

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 3/11/2024 6:58:15 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-200368-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Cleveland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

lowo

Generated 3/11/2024 6:58:15 AM 1

5

12 13

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

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	15
Lab Chronicle	16
Certification Summary	17
Chain of Custody	18

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	
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	

Job ID: 240-200368-1

Eurofins Cleveland

Job Narrative 240-200368-1

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 3/2/2024 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 2.4°C and 3.8°C.

GC/MS VOA

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

Eurofins Cleveland

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

5

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
240-200368-1	TRIP BLANK_88	Water	02/29/24 00:00	03/02/24 08:00
240-200368-2	MW-167S_022924	Water	02/29/24 13:55	03/02/24 08:00

Eurofins Cleveland 3/11/2024

Detection Summary

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

Client Sample ID: TRIP BLANK_88

No Detections.

Client Sample ID: MW-167S_022924

No Detections.

Lab Sample	ID:	240-200368-1

Lab Sample ID: 240-200368-2

Job ID: 240-200368-1

Client Sample ID: TRIP BLANK_88

Date Collected: 02/29/24 00:00 Date Received: 03/02/24 08:00

Method: SW846 8260D - Volati	le Organic Comp	ounds by G	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			03/07/24 21:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/07/24 21:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/07/24 21:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/07/24 21:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/07/24 21:31	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/07/24 21:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137			-		03/07/24 21:31	1
4-Bromofluorobenzene (Surr)	86		56 - 136					03/07/24 21:31	1
Toluene-d8 (Surr)	102		78 - 122					03/07/24 21:31	1
Dibromofluoromethane (Surr)	97		73 - 120					03/07/24 21:31	1

Job ID: 240-200368-1

Lab Sample ID: 240-200368-1

Matrix: Water

5 6

8 9

Eurofins Cleveland

Client Sample ID: MW-167S_022924

Date Collected: 02/29/24 13:55 Date Received: 03/02/24 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			03/08/24 03:43	1	÷.
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)			68 - 127			-		03/08/24 03:43	1	
Method: SW846 8260D - Volatile	e 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			03/08/24 02:32	1	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/24 02:32	1	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 02:32	1	
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/24 02:32	1	
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 02:32	1	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/24 02:32	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			-		03/08/24 02:32	1	
4-Bromofluorobenzene (Surr)	84		56 - 136					03/08/24 02:32	1	
Toluene-d8 (Surr)	102		78 - 122					03/08/24 02:32	1	
Dibromofluoromethane (Surr)	99		73 - 120					03/08/24 02:32	1	

3/11/2024

Job ID: 240-200368-1

Lab Sample ID: 240-200368-2 Matrix: Water

5 6

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

Matrix: Water

Prep Type: Total/NA

3 4 5 6 7 8 9 Prep Type: Total/NA

				Percent Su	rrogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-200286-D-5 MS	Matrix Spike	98	105	105	97
240-200286-D-5 MSD	Matrix Spike Duplicate	97	103	103	95
240-200368-1	TRIP BLANK_88	104	86	102	97
240-200368-2	MW-167S_022924	106	84	102	99
_CS 240-605359/4	Lab Control Sample	97	101	105	96
MB 240-605359/6	Method Blank	104	86	102	95
Surrogate Legend					
DCA = 1,2-Dichloroetha	ne-d4 (Surr)				
BFB = 4-Bromofluorober	nzene (Surr)				
TOL = Toluene-d8 (Surr))				

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

			Percent Surrogate Recovery (Acceptance Limits)	
		DCA		
Lab Sample ID	Client Sample ID	(68-127)		
240-200367-F-2 MS	Matrix Spike	115		
240-200367-F-2 MSD	Matrix Spike Duplicate	114		
240-200368-2	MW-167S_022924	111		
LCS 240-605381/4	Lab Control Sample	106		
MB 240-605381/6	Method Blank	107		

Surrogate Legend

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

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

Matrix: Water Analysis Batch: 605359

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/07/24 18:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/07/24 18:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/07/24 18:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/07/24 18:10	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/07/24 18:10	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/07/24 18:10	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 _ 137		03/07/24 18:10	1
4-Bromofluorobenzene (Surr)	86		56 - 136		03/07/24 18:10	1
Toluene-d8 (Surr)	102		78 - 122		03/07/24 18:10	1
Dibromofluoromethane (Surr)	95		73 - 120		03/07/24 18:10	1

