

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 3/6/2024 9:27:28 PM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-200190-1

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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Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396

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Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	5
Glossary		Э
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	Q
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	

Job ID: 240-200190-1

Eurofins Cleveland

Job Narrative 240-200190-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 2/29/2024 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 1.2°C and 2.8°C.

GC/MS VOA

Method 8260D: The matrix spike/matrix spike duplicate (MS/MSD) for samples TRIP BLANK_106 (240-200190-1) and MW-95S_022724 (240-200190-2) was not reported, because the analyte list for these samples did not match the analyte list for the MS/MSD parent sample.

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

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

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-200190-1	TRIP BLANK_106	Water	02/27/24 00:00	02/29/24 08:00
240-200190-2	MW-95S_022724	Water	02/27/24 16:10	02/29/24 08:00

Detection Summary

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

Client Sample ID: TRIP BLANK_106

No Detections.

Client Sample ID: MW-95S_022724

No Detections.

Eurofins Cleveland

Job ID: 240-200190-1 Lab Sample ID: 240-200190-1

Lab Sample ID: 240-200190-2

Client Sample ID: TRIP BLANK_106

Date Collected: 02/27/24 00:00 Date Received: 02/29/24 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			03/04/24 18:40	1	
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 18:40	1	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 18:40	1	
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 18:40	1	
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 18:40	1	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 18:40	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			-		03/04/24 18:40	1	
4-Bromofluorobenzene (Surr)	101		56 - 136					03/04/24 18:40	1	
Toluene-d8 (Surr)	89		78 - 122					03/04/24 18:40	1	
Dibromofluoromethane (Surr)	97		73 - 120					03/04/24 18:40	1	

Client Sample ID: MW-95S_022724

Date Collected: 02/27/24 16:10 Date Received: 02/29/24 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			03/05/24 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		68 - 127			-		03/05/24 15:44	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/04/24 22:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 22:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 22:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 22:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 22:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 22:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		03/04/24 22:52	1
4-Bromofluorobenzene (Surr)	97		56 - 136					03/04/24 22:52	1
Toluene-d8 (Surr)	94		78 - 122					03/04/24 22:52	1
Dibromofluoromethane (Surr)	85		73 - 120					03/04/24 22:52	1

3/6/2024

Job ID: 240-200190-1

Lab Sample ID: 240-200190-2 Matrix: Water

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

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8
9
3

		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-200190-1	TRIP BLANK_106	105	101	89	97
240-200190-2	MW-95S_022724	105	97	94	85
LCS 240-604901/5	Lab Control Sample	107	107	105	103
MB 240-604901/8	Method Blank	95	99	91	87
Surrogate Legend DCA = 1,2-Dichlorod BFB = 4-Bromofluor TOL = Toluene-d8 (\$	obenzene (Surr)				
DBFM = Dibromoflu	oromethane (Surr)				
/lethod: 8260D \$	SIM - Volatile Organic Co	mpounds (GC	/MS)		
latrix: Water					
-				Percent Su	rrogate Reco
		DCA			
Lab Sample ID	Client Sample ID	(68-127)			

Lab Sample ID	Client Sample ID	(68-127)
240-200101-E-2 MS	Matrix Spike	102
240-200101-E-2 MSD	Matrix Spike Duplicate	106
240-200190-2	MW-95S_022724	92
LCS 240-604941/4	Lab Control Sample	100
MB 240-604941/7	Method Blank	112
Surrogate Legend		

