50	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/22 11:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/22 11:50	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/22 11:50	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/22 11:50	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137		11/23/22 11:50	1
4-Bromofluorobenzene (Surr)	90		56 - 136		11/23/22 11:50	1
Toluene-d8 (Surr)	98		78 - 122		11/23/22 11:50	1
Dibromofluoromethane (Surr)	86		73 - 120		11/23/22 11:50	1

Lab Sample ID: LCS 240-553297/4 Matrix: Water Analysis Batch: 553297

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	24.0		ug/L		96	63 - 134	
cis-1,2-Dichloroethene	25.0	22.4		ug/L		90	77 - 123	
Tetrachloroethene	25.0	23.6		ug/L		94	76 - 123	
trans-1,2-Dichloroethene	25.0	22.4		ug/L		90	75 - 124	
Trichloroethene	25.0	22.3		ug/L		89	70 - 122	
Vinyl chloride	12.5	13.2		ug/L		105	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	94		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	91		73 - 120

92

98

Lab Sample ID: 240-176484-J-4 MS Matrix: Water Analysis Batch: 553297

4-Bromofluorobenzene (Surr)

Toluene-d8 (Surr)

-	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	25.0	20.4		ug/L		81	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	21.3		ug/L		85	66 - 128
Tetrachloroethene	1.0	U	25.0	22.5		ug/L		90	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	21.6		ug/L		86	56 - 136
Trichloroethene	1.0	U	25.0	21.2		ug/L		85	61 - 124
Vinyl chloride	2.0		12.5	13.0		ug/L		89	43 - 157
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	97		62 - 137						

Client Sample ID: Lab Control Sample Prep Type: Total/NA

%Rec

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

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56 - 136

78 - 122

QC Sample Results

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

Lab Sample ID: 240-176484-J-4 MS **Client Sample ID: Matrix Spike** Matrix: Water Prep Type: Total/NA Analysis Batch: 553297 MS MS %Recovery Qualifier Limits Surrogate Dibromofluoromethane (Surr) 90 73 - 120 **Client Sample ID: Matrix Spike Duplicate** Lab Sample ID: 240-176484-P-4 MSD Matrix: Water Prep Type: Total/NA Analysis Batch: 553297 Sample Sample Spike MSD MSD %Rec RPD **Result Qualifier** Added Limits RPD Limit Analyte **Result Qualifier** Unit D %Rec 1.0 U 1,1-Dichloroethene 25.0 20.5 ug/L 82 56 - 135 1 26 cis-1,2-Dichloroethene 1.0 U 25.0 20.9 ug/L 84 66 - 128 2 14 Tetrachloroethene 1.0 U 25.0 20.8 ug/L 83 62 - 131 20 7 trans-1.2-Dichloroethene 1.0 U 25.0 21.1 85 2 15 ug/L 56 - 136 Trichloroethene 1.0 U 25.0 20.0 ug/L 80 61 - 124 6 15 Vinyl chloride 2.0 12.5 12.7 ug/L 86 43 - 157 3 24 MSD MSD %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 95 62 - 137 4-Bromofluorobenzene (Surr) 90 56 - 136 Toluene-d8 (Surr) 98 78 - 122 Dibromofluoromethane (Surr) 89 73 - 120 Method: 8260D SIM - Volatile Organic Compounds (GC/MS) Lab Sample ID: MB 240-553220/5 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA Analysis Batch: 553220 MB MB Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 11/22/22 18:19 1 MB MB Limits Dil Fac Surrogate %Recovery Qualifier Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 77 66 - 120 11/22/22 18:19 1 Lab Sample ID: LCS 240-553220/3 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 553220 Spike LCS LCS %Rec Added Result Qualifier Analyte Unit D %Rec Limits 1,4-Dioxane 10.0 9.37 ug/L 94 80 - 122 LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 79 **Client Sample ID: Matrix Spike** Lab Sample ID: 240-176530-B-2 MS Prep Type: Total/NA Matrix: Water Analysis Batch: 553220 Sample Sample Spike MS MS %Rec **Result Qualifier** Added **Result Qualifier** Limits Analyte Unit D %Rec 1,4-Dioxane 2.0 U 10.0 10.0 ug/L 100 51 - 153

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

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	79		66 - 120									
_ Lab Sample ID: 240-1765	30-B-2 MSD					Client	Samn	le ID: N	latrix Spi	ke Dun	licate	
Matrix: Water						•			Prep Ty			
Analysis Batch: 553220												
-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	-
1,4-Dioxane	2.0	U	10.0	9.85		ug/L		98	51 - 153	2	16	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	81		66 - 120									

QC Association Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 553220

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-176527-2	MW-123S_111422	Total/NA	Water	8260D SIM	
MB 240-553220/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-553220/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-176530-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-176530-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
240-176527-1	TRIP BLANK_219	Total/NA	Water	8260D		
240-176527-2	MW-123S_111422	Total/NA	Water	8260D		
MB 240-553297/7	Method Blank	Total/NA	Water	8260D		
LCS 240-553297/4	Lab Control Sample	Total/NA	Water	8260D		
240-176484-J-4 MS	Matrix Spike	Total/NA	Water	8260D		
240-176484-P-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D		4