Lab Sample ID: LCS 240-605359/4 Matrix: Water Analysis Batch: 605359

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	23.7		ug/L		95	63 - 134	
cis-1,2-Dichloroethene	25.0	25.6		ug/L		103	77 - 123	
Tetrachloroethene	25.0	24.3		ug/L		97	76 - 123	
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	75 - 124	
Trichloroethene	25.0	23.7		ug/L		95	70 - 122	
Vinyl chloride	12.5	9.51		ug/L		76	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

105

Lab Sample ID: 240-200286-D-5 MS Matrix: Water

Analysis Batch: 605359

Toluene-d8 (Surr)

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	200	U	5000	5170		ug/L		103	56 - 135	
cis-1,2-Dichloroethene	5800		5000	10300		ug/L		90	66 - 128	
Tetrachloroethene	200	U	5000	4740		ug/L		95	62 - 131	
trans-1,2-Dichloroethene	180	J	5000	5140		ug/L		99	56 - 136	
Trichloroethene	350		5000	4950		ug/L		92	61 - 124	
Vinyl chloride	2300		2500	3470		ug/L		45	43 - 157	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	98		62 - 137							
4-Bromofluorobenzene (Surr)	105		56 - 136							

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

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

Job ID: 240-200368-1 **Client Sample ID: Method Blank** Prep Type: Total/NA 5 10

Eurofins Cleveland

78 - 122

Lab Sample ID: 240-200286-D-5 MS

10

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

Analysis Batch: 605359			
	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	97		73 - 120

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

Lab Sample ID: 240-200286-D-5 MSD Matrix: Water

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

Analysis Batch: 605359

Matrix: Water

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	200	U	5000	4890		ug/L		98	56 - 135	6	26
cis-1,2-Dichloroethene	5800		5000	10600		ug/L		95	66 - 128	3	14
Tetrachloroethene	200	U	5000	4910		ug/L		98	62 - 131	3	20
trans-1,2-Dichloroethene	180	J	5000	5310		ug/L		102	56 - 136	3	15
Trichloroethene	350		5000	5080		ug/L		95	61 - 124	3	15
Vinyl chloride	2300		2500	4250		ug/L		76	43 - 157	20	24
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	97		62 - 137								
4-Bromofluorobenzene (Surr)	103		56 - 136								
Toluene-d8 (Surr)	103		78 - 122								
Dibromofluoromethane (Surr)	95		73 - 120								

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

Market and Market											Chefft 3	Sample ID: Metho	
Matrix: Water												Prep Type: 1	otal/NA
Analysis Batch: 605381													
		MB											
Analyte	Re		Qualifier	RL		MDL				Pi	repared	Analyzed	Dil Fac
1,4-Dioxane		2.0	U	2.0		0.86	ug/L					03/07/24 21:19	1
		ΜВ	МВ										
Surrogate	%Reco	very	Qualifier	Limits						PI	repared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)		107		68 - 127					_			03/07/24 21:19	1
Lab Sample ID: LCS 240-605381/4	4								CII	ont	Sample	ID: Lab Control	Sample
Matrix: Water	·								01	em	Jampie	Prep Type: 1	
Analysis Batch: 605381												тер туре. т	otaint
Analysis Batch. 000001				Spike	LCS	LCS						%Rec	
Analyte				Added	Result	Qual	ifier	Unit		D	%Rec	Limits	
1,4-Dioxane				10.0	10.5			ug/L		_	105	75 - 121	
	LCS	LCS											
		<u> </u>	· •·										
Surrogate	%Recovery	Qual	itier	Limits									
Surrogate 1,2-Dichloroethane-d4 (Surr)	%Recovery 106	Qual	itier	68 - 127									
1,2-Dichloroethane-d4 (Surr)	106	Qual	mer								Client	Sample ID: Matri	x Spike
	106	Qual	mer								Client	Sample ID: Matri Prep Type: 1	
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-200367-F-2 M	106	Qual	<u>mer _</u>								Client	Sample ID: Matri Prep Type: 1	
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-200367-F-2 M Matrix: Water	106				MS	MS					Client		
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-200367-F-2 M Matrix: Water	106 IS	Samj	ble	68 - 127	MS Result		lifier	Unit		D	Client %Rec	Prep Type: 1	

