PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 11/13/2023 4:47:45 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-194767-1

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

Generated 11/13/2023 4:47:45 AM

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

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-194767-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-194767-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

CNF

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

DER Duplicate Error Ratio (normalized absolute difference)

Contains No Free Liquid

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

Estimated Detection Limit (Dioxin) EDL LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Case Narrative

Client: ARCADIS US Inc

Job ID: 240-194767-1

Project/Site: Ford LTP - Off Site

Job ID: 240-194767-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-194767-1

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 11/3/2023~8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.8° C, 2.2° C and 2.9° C

GC/MS VOA

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

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Method Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

Job ID: 240-194767-1

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

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

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Sample Summary

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-194767-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-194767-1	TRIP BLANK_69	Water	11/01/23 00:00	11/03/23 08:00
240-194767-2	MW-94S_110123	Water	11/01/23 13:55	11/03/23 08:00

Detection Summary

Client: ARCADIS US Inc Job ID: 240-194767-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_69 Lab Sample ID: 240-194767-1

No Detections.

Client Sample ID: MW-94S_110123 Lab Sample ID: 240-194767-2

No Detections.

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-194767-1

Project/Site: Ford LTP - Off Site

Date Received: 11/03/23 08:00

Client Sample ID: TRIP BLANK_69

Lab Sample ID: 240-194767-1 Date Collected: 11/01/23 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/09/23 19:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/09/23 19:38	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/09/23 19:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/09/23 19:38	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/09/23 19:38	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/09/23 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137			-		11/09/23 19:38	1
4-Bromofluorobenzene (Surr)	104		56 ₋ 136					11/09/23 19:38	1
Toluene-d8 (Surr)	106		78 - 122					11/09/23 19:38	1
Dibromofluoromethane (Surr)	108		73 - 120					11/09/23 19:38	1

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-194767-1

Project/Site: Ford LTP - Off Site

Date Received: 11/03/23 08:00

Analyte

Client Sample ID: MW-94S_110123

Lab Sample ID: 240-194767-2 Date Collected: 11/01/23 13:55

Matrix: Water

Analyzed

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/09/23 19:05	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		66 - 120					11/09/23 19:05	

MDL Unit

Prepared

1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L		11/09/23 22:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L		11/09/23 22:24	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L		11/09/23 22:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L		11/09/23 22:24	1
Trichloroethene	1.0	U	1.0	0.44	ug/L		11/09/23 22:24	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L		11/09/23 22:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137				11/09/23 22:24	1
4-Bromofluorobenzene (Surr)	101		56 ₋ 136				11/09/23 22:24	1
Toluene-d8 (Surr)	104		78 - 122				11/09/23 22:24	1
Dibromofluoromethane (Surr)	104		73 - 120				11/09/23 22:24	1

Dil Fac

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-194767-1 Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Su	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-194767-1	TRIP BLANK_69	108	104	106	108
240-194767-2	MW-94S_110123	101	101	104	104
240-194769-H-1 MS	Matrix Spike	100	101	100	101
240-194769-I-1 MSD	Matrix Spike Duplicate	99	101	99	98
LCS 240-594104/5	Lab Control Sample	111	114	111	110
MB 240-594104/8	Method Blank	111	108	110	110
Surrogate Legend					

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-194630-D-4 MS	Matrix Spike	84	
240-194630-D-4 MSD	Matrix Spike Duplicate	75	
240-194767-2	MW-94S_110123	100	
LCS 240-594018/4	Lab Control Sample	82	
MB 240-594018/6	Method Blank	93	
Surrogate Legend			

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

Eurofins Cleveland

11/13/2023

Job ID: 240-194767-1

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-594104/8

Matrix: Water

Analysis Batch: 594104

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB Dil Fac Analyte Result Qualifier RLMDL Unit D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 11/09/23 18:02 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 11/09/23 18:02 1.0 U 1.0 0.44 ug/L 11/09/23 18:02 Tetrachloroethene trans-1,2-Dichloroethene 1.0 U 1.0 11/09/23 18:02 0.51 ug/L Trichloroethene 1.0 U 1.0 0.44 ug/L 11/09/23 18:02 Vinyl chloride 1.0 U 1.0 0.45 ug/L 11/09/23 18:02

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		62 - 137		11/09/23 18:02	1
4-Bromofluorobenzene (Surr)	108		56 ₋ 136		11/09/23 18:02	1
Toluene-d8 (Surr)	110		78 - 122		11/09/23 18:02	1
Dibromofluoromethane (Surr)	110		73 - 120		11/09/23 18:02	1