Job ID: 240-176527-1

Lab Sample ID: 240-176527-1

Client Sample ID: TRIP BLANK_219 Date Collected: 11/14/22 00:00 Date Received: 11/16/22 08:00

Analysis

	Batch	Batch		Dilution	Batch			Prepared	
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D		1	553297	SAM	EET CAN	11/23/22 13:55	
lient Sam	pie ID: MW	-123S 1114	22				Lab	Sample ID: 2	40-176527
ate Collecte	pie ID: MW d: 11/14/22 1 d: 11/16/22 0	4:13	22				Lab	Sample ID: 2	
ate Collecte	d: 11/14/22 1	4:13		Dilution	Batch			Prepared	
ate Collecte	d: 11/14/22 1 d: 11/16/22 0	4:13 8:00	22 Run	Dilution Factor	Batch Number	Analyst	Lab	·	240-176527- Matrix: Wate

1

553220 CS

EET CAN

11/23/22 01:30

Laboratory References:

Total/NA

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

8260D SIM

5 6 7 8 9

Matrix: Water

12 13

Eurofins Canton

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date	
California	State	2927	02-27-23	
Connecticut	State	PH-0590	12-31-23	
Florida	NELAP	E87225	06-30-23	
Georgia	State	4062	02-27-23	
Illinois	NELAP	200004	07-31-23	
lowa	State	421	06-01-23	
Kentucky (UST)	State	112225	02-27-23	
Kentucky (WW)	State	KY98016	12-31-22	
Minnesota	NELAP	039-999-348	12-31-22	
Minnesota (Petrofund)	State	3506	08-01-23	
New Jersey	NELAP	OH001	06-30-23	
New York	NELAP	10975	04-01-23	
Ohio	State	8303	02-27-23	
Ohio VAP	State	CL0024	02-27-23	
Oregon	NELAP	4062	02-27-23	
Pennsylvania	NELAP	68-00340	08-31-23	
Texas	NELAP	T104704517-22-17	08-31-23	
Virginia	NELAP	460175	09-14-23	
Washington	State	C971	01-12-23	
West Virginia DEP	State	210	12-31-22	

Eurofins Canton

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Sampler Name: Sampler Name: Method of Shipme Shipping/Tracking Shipping/Tracking Shipping/Tracking MI/U/MI	V X Trans-1, 2-DCE 82608 N N:1-DCE 82608 N X 1, 1-DCE 82608 N X X N X 1, 1-DCE 82608 N X X N North N	X X X X X X X X X X X X X X X
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entification C Requirements & Comments: C Requirements & Comments: L D C C C C C C C C C C C C C C C C C C	Unknown Sample Disposal (Å fee may be assessed if samples are retained Return to Client & Disposal By Lab Arch	Archive For For Months
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the de	Dictimer 1/0 0900 meeron of abrain by bin a lo	Company Dave Time 2900

11/29/2022

in 1
Eurofins - Canton Sample Receipt Form/Narrative Login # : 140247 Barberton Facility
Client ARCadi S Site Name Cooler unpacked by:
Cooler Received on 11-16 22 Opened on 11-16 22 RAChelt, HAIdet 3
FedEx: 1 st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other
Receipt After-hours: Drop-off Date/Time Storage Location 4
Eurofins Cooler # 7 A Foam Box Client Cooler Box Other 5 Packing material used: Bubble Wrap Foam Plastic Bag None Other 5
Packing material used: Bubble Wrap Foam Plastic Bag None Other 5 COOLANT: Wet-Ice Blue Ice Dry Ice Water None
1. Cooler temperature upon receipt See Multiple Cooler Form 6
IR GUN# IR-13 (CF +0.7 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C IR GUN #IR-15 (CF 0.0 °C) Observed Cooler Temp. 3.9 °C Corrected Cooler Temp. 3.9 °C 7
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity / Yes No -Were the seals on the outside of the cooler(s) signed & dated?
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?
-Were tamper/custody seals intact and uncompromised?
3. Shippers' packing slip attached to the cooler(s)? 4. Did guated a paper accompany the sample (c)?
4. Did custody papers accompany me sample(s):
 5. Were the custody papers relinquished & signed in the appropriate place? 6. Was/were the person(s) who collected the samples clearly identified on the COC?
7. Did all bottles arrive in good condition (Unbroken)?
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?
9. For each sample, does the COC specify preservatives (VN), # of containers (VN), and sample type of grab/comp(VN)?
10. Were correct bottle(s) used for the test(s) indicated? 11 Sufficient question and the perform indicated encloses?
11. Sufficient quantity received to perform indicated analyses? Yes No 12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# HC286797
14. Were VOAs on the COC?
 15. Were air bubbles >6 mm in any VOA vials? Larger than this. 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 01042016 (Yes) No
17. Was a LL Hg or Me Hg trip blank present?Yes No
Contacted PM Date by via Verbal Voice Mail Other
Contacted PM Date by via verbal voice Mail Other
Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:
19. SAMPLE CONDITION
Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)
20. SAMPLE PRESERVATION
Sample(s) were further preserved in the laboratory.
Sample(s) were further preserved in the laboratory. Time preserved: Preservative(s) added/Lot number(s):
VOA Sample Preservation - Date/Time VOAs Frozen:

)



Ford Motor Company – Livonia Transmission Project

DATA REVIEW

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-176527-1 CADENA Verification Report: 2022-11-29

Analyses Performed By: TestAmerica North Canton, Ohio

Report # 47844R Review Level: Tier III Project: 30146655.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-176527-1 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 Collection		Ana	lysis
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM
TRIP BLANK_219	240-176527-1	Water	11/14/22		Х	
MW-123S_111422	240-176527-2	Water	11/14/22		Х	Х

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Repo	Reported		mance ptable	Not
	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	

DATA REVIEW

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 HCI

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 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.

All identified compounds met the specified criteria.

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		orted	Perfo Acce	Not Required	
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		X	
Tier III Validation					
System performance and column resolution		Х		X	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
lon 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		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:	Hrishikesh Upadhyaya	
	Ν	

SIGNATURE:

Curindialuel

DATE: December 07, 2022

PEER REVIEW: Andrew Korycinski

DATE: December 07, 2022

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS





Chain of Custody Record

3.9/3.9

TestAmerica

THE LEADER IN ENVIRIDMENTAL TESTING

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

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				Aqueous	Sediment	Other:	H2SO4	HN03	HCI	ZaAc	Unpres	Other:	Filtered	Composit	1.1-DCE 8260B	cis-1,2-DCE	Irans-1,2-UCE		1 CE 8260B	Vinyl Chloride 8260B	1,4-Dioxane	Sample Specific Notes / Special Instructions:
Sample Identification	Sample Date	Sample Time	Air	ě	se se	ŏ	Ê	Ê	HCI HCI	, Z	15	ð	E	Ŭ,	÷	i Ci	<u> </u>	τ l		5	¥.	
TRIP BLANK_219 MW -1235_11422	11/4/22			1					1				N	G 🛛	X .	x :	x ;	< :	x	X		1 Trip Blank
MW 1226 114122	1/14/2	14:13		1				1					N	2	XK	Y	2		1	\langle	V	3 VOAs for 8260B
125 HAdd	MIGIA	110	-	6			+	4	2	-	\vdash		11	4/	1	-	4	1		\geq	X	3 VOAs for 8260B SIM
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Possible Hazard Identification V Non-Hazard Flammable Skin Irr	ritant Poise	- 0		nown			Sa	mpl	e Dispo Return	osal (A fee i	may be	assesse Disposa	d if sa	mple	s are r		d long		n 1 n	wnth) Months	

11/29/2022 7:34 AM

Client Sample ID: TRIP BLANK_219

Date Collected: 11/14/22 00:00

Date Received: 11/16/22 08:00

Mathady SW946 9260D Valatile Organia Compounds h	. COMP
Method: SW846 8260D - Volatile Organic Compounds b	y GC/WS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/23/22 13:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/22 13:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/22 13:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/22 13:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/22 13:55	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/22 13:55	1
	0/ 8	o					- /		

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137		11/23/22 13:55	1
4-Bromofluorobenzene (Surr)	91		56 - 136		11/23/22 13:55	1
Toluene-d8 (Surr)	98		78 - 122		11/23/22 13:55	1
Dibromofluoromethane (Surr)	86		73 - 120		11/23/22 13:55	1

Client Sample ID: MW-123S_111422 Date Collected: 11/14/22 14:13 Date Received: 11/16/22 08:00

Tetrachloroethene

Trichloroethene

Vinyl chloride

Toluene-d8 (Surr)

Surrogate

trans-1.2-Dichloroethene

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Lab Sample ID: 240-176527-2

11/23/22 18:56

11/23/22 18:56

11/23/22 18:56

11/23/22 18:56

Analyzed

11/23/22 18:56

11/23/22 18:56

11/23/22 18:56

11/23/22 18:56

Prepared

Matrix: Water

1

1

1

1

1

1

1

1

Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/23/22 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		66 - 120					11/23/22 01:30	1
-		_							
Method: SW846 8260D - Vo	olatile Organic	Compound	ts by GC/MS						
Method: SW846 8260D - Vo Analyte		Compound Qualifier	ds by GC/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier		MDL	Unit ug/L	<u>D</u>	Prepared	Analyzed	Dil Fac

1.0

1.0

1.0

1.0

Limits

62 - 137

56 - 136

78 - 122

73 - 120

0.44 ug/L

0.51 ug/L

0.44 ug/L

0.45 ug/L

1.0 U

1.0 U

1.0 U

3.2

%Recovery Qualifier

99

89

98

86

7:34 AM

Lab Sample ID: 240-176527-1 Matrix: Water