Eurofins Cleveland

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	115		68 - 127								
Lab Sample ID: 240-200367-	F-2 MSD					c	lient Sa	ample ID): Matrix Sp	oike Dup	olicate
Matrix: Water									Prep T	Type: To	tal/NA
Analysis Batch: 605381											
	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	11.4		ug/L		114	20 - 180	2	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)			68 - 127								

Eurofins Cleveland

GC/MS VOA

Analysis Batch: 605359

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200368-1	TRIP BLANK_88	Total/NA	Water	8260D	
240-200368-2	MW-167S_022924	Total/NA	Water	8260D	
MB 240-605359/6	Method Blank	Total/NA	Water	8260D	
_CS 240-605359/4	Lab Control Sample	Total/NA	Water	8260D	
240-200286-D-5 MS	Matrix Spike	Total/NA	Water	8260D	
	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-200286-D-5 MSD nalysis Batch: 605381		Iotal/NA	Water	02000	
nalysis Batch: 605381	1				Pron Batch
nalysis Batch: 605381 Lab Sample ID		Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
nalysis Batch: 605381 Lab Sample ID 240-200368-2	1 Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
nalysis Batch: 605381 Lab Sample ID 240-200368-2 MB 240-605381/6	1 <u>Client Sample ID</u> <u>MW-167S_022924</u>	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
	1 Client Sample ID MW-167S_022924 Method Blank	Prep Type Total/NA Total/NA	Matrix Water Water	Method 8260D SIM 8260D SIM	Prep Batch

Matrix: Water

Client Sample ID: TRIP BLANK_88

Lab Sample	ID:	240-200368-1
		Matrix: Water

Date Collected: 02/29/24 00:00 Date Received: 03/02/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analvsis	8260D			605359	CDG	EET CLE	03/07/24 21:31

Client Sample ID: MW-167S_022924 Date Collected: 02/29/24 13:55

Date Received: 03/02/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	605359	CDG	EET CLE	03/08/24 02:32
Total/NA	Analysis	8260D SIM		1	605381	CS	EET CLE	03/08/24 03:43

Laboratory References:

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

Accreditation/Certification Summary

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

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	06-30-24
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