Surrogate Legend

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

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

Matrix: Water Analysis Batch: 604901

MB	МВ							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1.0	U	1.0	0.49	ug/L			03/04/24 17:50	1
1.0	U	1.0	0.46	ug/L			03/04/24 17:50	1
1.0	U	1.0	0.44	ug/L			03/04/24 17:50	1
1.0	U	1.0	0.51	ug/L			03/04/24 17:50	1
1.0	U	1.0	0.44	ug/L			03/04/24 17:50	1
1.0	U	1.0	0.45	ug/L			03/04/24 17:50	1
	Result 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	MB Result Qualifier 1.0 U 1.0 U	Result Qualifier RL 1.0 U 1.0 1.0 U 1.0	Result Qualifier RL MDL 1.0 U 1.0 0.49 1.0 U 1.0 0.49 1.0 U 1.0 0.44 1.0 U 1.0 0.44 1.0 U 1.0 0.51 1.0 U 1.0 0.44	Result Qualifier RL MDL Unit 1.0 U 1.0 0.49 ug/L 1.0 U 1.0 0.44 ug/L 1.0 U 1.0 0.44 ug/L 1.0 U 1.0 0.44 ug/L 1.0 U 1.0 0.41 ug/L 1.0 U 1.0 0.51 ug/L 1.0 U 1.0 0.44 ug/L	Result Qualifier RL MDL Unit D 1.0 U 1.0 0.49 ug/L - 1.0 U 1.0 0.46 ug/L - 1.0 U 1.0 0.44 ug/L - 1.0 U 1.0 0.44 ug/L - 1.0 U 1.0 0.51 ug/L - 1.0 U 1.0 0.44 ug/L -	Result Qualifier RL MDL Unit D Prepared 1.0 U 1.0 0.49 ug/L -	Result Qualifier RL MDL Unit D Prepared Analyzed 1.0 U 1.0 0.49 ug/L 03/04/24 17:50 1.0 U 1.0 0.46 ug/L 03/04/24 17:50 1.0 U 1.0 0.44 ug/L 03/04/24 17:50 1.0 U 1.0 0.44 ug/L 03/04/24 17:50 1.0 U 1.0 0.51 ug/L 03/04/24 17:50 1.0 U 1.0 0.44 ug/L 03/04/24 17:50 1.0 U 1.0 0.44 ug/L 03/04/24 17:50

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137		03/04/24 17:50	1
4-Bromofluorobenzene (Surr)	99		56 - 136		03/04/24 17:50	1
Toluene-d8 (Surr)	91		78 - 122		03/04/24 17:50	1
Dibromofluoromethane (Surr)	87		73 - 120		03/04/24 17:50	1

Lab Sample ID: LCS 240-604901/5 Matrix: Water Analysis Batch: 604901

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene		25.0	24.4		ug/L		98	63 - 134	
cis-1,2-Dichloroethene		25.0	26.4		ug/L		106	77 - 123	
Tetrachloroethene		25.0	25.5		ug/L		102	76 - 123	
trans-1,2-Dichloroethene		25.0	27.6		ug/L		110	75 - 124	
Trichloroethene		25.0	29.1		ug/L		116	70 - 122	
Vinyl chloride		12.5	9.58		ug/L		77	60 - 144	
	LCS LCS								

	LUS	LUS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		62 - 137
4-Bromofluorobenzene (Surr)	107		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	103		73 - 120

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

Lab Sample ID: MB 240-604941/7 Matrix: Water Analysis Batch: 604941							Client Sa	ample ID: Metho Prep Type: 1	
-	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/05/24 09:45	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		68 - 127			_		03/05/24 09:45	1

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

2 3 4 5 6 7 8 9 10

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

Lab Sample ID: LCS 240-604	4941/4						Client	Sample	ID: Lab C		
Matrix: Water									Prep 1	Гуре: То	tal/NA
Analysis Batch: 604941											
			Spike		LCS				%Rec		
Analyte			Added		Qualifier	Unit	<u>D</u>	%Rec	Limits		
1,4-Dioxane			10.0	9.12		ug/L		91	75 - 121		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	100		68 - 127								
Lab Sample ID: 240-200101-	E-2 MS							Client	Sample ID	· Matrix	Sniko
Matrix: Water	L-2 110							onent		Type: To	
Analysis Batch: 604941									Ticp	iype. 10	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	2.0	U	10.0	8.46		ug/L		85	20 - 180		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	102		68 - 127								
							0				
Lab Sample ID: 240-200101- Matrix: Water	E-2 WISD						Client Sa	ample IL): Matrix Sp		
									Prep	Гуре: То	tal/NA
Analysis Batch: 604941	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0		10.0	9.04		ug/L		90	20 - 180	7	20
	MSD	MSD									
Surrogate	%Recovery		Limits								
1,2-Dichloroethane-d4 (Surr)			68 - 127								

