

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/19/2025 7:39:25 AM Revision 1

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-219858-1

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

Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	
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.	
¢.	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	0
CNF	Contains No Free Liquid	8
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	9
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)	13 14
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)	

Reporting Limit or Requested Limit (Radiocnemistry) Relative Percent Difference, a measure of the relative difference between two points RPD

TEF Toxicity Equivalent Factor (Dioxin)

- TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

Job ID: 240-219858-1

Eurofins Cleveland

Job Narrative 240-219858-1

REVISION

The report being provided is a revision of the original report sent on 3/17/2025. The report (revision 1) is being revised due to method blank and LCS were missing from the report.

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 3/5/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°C.

GC/MS VOA

Method 8260D: Due to instrument error that caused the instrument to shut down their will be no MS/MSD reported with this tune

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

Method Summary

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

Sample Summary

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219858-1	TRIP BLANK_159	Water	02/28/25 00:00	03/05/25 08:00
240-219858-2	MW-192S_022825	Water	02/28/25 13:45	03/05/25 08:00

Detection Summary

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

Client Sample ID: TRIP BLANK_159

No Detections.

Client Sample ID: MW-192S_022825

No Detections.

Job ID: 240-219858-1

Lab Sample ID: 240-219858-1

Lab Sample ID: 240-219858-2

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK_159 Date Collected: 02/28/25 00:00 Date Received: 03/05/25 08:00

Lab Sample ID: 240-219858-1

Matrix: Water

5

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/13/25 14:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/13/25 14:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/13/25 14:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/13/25 14:10	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/13/25 14:10	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/13/25 14:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137					03/13/25 14:10	1
4-Bromofluorobenzene (Surr)	96		56 - 136					03/13/25 14:10	1
Toluene-d8 (Surr)	100		78 - 122					03/13/25 14:10	1
Dibromofluoromethane (Surr)	101		73 - 120					03/13/25 14:10	1

Client Sample ID: MW-192S_022825 Date Collected: 02/28/25 13:45 Date Received: 03/05/25 08:00

Lab Sample ID: 240-219858-2

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			03/12/25 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		68 - 127					03/12/25 01:21	1
Method: SW846 8260D - Vo	latile Organic	Compoun	ds by GC/MS						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/13/25 16:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/13/25 16:08	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/13/25 16:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/13/25 16:08	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/13/25 16:08	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/13/25 16:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137					03/13/25 16:08	1
4-Bromofluorobenzene (Surr)	96		56 - 136					03/13/25 16:08	1
Toluene-d8 (Surr)	101		78 - 122					03/13/25 16:08	1
Dibromofluoromethane (Surr)	100		73 - 120					03/13/25 16:08	1

Surrogate Summary

Job ID: 240-219858-1

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

Matrix: Water

			Pe	ercent Surro	gate Recove	ery (Acceptance Limits)	
		DCA	BFB	TOL	DBFM		
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)		
240-219858-1	TRIP BLANK_159	107	96	100	101		_
240-219858-2	MW-192S_022825	107	96	101	100		
_CS 240-648034/5	Lab Control Sample	96	99	102	97		
MB 240-648034/10	Method Blank	107	97	100	99		
Surrogate Legend							
DCA = 1,2-Dichloroet	hane-d4 (Surr)						
BFB = 4-Bromofluoro	henzene (Surr)						
DI DI I DI							
TOL = Toluene-d8 (Si	()						
	urr)						
TOL = Toluene-d8 (Si DBFM = Dibromofluo	urr) romethane (Surr)	0					_
TOL = Toluene-d8 (Si DBFM = Dibromofluo	urr)	Compound	ds (GC/	MS)			_
TOL = Toluene-d8 (So DBFM = Dibromofluo	urr) romethane (Surr)	Compound	ds (GC/	MS)		Prep Type: Total/N	Ž
TOL = Toluene-d8 (So DBFM = Dibromofluo	urr) romethane (Surr)	Compound		,	ogate Recove	Prep Type: Total/N	- -
TOL = Toluene-d8 (Si DBFM = Dibromofluo	urr) romethane (Surr)	Compound		,	ogate Recove		<u>\</u>
TOL = Toluene-d8 (Su DBFM = Dibromofluo lethod: 8260D S latrix: Water	urr) romethane (Surr)			,	ogate Recove		- -
TOL = Toluene-d8 (So DBFM = Dibromofluo lethod: 8260D S latrix: Water	urr) romethane (Surr) SIM - Volatile Organic	DCA		,	ogate Recove		
TOL = Toluene-d8 (St DBFM = Dibromofluo lethod: 8260D S latrix: Water Lab Sample ID 240-219858-2	urr) romethane (Surr) SIM - Volatile Organic	DCA (68-127)		,	ogate Recove		-
TOL = Toluene-d8 (St DBFM = Dibromofluo lethod: 8260D S latrix: Water Lab Sample ID 240-219858-2 240-219861-B-3 MS	urr) romethane (Surr) SIM - Volatile Organic Client Sample ID MW-192S_022825	DCA (68-127) 116		,	ogate Recove		
TOL = Toluene-d8 (Si DBFM = Dibromofluo	urr) romethane (Surr) CIM - Volatile Organic Client Sample ID MW-192S_022825 Matrix Spike	DCA (68-127) 116 120		,	ogate Recove		