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

Client Contact	Regulat	tory program	:	ſ	- DW		171	NPDE	s		RCRA		- O	ther										
Company Name: Arcadis	Client Project	Manager: Kris	Hinsi	ev			Site	Onta	t: C	hristi	a a Weav	er			l.al	Cont	act: M	ke De	Monie	0				TestAmerica Laboratories, II
Address: 28550 Cabot Drive, Suite 500																								
City/State/Zip: Novi, Mi, 48377	Telephone: 248	-994-2240						pit on e							Tel	ephon	e: 330-							1 of 1 COCs
Phone: 248-994-2240	Em all: kristoff	er.hin skey@ar	rcadis	com			-	Analys	ls Ta	Irnard	mil best	ic .			-	-		A	nalys	ies			-	For lab use only
	Sampler Name	. ,	,		. 1		TAT	if differ																Walk-in client
Project Name: Ford LTP Off-Site	Mar	jam 1	10	ne	n		10) dav		3 1														Lab sampling
Project Number: 30167538.402.04	Method of Ship	ment/Carrier:					1		1	- 1 - 2 - 2 - 2 - 2	veek		Î	5		0				SIM				
PO # 30167538.402.04	Shipping/Track	ing No:					1		÷	- 10			2	Q ELS	82600	82 60D			82 60D	8260D				Job/SDG Na
	_	1	1	M	atrix			Centa	in ers	& Pre	servatives				826	1 18			de 8	e 82(
									T				Filtered Sample (Y/N)	Composite=C/ Grab=G	dis-1.2-DCE	Trans-1,2-DCE	PCE 82 60D	82600	Vinyl Chloride	1,4-Dioxane				Sample Specific Notes / Special Instructions:
Sample I dentification	Sample Date	Sample Time	Aír	apA	Solid	đ	H2SO4	HN 03	Du la	PWZ	U upte: Other:	5	ž d	9 :	SO	Tra	PC	TCE	Ň	1,4-				Special Tastractions
TRIP BLANK_ 7-8				1				·	1				N	G)	< X		X	X	X					1 Trip Blank
MW-1675_022924	2/29/24	1355		X		_		4	0			ļ	V	\hat{q})	<	X	X	\mathbf{x}	X	X				3 VOAs for 8260D 3 VOAs for 8260D SIM
										+						1								
				+				+	\uparrow	+			+			\top	+	1	1			-	+	
										1111 111			n 1903	HILL		NUM HOLE	1	+				-		
				+			\vdash											-						
				+	-		+											-	\vdash		-	+		
	_			_			+	2	40-2	2003	68 Cha	in of (Cust	ody				_				+	+	
								_	-	-	1-1-		1	_	_	1	1							
												1												
Possible Hazard Identification			4				Sa				A fee ma								than 1					
Non-Hazard Rammable Skin Ir Special Instructions/QC Requirements & Comments:	ritant Poise	in B	Unk	nown			1	Re	elu m	to Cli	ent	✓ Dis	posal	By La	ıb		Archiv	eFor		Mo	onths	_		
Sample Address: 12001 Stork																								
Submit all results through Cadena at jtomalia@cadena Level IV Reporting requested.	ico.com. Cadena #	E203631																						
Relinquished by Masugaullanace	Avcad	is .			724	ľ	100)	R		UI C	old	A	mu	72			Com Al		1k				2/29/24 1700
Relinquished by	Company	elis		Date'T 3(112		50		R	ecerte	dby	1		0	<u>.</u>			Com	pany LA	TA				DelierTime: 31/24 ISOC
Relinquisher LOUA	Corporation			Dallent	Ine Du	1521	5		R	reive		tor	y by:					600						Berne USA
	1 107			- 11	e L					M	1.2	$n\mu$	N						\sim	\mathcal{N}	<u>`</u>			D 0 0 0 0 0 M

C2008, Testamerica Laboratories, Inc. All rights reserved, Testamerica 3. Design ¹⁹ aretrademarks of Testamerica Laboratories, Inc.

19 SAMPLE CONDITION were received after the recommended holding time had expired Sample(s)	erc/pustody seals on the outside of the cooler(s)? If Yes Quantity To No Tests that are not evaluation of the cooler(s)? If Yes Quantity To No Tests that are not checked for pH up mperforms of the cooler(s)? upperformation of the cooler(s)? Tests that are not checked for pH up mperforms of the cooler(s)? Tests that are not checked for pH up mperforms of the cooler(s)? Tests that are not checked for pH up mperforms of the cooler(s)? Tests that are not checked for pH up mperforms of the cooler(s)? Tests that are not checked for pH up mperforms of the cooler(s)? Tests that are not checked for pH up mperforms of the cooler(s)? Tests that are not checked for pH up mperforms of the cooler(s)? Tests that are not checked for pH up mperforms of the cooler(s)? Tests that are not checked for pH up mperform mchances of the cooler(s)? Tests that are not the cooler(s)? Tests that are not checked for pH up mperform mchances of the cooler(s)? Tests that are not the cooler(s)? Tests that are not checked for pH up mperform mchances of the cooler(s)? Tests that are not the coo	Eurofins - Cleveland Sample Receipt Form/Narrative Login # Barberton. Facility Site Name Client HCUC Site Name Cooler unpacked by Cooler Received on Provide Site Name Cooler Received on Provide Site Name FedEx 1st Grd Client Drop Off Eurofins Courier Receipt After-hours Drop-off Date/Time Storage Location Eurofins Cooler # Foam Box Client Cooler Packing material used Eurofine Storage Location Cooler temperature upon fice Dry Ice Water I Cooler temperature upon fice Dry Ice Water I R GUN # (CE °C) Observed Cooler Temp °C Corrected Cooler Temp
--	--	---

WI NC 099

8
94 – S
8
0
5
5
4
2
Rectipi j
<u>.</u>
2
· ·
-6°
3
a .
`
Ξ.
x –
~
1
5
5
5.
- S
~
0
- 2
5
-