GC/MS VOA Analysis Batch: 604901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200190-1	TRIP BLANK_106	Total/NA	Water	8260D	
240-200190-2	MW-95S_022724	Total/NA	Water	8260D	
MB 240-604901/8	Method Blank	Total/NA	Water	8260D	
LCS 240-604901/5	Lab Control Sample	Total/NA	Water	8260D	
nalysis Batch: 60494					/
	1 Client Sample ID	Ргер Туре	Matrix	Method	Prep Batcl
nalysis Batch: 60494 Lab Sample ID 240-200190-2		Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
Lab Sample ID	Client Sample ID				Prep Batcl
Lab Sample ID 240-200190-2 MB 240-604941/7	Client Sample ID MW-95S_022724	Total/NA	Water	8260D SIM	Prep Batcl
Lab Sample ID 240-200190-2	Client Sample ID MW-95S_022724 Method Blank	Total/NA Total/NA	Water Water	8260D SIM 8260D SIM	Prep Batc

Client Sample ID: TRIP BLANK_106 Lab Sample ID: 240-200190-1 Date Collected: 02/27/24 00:00 Matrix: Water Date Received: 02/29/24 08:00 Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor Number Analyst Lab or Analyzed Total/NA 8260D 604901 CDG EET CLE 03/04/24 18:40 Analysis 1 Client Sample ID: MW-95S_022724 Lab Sample ID: 240-200190-2 Date Collected: 02/27/24 16:10 Matrix: Water Date Received: 02/29/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	604901	CDG	EET CLE	03/04/24 22:52
Total/NA	Analysis	8260D SIM		1	604941	MDH	EET CLE	03/05/24 15:44

Laboratory References:

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

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Accreditation/Certification Summary

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

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Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24 *
Illinois	NELAP	200004	07-31-24
lowa	State	421	06-01-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-01-24
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Chain of Custody Record

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

Client Contact	Regular	tory program:	1	DW	***	NPDE	5	RC	RA	- C	Ather									
ompany Name: Arcadis	Client Busient	Manager: Krisi	d land i av		Cit o	Conto	t: Chri	ntin a W		_		l ab (- cet a ct	Mille	DelMon					TestAmerica Laboratories, In
Idress: 28550 Cabot Drive, Suite 500	Chent Project	vianager: Krist	тшзкеу		Sile	Conta	a. Carr	51112 99	Cayer				_ UNI a CL	MIKE	Dention	ĸ			Ľ	
	Telephone: 248	-994-2240			Tele	phone	248-99	4-2240				Telep	ohone: 3	30-497	-9396					1 of 1 COC:
lty/State/Zlp: NovI, MI, 48377	Em all: kristoff	er.hinskey@are	adis.com		_	Analys	ls Turn:	around	Nme						Anal	'ses			F	or lab use only
none: 248-994-2240												Ī								Valk-in client
roject Name: Ford LTP Off-Site	Sampler Name		adia		1A1	ildiller	ent from be	:low 3 weeks	, —											valk-in chent
		pecca (<u>557191</u>	<u> </u>	_ 1	0 day		2 weeks 1 week	5							-			-	ab sampling
oject Number: 30167538.402.04	Method of Ship	ment/Carrier:	U					2 days		(x)	Grabed		82 60D		e	SIL			- 1	
D # 3016753&402.04	Shipping/Traci	dag No:					5	l day		Filtered Sample (Y / N)	OD OD	as-1,2-DCE 8260D	ж 80		e 82 60D	1,4-Dioxane 8260D SIM			<u>)</u>	ob/SDG Na
			M	l atrix		Conta	iners & F	reservat	tives	Sau	Composite=C / (1, 1-D CE 8260D	OCE 8	rans-1,2-DCE	00	TCE 82600 Vinyl Chloride	ane				
			1		5	8	Ŧ	_ = =		ered	DCE	1,2-C	1s-1,	PCE 82 60D	TCE 82600 Vinyl Chlori	Diox				Sample Specific Notes /
Sample I dentification	Sample Date	Sample Time	Air Aquéori	Sediment Solid Other:	H2SOH	HN 03	NaOH	ZnA d NeOH Uapti	Other:	Fat	1, Co	CS-	Trar	PCE	Vinv	1,4-				Special Instructions:
TRIP BLANK_ 000			1				1			N	G X	X	X	X I	x x					1 Trip Blank
	at day	ILIM	1.			1				A.I	Liv	X	v.	X	XX	X				3 VOAs for 8260D
MW-955-022724	2/27/2	1610	6				2			N	<u>6 X</u>	- ^-	X	~	<u> X X</u>					3 VOAs for 8260D SIM
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Possible Hazard Identification Non-Hazard Fammable Skin I	rritant Pois	on B	Unknown		s		Disposa		e may be		d If sam By Lab			ed long chive F			e) Onths			
pecial Instructions/QC Requirements & Comments:																				
iample Address: 1243 BOSHON DOSt submit all results through Cadena at Tomaliagicaden	Coderes																			
ubmit all results mrough Cadena at jtomalla@caden evel IV Reporting requested.	aco.com. Cadena	#E203 63 1																		
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elinquished by:	Company: Av Cau Company:	clas		ime: 28/24	na	20	R ece	ived by:	-	201	2.	TA	-	C	ompany	5	TA			2/28RY (OICO
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	Company.	1	Care	28/24	10		- Nece	ッパ	Vn	~. ,				<		-			13	2-29-24 Xm