Surrogate Legend

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

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

Lab Sample ID: MB 240-648034/10

Matrix: Water Analysis Batch: 648034

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/13/25 11:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/13/25 11:50	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/13/25 11:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/13/25 11:50	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/13/25 11:50	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/13/25 11:50	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137		03/13/25 11:50	1
4-Bromofluorobenzene (Surr)	97		56 - 136		03/13/25 11:50	1
Toluene-d8 (Surr)	100		78 - 122		03/13/25 11:50	1
Dibromofluoromethane (Surr)	99		73 - 120		03/13/25 11:50	1

Lab Sample ID: LCS 240-648034/5 Matrix: Water Analysis Batch: 648034

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	25.3		ug/L		101	63 - 134	
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	77 - 123	
Tetrachloroethene	25.0	25.8		ug/L		103	76 - 123	
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	75 - 124	
Trichloroethene	25.0	24.9		ug/L		100	70 - 122	
Vinyl chloride	25.0	30.1		ug/L		121	60 - 144	
105	105							

	LU3	LC3	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

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

Lab Sample ID: MB 240-647793/ Matrix: Water Analysis Batch: 647793	5						Client Sam	ple ID: Method Prep Type: To	
-	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/11/25 23:00	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		68 - 127					03/11/25 23:00	1

Job ID: 240-219858-1

Prep Type: Total/NA

Client Sample ID: Method Blank

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

QC Sample Results

Job ID: 240-219858-1

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

Lab Sample ID: LCS 240	-647793/3					Clie	nt Sar	nple ID	: Lab Cor		
Matrix: Water									Prep Ty	pe: Tot	al/NA
Analysis Batch: 647793											
			Spike	-	LCS				%Rec		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane			10.0	9.35		ug/L		93	75 - 121		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	116		68 - 127								
Lab Sample ID: 240-2198	61-B-3 MS						CI	ient Sa	mple ID: I	Matrix 3	Spike
Matrix: Water									Prep Ty		
Analysis Batch: 647793											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	2.0	U	10.0	10.3		ug/L		103	20 - 180		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	120		68 - 127								
Lab Sample ID: 240-2198	61-B-3 MSD					Client	Samp	le ID: N	latrix Spil	ke Dup	licate
Matrix: Water									Prep Ty	pe: Tot	al/NA
Analysis Batch: 647793											
	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	9.94		ug/L		99	20 - 180	4	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	121		68 - 127								

GC/MS VOA

Analysis Batch: 647793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219858-2	MW-192S_022825	Total/NA	Water	8260D SIM	
MB 240-647793/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-647793/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-219861-B-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-219861-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
Analysis Batch: 648	034				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219858-1	TRIP BLANK_159	Total/NA	Water	8260D	
240-219858-2	MW-192S_022825	Total/NA	Water	8260D	
MB 240-648034/10	Method Blank	Total/NA	Water	8260D	
LCS 240-648034/5	Lab Control Sample	Total/NA	Water	8260D	

Job ID: 240-219858-1

Job ID: 240-219858-1

Matrix: Water

Lab Sample ID: 240-219858-1

Client Sample ID: TRIP BLANK_159 Date Collected: 02/28/25 00:00 Date Received: 03/05/25 08:00

Analysis

	Batch	Batch		Dilution	Batch			Prepared	
Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D			648034	MS	EET CLE	03/13/25 14:10	
			~ =				Lak		0.040050
lient Sam	ple ID: MW	-192S 02282	25				Lap	Sample ID: 24	0-219858-
Date Collecte			25				Lab		0-219858- Matrix: Wate
ate Collecte		3:45	25				Lab		
ate Collecte	d: 02/28/25 1	3:45	25	Dilution	Batch		Lab		
Date Collecte	d: 02/28/25 1 d: 03/05/25 0	3:45 8:00	25 Run	Dilution Factor		Analyst	Lab	· ·	

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647793 R5XG

EET CLE

03/12/25 01:21

Laboratory References:

Total/NA

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

8260D SIM

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

Job ID: 240-219858-1

Laboratory: Eurofins Cleveland

	d by this laboratory are listed. Not all accredita	ations/certifications are applicable t	to this report.	
Authority	Program	Identification Number	Expiration Date	
Connecticut	State	PH-0806	12-31-26	
Georgia	State	4062	02-27-26	
Illinois	NELAP	200004	08-31-25	
owa	State	421	06-01-25	
Kansas	NELAP	E-10336	01-31-26	
Kentucky (WW)	State	KY98016	12-31-25	
Minnesota	NELAP	039-999-348	12-31-25	
New Hampshire	NELAP	225024	09-30-25	
New Jersey	NELAP	OH001	07-03-25	
New York	NELAP	10975	04-01-25	
Ohio	State	8303	11-04-25	
Ohio VAP	State	ORELAP 4062	02-28-26	
Oregon	NELAP	4062	02-27-26	
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	12-31-25	
Wisconsin	State	399167560	08-31-25	





Chain of Custody Record

TestAmerica Laboratory location: Farmington Hills --- 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

key Site Contact: Samaniha Szpaichler Lab Contact: Mike DelMonico COC No: Telephone: 248-994-2240 Telephone: 330-497-9396 1 of 1 COCs n Analyses Turnsround Tune I of 2 cocs TAT if different from below 3 weeks 0 000 000 000000000000000000000000000	Client Project Manager: Megan Meckley Site Contact: Samantha Szpaichler Lab Contact: Mike DelMonico COC No: rdfress: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 1 of 1 COCs try/State/Zip: Novi, MI, 48377 Email: kristoffer. hinskey@arcadis.com Analysis Teraaround Time Analysis Por lab use only oner: 248-994-2240 Sampler Name: I of 1 COCs I of 1 COCs Por lab use only oner: 248-994-2240 Sampler Name: I of y Use Vecks I of y Vecks Valkin dient opiect Name: Ford LTP I of y Use Vecks I of y Vecks I of y Vecks Valkin dient 0 day Y Vecks I of y Vecks I of y Vecks I of y Vecks Valkin dient 1 day Y Vecks I of y Vecks I of y Vecks I of y Vecks I of y Vecks Sample Identification Sample Date Sample Time I y Vecks I y Vecks I y Vecks I y Vecks Sample Specific Notes / Specific Notes	Client Contact	Kegula	tory program:		i.	- DW	,	1	PDES		⊢ R	CRA		Other								TestAmerica Labor:	atories.	
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WI-NC-099-123124 Cooler Receipt Form.doc



Temperature readings

MW 1928_022825	MW-1928_022825	MW-1928_022825	MW-192S_022825	MW-192S_022825	MW-192S_022825	TRIP BLANK_159	Client Sample ID
240-219858-F-2	240-219858-E-2	240-219858-D-2	240-219858-C-2	240-219858-B-2	240-219858-A-2	240-219858 A-1	Lab ID
Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochlorıc Acıd	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochlorıc Acıd	Voa Vial 40ml = Hydrochloric Acid	Voa Vial 40ml - Hydrochlorıc Acıd	Voa Vial 40ml - Hydrochloric Acıd	Container Type
							<u>Container</u> <u>Preservation</u> Preservation pH <u>Temp</u> <u>Added</u> Lot Number

DATA VERIFICATION REPORT



March 19, 2025

Megan Meckley Arcadis 28550 Cabot Drive Suite 500 Novi, MI US 48377

CADENA project ID: E203728 Project: Ford Livonia Transmission Plant - ON-SITE Soil Gas, Ground Water and Soil Project number: 30251157.401.04 (vapor 301.04) 30206169.0401.04 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 219858-1 Sample date: 2025-02-28 Report received by CADENA: 2025-03-19 Initial Data Verification completed by CADENA: 2025-03-19 Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

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.
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: 219858-1

		Sample Name:	TRIP BL/	ANK_159	9		MW-192	2S_0228	25	
		Lab Sample ID:	240219	8581			240219	8582		
		Sample Date:	2/28/20	25			2/28/20	25		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-826</u>	<u>0D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
<u>OSW-826</u>	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-219858-1 CADENA Verification Report: 2025-03-19

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 58563R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-219858-1 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	lysis
		Watrix	Collection Date		voc	VOC SIM
TRIP BLANK_159	240-219858-1	Water	02/28/2025		Х	
MW-192S_022825	240-219858-2	Water	02/28/2025		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfor Accep		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	

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.