Ibx Offset IR GIN # Ibx Offset	Mar manual control collection control collection collec	N CUNET		3 3
Ind One INGINE T_T_T_T_T_T_T_T_T_T_T_T_T_T_T_T_T_T_T_	Right Right Right	x x	X X X X X X X X X X X X X X X X X X X	
Inv Incluit T	Colored Colore	RCMN F: RCMN F:RCMN F:		
Ibr Offen IR GIVE T <tht< th=""> <tht< th=""> <tht< th=""> <tht< th=""><td>and a state of a state</td><td>R GRA ST THE THE THE THE THE THE THE THE THE TH</td><td>X X X X X X X X X X X X X X X X X X X</td><td></td></tht<></tht<></tht<></tht<>	and a state of a state	R GRA ST THE THE THE THE THE THE THE THE THE TH	X X X X X X X X X X X X X X X X X X X	
Ibr Offen INCURF T <tht< th=""> T T <th< th=""><td>Historic Collection Historic Collection Historic</td><td>RCMN C: X GRN C:</td><td></td><td></td></th<></tht<>	Historic Collection Historic	RCMN C: X GRN C:		
Ibr Offer IR GIVE T <tht< th=""> <tht< th=""> T <th< th=""><td>Right Market Right Market</td><td>N N N N N N N N N N N N N N N N N N N</td><td></td><td></td></th<></tht<></tht<>	Right Market	N N N N N N N N N N N N N N N N N N N		
Ior One ILGUN J_TT Z J_L J_L Ior One RGUN RGUN ILGUN ILGUN <td< th=""><td>Bit Anyon Bit Anyon <t< td=""><td>NON N N N N N N N N N N N N N N N N N N</td><td></td><td></td></t<></td></td<>	Bit Anyon Bit Anyon <t< td=""><td>NON N N N N N N N N N N N N N N N N N N</td><td></td><td></td></t<>	NON N N N N N N N N N N N N N N N N N N		
Ibr Offen INGINE T <tht< th=""> T <th< th=""><td>egiment of the second s</td><td>R GRA CAN CAN CAN CAN CAN CAN CAN CAN CAN CA</td><td></td><td></td></th<></tht<>	egiment of the second s	R GRA CAN CAN CAN CAN CAN CAN CAN CAN CAN CA		
Ior Other In GIN # T	RY MARK RY	N CON R N CON		
Ior One IRGINITY T <tht< th=""> T T <th< th=""><td>IS AND ASIAN IS AND ASIAN IS</td><td>N S C S N S C</td><td>X X X X X X X X X X X X X X X X X X X</td><td></td></th<></tht<>	IS AND ASIAN IS	N S C S N S C	X X X X X X X X X X X X X X X X X X X	
Iox Other IR GIN # T Z H D: Iox ONAF IN GUN # T Z H D:	No even estant Harman Steve estant Steve	N CON ST N C	X X X X X X X X X X X X X X X X X X X	
Iox One-r IRGINF T T T D.T D.T <thd.t< th=""> D.T <thd.t< th=""> <thd.t< th=""> <thd.t< th=""></thd.t<></thd.t<></thd.t<></thd.t<>	Riewing Stick Stark	N N N N N N N N N N N N N N N N N N N	E E E E E E E E E E	