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THE LEADER IN ENVIRONMENTAL TESTING

18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES I additional next page Samples processed by: 19 SAMPLE CONDITION were received after the recommended holding time had expured. Sample(s) were received after the recommended holding time had expured. Sample(s) were received with bubble >6 mm in diameter (Notify PMI) 20. SAMPLE PRESERVATION were received with bubble >6 mm in diameter (Notify PMI) Sample(s) were further preserved in the laboratory Time preserved. Preservative(s) added/Lot number(s) VOA Sample Preservation - Date/Time VOAs Frozen.	Barring Formal Sample.Receipt FormalNarrative Login H Condex increases
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#1-NC-189 Cooler Rocely Form Press 1 - Multiple Cuilet

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3/6/2024

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Login Sample Recei	ot Checklis	t		2
Client: Arcadis U.S., Inc.			Job Number: 240-200190-1	3
				4
Login Number: 200190			List Source: Eurofins Cleveland	
List Number: 1 Croator: Loar Malissa				5
Creator: Loar, Malissa				
Question	Answer	Comment		6
Radioactivity wasn't checked or is = background as measured by a survey<br meter.				7
The cooler's custody seal, if present, is intact.				
Sample custody seals, if present, are intact.				8
The cooler or samples do not appear to have been compromised or tampered with.				9
Samples were received on ice.				
Cooler Temperature is acceptable.				10
Cooler Temperature is recorded.				4.4
COC is present.				111
COC is filled out in ink and legible.				12
COC is filled out with all pertinent information.				
Is the Field Sampler's name present on COC?				13
There are no discrepancies between the containers received and the COC.				
Samples are received within Holding Time (excluding tests with immediate HTs)				14
Sample containers have legible labels.				15
Containers are not broken or leaking.				
Sample collection date/times are provided.				
Appropriate sample containers are used.				
Sample bottles are completely filled.				
Sample Preservation Verified.				
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs				
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").				
Multiphasic samples are not present.				
Samples do not require splitting or compositing.				

Residual Chlorine Checked.

DATA VERIFICATION REPORT



March 07, 2024

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: 30167538.402.04 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 200190-1 Sample date: 2024-02-27 Report received by CADENA: 2024-03-06 Initial Data Verification completed by CADENA: 2024-03-07 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.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

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: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 200190-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLANK_106 2402001901 2/27/2024				MW-95S <u>.</u> 2402001 2/27/202			
	Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
	Analyte	Cas No.	nesuli	LIIIIII	Units	Quatifier	nesuli	LIIIIII	Units	Qualifier
GC/MS VOC										
<u>OSW-8260D</u>	<u> </u>									
1	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
C	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
Т	Fetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
t	rans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
Т	Frichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
N	/inyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
<u>OSW-8260D</u>	SIM									
1	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 # 240-200190-1 CADENA Verification Report: 2024-03-07

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53349R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200190-1 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	Lab ID Matrix Sample		Barant Sampla	Ana	alysis	
Sample ID		Matrix	Collection Date	Parent Sample	VOC	VOC SIM	
TRIP BLANK_106	240-200190-1	Water	02/27/2024		Х		
MW-95S_022724	240-200190-2	Water	02/27/2024		Х	Х	

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

	Items Reviewed	Rep	orted		mance otable	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		X	
5.	Reporting limits		Х		Х	
6.	Sample collection date		Х		Х	
7.	Laboratory sample received date		Х		X	
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 (C	SC/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation	1	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