DATA REVIEW

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

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA 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		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:

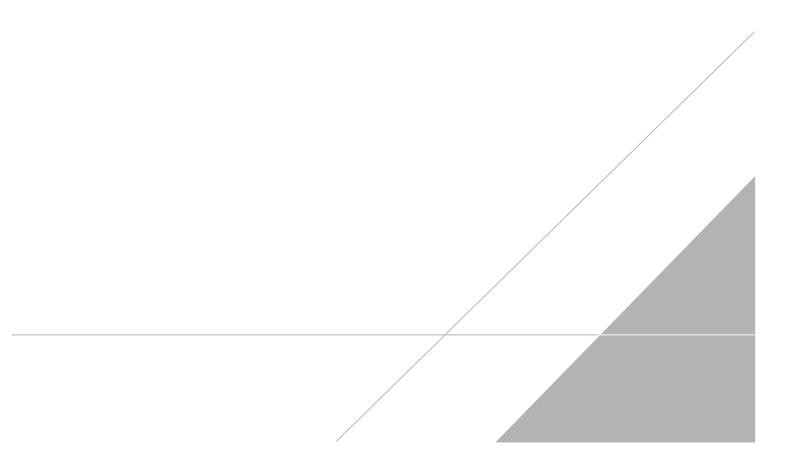
Parts

DATE: March 28, 2025

PEER REVIEW: Andrew Korycinski

DATE: March 31, 2025

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS







Chain of Custody Record

TestAmerica Laboratory location: Farmington Hills --- 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

ompany Name: Arcadis					- DW			I DES		R				-							TestAmerica Laboratorie		
	Client Project Manager: Megan Meckley			ckley			Site Contact: Samantha Szpaichler							L	Lab Contact: Mike DelMonico						COC No:		
ddress: 28550 Cabot Drive, Suite 500	Telephone: 248	: 248-994-2240 Telephone: 248-994-2240						Т	Telephone: 330-497-9396					-									
ty/State/Zip: Novi, MI, 48377				_				nalysis				_	_		Analyses						1 of 1 COCs		
ione: 248-994-2240	Email: kristofi	er.hinskey@ar	cadis.c	om					1 60 444	ii cana	Tunc		-	T			Т	Thaty			For lab use only		
oject Name: Ford LTP				TAT	different		low 3 weeks	, L										Walk-in client					
	Kin	King (Le Delles Method of Shipment/Carrier:			10	day		2 weeks	s										Lab sampling				
oject Number: 30206169.0401.03	Method of Ship	ment/Carrier:								1 week 2 days		(N)	94					8	N S				
) # US3460021848	Shipping/Track	ing No:							F 1	l day		le (Y	/Gri		260			826	32601		Job/SDG No:		
				M	atrix			Containe	rs & P	reserva	tives	Samp	Le LC	8260	CE		9	oride	ane				
Sample Identification	Sample Date	Sample Time	Air	Aqueous Sediment	Solid	Other:	H2S04		HOW	Va0H Unnres	Other:	Filtered Sample (Y / N)	Composite=C / Grab	1,1-DCE 8260D	cis-1,2-DCE 8260D	וומחצ-ו,צ-טטב סבטט מרב פסמח	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM		Sample Specific Notes Special Instructions:		
TRIP BLANK_ 159				1			-	1				-			x)	-	-	X			1 Trip Blank		
MW-1925_022825	2/28/25	1345		6				6			1	W	6	* :	< ;	~ >		×	~		3 VOAs for 8260D 3 VOAs for 8260D SI		
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Possible Hazard Identification	rritant 🗆 Poisc	on B	Jnkn	own			Sar			(Afee Client	e may be	Dispos	ed if s al By i	ample: Lab			longer ve For	than 1	month) Months				

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

Qualifiers

Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	
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.	
.	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	0
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	9
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)	13
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_159 Date Collected: 02/28/25 00:00 Date Received: 03/05/25 08:00

Job ID: 240-219858-1

Lab Sample ID: 240-219858-1

Matrix: Water

5 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/13/25 14:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/13/25 14:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/13/25 14:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/13/25 14:10	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/13/25 14:10	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/13/25 14:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			-		03/13/25 14:10	1
4-Bromofluorobenzene (Surr)	96		56 - 136					03/13/25 14:10	1
Toluene-d8 (Surr)	100		78 - 122					03/13/25 14:10	1
Dibromofluoromethane (Surr)	101		73 - 120					03/13/25 14:10	1

Client Sample ID: MW-192S_022825 Date Collected: 02/28/25 13:45 Date Received: 03/05/25 08:00

Lab Sample ID: 240-219858-2

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			03/12/25 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		68 - 127					03/12/25 01:21	1
Method: SW846 8260D - Vo	latile Organic	Compound	ds by GC/MS						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/13/25 16:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/13/25 16:08	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/13/25 16:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/13/25 16:08	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/13/25 16:08	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/13/25 16:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137					03/13/25 16:08	1
4-Bromofluorobenzene (Surr)	96		56 - 136					03/13/25 16:08	1
Toluene-d8 (Surr)	101		78 - 122					03/13/25 16:08	1
Dibromofluoromethane (Surr)	100		73 - 120					03/13/25 16:08	1