Iox One IR GIN # T T T D.Y. One IR GIN # T T T D.Y. One IR GIN # T T T D.Y. One IR GIN # T <tht< th=""> T T T</tht<>	Hermine He	N N N N N N N N N N N N N N N N N N N		
Ibx Ofher IR GUN # T	R MM Stang Crim R MM R MM	R GAN ST CAN ST		
Ibx Ofher IR GUN # T	I dente de la letter I de letter de la letter I de letter de la letter I de lett	R C C R C R C R C R C R C R C R C R C R	X X X X X X X X X X	
IDX Office IR GIN # T T T D, T T T D, T T T T D, T T <tht< th=""> T T <tht< th=""></tht<></tht<>	a and a array ar	R GEN S	E E E E E E E E	
Ibx OfHer IR GIN # T T H	a tent state 1	N GW T	T T T T T T T	
Ibr Other IL.GUN # T T T D.T Other IL.GUN # T T D.T D.T Other IL.GUN # T D.T Other IL.GUN # D.T Other IL.GUN # D.T Other IL.GUN # D.T Other IL.GUN # D.T D.T Other IL.GUN # D.T D.T <thd.t< th=""> <thd.t< th=""> <thd.t< th=""></thd.t<></thd.t<></thd.t<>	Clark Clark Harthan Clark Clark Clark Clark Clark Clark Clark Clark Clark Clark Clark Clark Clark Clark Clark Clark	R GIN 2:	₹ ₹ ₹ ₹ ₹ ₹	
IDX OHAF IL.GUN # T T T IDX OHAF IL.GUN # IL.GUN # T T IDX	al ang cai phi al ang		I I I I I I	
Pox Other IR GIN #	Wetter Barbon States	RGX T		
Ion Other IL GUN # T T T Ion Other IL GUN #	APPAN APPAN	R GIN f:	₹ ₹ ₹ ¥	
Fox Other IR GUN # T T A Fox Other IR GUN # T T A<	Wetter Berter	R GIN #	¥ ¥ ¥	
Ior Other IR GUN # T			<u>s</u>	
Iox Other IR GUN # Iox Other II GUN #		* GW	Š	
Iox Offset IR GUN #	0 4M 41 4M		,	
Iox Other IR GUN #	Wetter Ner 10	the case of the ca	ž	Б 011
Iox Offset IR GUN # Iox Offset III # Iox Offset III # Iox Offset III # Iox Offset III	Wells How Is		Į	
Iox Offset IR GUN # Iox Offset III # Iox Offset III # Iox Offset III # Iox Offset III		* CVN ?:		
Iox Offset IR GUN # Iox Offset IIII # Iox Offset IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		R GIN #:		8 0.1
Iox Offset IR GUN #		* GIN ?:		HC Clent
Iox Offset IR GUN #	or one of MA	R 64N 8:		IC Clent
Ibx Offset IR GUN # Iby IR GUN # IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	34 ave a3 MM			KC Clent
Iox Offset IR GUN #	24 aver 24 MAN			5 241
Iox Offset IR GUN #	at every and the second s			
In other IR GUN # TTT Z H D. U	WHIEP HAP R			
Iox Offer IRGUNI 11 Z H D.C	Welke Wet	R GUN A:	ł	
Iox other INGUNI +++ Z H D.U	How	R GUN #:		त दुर्म
Iox other Inguni 11 24 D.4	Wdw H	IX GUN 6:		IC CI+n
	4			C CHAN
		IR GUN P;	tox Other	
		(Circie)	rcle)	(C)
ption IR Gun # Observed Corrected (Circle)		IR Gun #	escription	Cooler Do