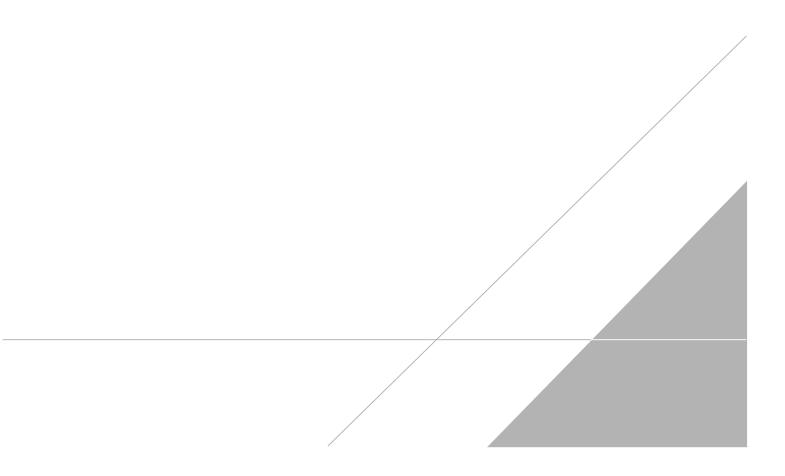
%D Percent difference

VALIDATION PERFORMED BY:	Dilip Kumar
SIGNATURE:	Perting
DATE:	March 21, 2024

PEER REVIEW: Andrew Korycinski

DATE: April 2, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record



Test	America Labora	tory location:	Brig	nton "					-	ghton, M		/ 810)-229-2	2763									EADER IN ENVIRONMENTAL TENTING
Client Contact	-	ory program:			DW		NPD			RCRA	1	Oth											
Company Name: Arcadis													1										estAmerica Laboratories, Inc
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	Telephone: 248	-994-2240				Tel	eph on	ie: 24	8-994-2	240	Telephone: 3				ne: 330-497-9396								
City/State/Zip: Novi, MI, 48377	Em all: kristoff	ar bla el av@ar	on die				Anal	ysis T	urnaro	und Nme						Analyses					F	1 of 1 COCs or labuse only	
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Project Number: 30167538.402.04	Method of Ship	ment/Carrier:		1							ź	D=C					0	SIM					
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				Aquéora Sediméné	Solid Other:	H2SO4	HN 03	_	NaOH Zna d NaOH	U apres Other:	Filtered	Composite=C / Grg b=G	1,1-DCE 8260D	as-1,2-DCE 82600	Trans-1,2-DCE	TCE 82600	Vinyl Chloride 82 60D	1,4-Dioxane 8260D SIM					Sample Specific Notes / Special Instructions:
Sample I dentification	Sample Date	Sample Time	<u>Ài</u>	Ped Sed	Solid	Ŧ	£	нсі	N Z	5 8	ž –	J	-	C.S			Š	<u> </u>		_			
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MW-955-022724	2/27/24	1610		0				Q			1	16	ト	$\overline{\ }$	$\leq $	^	- ×	\sim			\rightarrow		3 VOAs for 8260D SIM
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Client Sample ID: TRIP BLANK_106

Date Collected: 02/27/24 00:00

Date Received: 02/29/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/04/24 18:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 18:40	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 18:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 18:40	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 18:40	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 18:40	1
Surrogate	%Recovery	Qualifier	l imits				Prenared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dii Fac
1,2-Dichloroethane-d4 (Surr)	105	62 - 137		03/04/24 18:40	1
4-Bromofluorobenzene (Surr)	101	56 - 136		03/04/24 18:40	1
Toluene-d8 (Surr)	89	78 - 122		03/04/24 18:40	1
Dibromofluoromethane (Surr)	97	73 - 120		03/04/24 18:40	1

Client Sample ID: MW-95S_022724 Date Collected: 02/27/24 16:10 Date Received: 02/29/24 08:00

Dibromofluoromethane (Surr)

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS) **Result Qualifier** Analyte RL MDL Unit D Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 03/05/24 15:44 1 Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 03/05/24 15:44 92 68 - 127 1

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

85

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/04/24 22:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 22:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 22:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 22:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 22:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 22:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			-		03/04/24 22:52	1
4-Bromofluorobenzene (Surr)	97		56 - 136					03/04/24 22:52	1
Toluene-d8 (Surr)	94		78 - 122					03/04/24 22:52	1

73 - 120

Lab Sample ID: 240-200190-1 Matrix: Water

Lab Sample ID: 240-200190-2

Matrix: Water

03/04/24 22:52

1