Login#:_

14

DATA VERIFICATION REPORT



March 11, 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: 200368-1 Sample date: 2024-02-29 Report received by CADENA: 2024-03-11 Initial Data Verification completed by CADENA: 2024-03-11 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 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: 200368-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2402003 2/29/202	681			MW-167 2402003 2/29/202	682	4	
	Analuta	Cas No	Docult	Report	Unito	Valid Qualifiar	Dogult	Report	Unito	Valid Qualifiar
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-8260</u>	<u>)D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	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-8260</u>	DSIM									
	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 # 240-200368-1 CADENA Verification Report: 2024-03-11

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53324R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200368-1 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	Barant Sampla	Ana	lysis
Sample ID		Matrix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_88	240-200368-1	Water	02/29/2024		Х	
MW-167S_022924	240-200368-2	Water	02/29/2024		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
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		X	
Tier III Validation				1	1
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	
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:	Bindu Sree M B
SIGNATURE:	BASh_MB
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







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

Client Contact Company Name: Arcadis	Regulat	ory program	:	Γ	DW	5	NPDE	s	Г	RCRA	Г	Oth	er										TestAmerica	Labora	tories le
	Client Project N	lanager: Kris	H Inske	ey.		Site	Conta	et: Cl	hristin	a Weaver			-	Lab C	ontac	t: MII	ke D el	Monic	0				COC Na		101103, 11
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240			-	Tel	eph og e	: 248	-994-23	240				Telep	hone:	330-4	97-93	96				-			_
City/State/Zip: Novi, Mi, 48377										ad Ime	-							nalys	<u>es</u>				1 of For lab use on		2003
Phone: 248 -994- 2240	Em all: kristoff	er.nin skey@a	-cadis.c								1														
Project Name: Ford LTP Off-Site	Sampler Name MOK	ian f	las	nen	ù		Tildalle IOI dav	٢	m below 3 we ✓ 2 we														Walk-in client		
Project Number: 30167538.402.04	Method of Ship	ment/Carrier:					,		- 1 wa		Î	C)			0				SIM				, ,		
°O # 30167538.402.04	Shipping/Track	Ing No:							- da		12)	Grab-		82600	82 60D			82 60[600				Job/SDG Na		
				M al	trix		Conta	da ers o	& Pres	ervatives		10-	8260D		DCE	0	0	ride	18 82					_	
Sample I dentification	Sample Date	Sample Time	Ţ	Aquíous Sedimént	Solid Other:	H2SO4	KN 03	HCI	ZnA d NaOH	U apres Other:	Filtered Sample (Y/N)	Composite	1,1-DCE 8	as-1,2-DCE	Trans-1,2-DCE	P.CE 82 60D	TCE 82600	Vinyl Chloride 82 60D	1,4-Dioxane 8260D					Specific P I Instruct	
TRIP BLANK_ Z-Z			T	1				1			-	G			X	X	X	X					1 Тгір Е	Blank	C
MW-1675_022924	2/29/24	1355		×				6				Ģ			X		x	×	X	_			3 VOAs 3 VOAs		
	_			-				+	-											_					_
				+					+		+										_				
							2	240-2	20036	8 Chain	of Cu	stod	У												
	_							+			+						 	_							
Possible Hazard I dentification						s	ample	Dispo	osal (A	fee may b	e 255 e5	sed If	sam p	les are	retal	ned la	nger 1	han 1	month)						
Non-Hazard Flammable Skin Ir Special Instructions/QC Requirements & Comments:	ritant Poisc	n B (Unkn	Own	-		R	elurn	to Clie	ni 🗸	Dispo	sal By	Lab	1	_ A	rchive	For		Mor	nths	-	_			
Sample Address: 12001 StOLY C. Submit all results through Cadena at jtomalia@cadena Level IV Reporting requested.	ico.com. Cadena #	E203631																							
Relinquished by: Mayaullanace	Company: Avcad	îs		2129	24	1700	>	R	ecerved	I COK	18	ton	ge				Com; Al	any:	lis				2/29/24	1 170	∞
Junger 1	Company Avcad Company TYLe	dis	C	3(1 3	124	150		R	ecerted U	by fl	/		0				Com	E E	TA		_		Date Type:	150	70
Relinquished by	COMPA			3/1/2	mg 15	30		R	Felved	1 n Labor	tory by	у: Л							in	_		•	D'ale Time:	34.	8pr

C2006, Testamerica Laboratories, Inc. All rights reserved, Testamerica & Design ^{(**} are trademarks of Testamerica Laboratories, Inc.

Client Sample ID: TRIP BLANK_88

Date Collected: 02/29/24 00:00

Date Received: 03/02/24 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			03/07/24 21:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/07/24 21:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/07/24 21:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/07/24 21:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/07/24 21:31	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/07/24 21:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	DII I
1,2-Dichloroethane-d4 (Surr)	104		62 - 137		03/07/24 21:31	
4-Bromofluorobenzene (Surr)	86		56 - 136		03/07/24 21:31	
Toluene-d8 (Surr)	102		78 - 122		03/07/24 21:31	
Dibromofluoromethane (Surr)	97		73 - 120		03/07/24 21:31	

Client Sample ID: MW-167S_022924 Date Collected: 02/29/24 13:55 Date Received: 03/02/24 08:00

Dibromofluoromethane (Surr)

Lab Sample ID: 240-200368-2

Matrix: Water

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/08/24 03:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		68 - 127					03/08/24 03:43	1

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

99

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/08/24 02:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/24 02:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 02:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/24 02:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 02:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/24 02:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			-		03/08/24 02:32	1
4-Bromofluorobenzene (Surr)	84		56 - 136					03/08/24 02:32	1
Toluene-d8 (Surr)	102		78 - 122					03/08/24 02:32	1

73 - 120

03/08/24 02:32

1

Lab Sample ID: 240-200368-1 Matrix: Water