Lab Sample ID: LCS 240-594104/5

Matrix: Water

Analysis Batch: 594104

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	27.3		ug/L		109	63 - 134	
cis-1,2-Dichloroethene	25.0	25.4		ug/L		102	77 - 123	
Tetrachloroethene	25.0	26.9		ug/L		108	76 - 123	
trans-1,2-Dichloroethene	25.0	26.0		ug/L		104	75 - 124	
Trichloroethene	25.0	25.9		ug/L		103	70 - 122	
Vinyl chloride	12.5	12.1		ug/L		97	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			62 - 137
4-Bromofluorobenzene (Surr)	114		56 ₋ 136
Toluene-d8 (Surr)	111		78 - 122
Dibromofluoromethane (Surr)	110		73 - 120

Lab Sample ID: 240-194769-H-1 MS

Matrix: Water

Analysis Batch: 594104

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	25.0	24.6		ug/L		98	56 - 135	
cis-1,2-Dichloroethene	1.5		25.0	25.5		ug/L		96	66 - 128	
Tetrachloroethene	0.46	J	25.0	23.0		ug/L		90	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	24.5		ug/L		98	56 - 136	
Trichloroethene	0.90	J	25.0	23.6		ug/L		91	61 - 124	
Vinyl chloride	0.78	J	12.5	12.3		ug/L		92	43 - 157	

MS MS

Surrogate	%Recovery Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100	62 - 137
4-Bromofluorobenzene (Surr)	101	56 - 136
Toluene-d8 (Surr)	100	78 - 122

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Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Job ID: 240-194767-1

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

Lab Sample ID: 240-194769-H-1 MS

Matrix: Water

Analysis Batch: 594104

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

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 101 73 - 120

Lab Sample ID: 240-194769-I-1 MSD

Matrix: Water

Analysis Batch: 594104

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	25.0	25.0		ug/L		100	56 - 135	2	26
cis-1,2-Dichloroethene	1.5		25.0	26.4		ug/L		100	66 - 128	4	14
Tetrachloroethene	0.46	J	25.0	23.4		ug/L		92	62 - 131	2	20
trans-1,2-Dichloroethene	1.0	U	25.0	24.4		ug/L		98	56 - 136	0	15
Trichloroethene	0.90	J	25.0	24.0		ug/L		93	61 - 124	2	15
Vinyl chloride	0.78	J	12.5	12.3		ug/L		92	43 - 157	0	24

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	99		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

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

Lab Sample ID: MB 240-594018/6

Matrix: Water

Analysis Batch: 594018

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/09/23 11:33	1
	МВ	MB							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 93 66 - 120 11/09/23 11:33

Lab Sample ID: LCS 240-594018/4

Matrix: Water

Analysis Batch: 594018

	Spike	LCS	LCS			%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1.4-Dioxane	10.0	10.8		ua/l		108	80 122	

LCS LCS

2.0 U

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 82

Lab Sample ID: 240-194630-D-4 MS

Matrix: Water

1,4-Dioxane

Analysis Batch: 594018

Client Sample ID: Matrix Spike

51 - 153

107

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec

10.0

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10.7

ug/L

QC Sample Results

Client: ARCADIS US Inc Job ID: 240-194767-1

Project/Site: Ford LTP - Off Site

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

%Recovery Qualifier

75

		MS	MS	
	Surrogate	%Recovery	Qualifier	Limits
L	1,2-Dichloroethane-d4 (Surr)	84		66 - 120

Lab Sample ID: 240-194630-D-4 MSI

Matrix: Water

Surrogate

1,2-Dichloroethane-d4 (Surr)

_	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	10.3	-	ug/L		103	51 - 153	4	16
	MSD	MSD									

Limits

66 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

Job ID: 240-194767-1

GC/MS VOA

Analysis Batch: 594018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194767-2	MW-94S_110123	Total/NA	Water	8260D SIM	
MB 240-594018/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-594018/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-194630-D-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-194630-D-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 594104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194767-1	TRIP BLANK_69	Total/NA	Water	8260D	<u> </u>
240-194767-2	MW-94S_110123	Total/NA	Water	8260D	
MB 240-594104/8	Method Blank	Total/NA	Water	8260D	
LCS 240-594104/5	Lab Control Sample	Total/NA	Water	8260D	
240-194769-H-1 MS	Matrix Spike	Total/NA	Water	8260D	
240-194769-I-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-194767-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_69

Lab Sample ID: 240-194767-1 Date Collected: 11/01/23 00:00

Matrix: Water

Date Received: 11/03/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	594104	CDG	EET CLE	11/09/23 19:38

Client Sample ID: MW-94S_110123 Lab Sample ID: 240-194767-2

Date Collected: 11/01/23 13:55 Matrix: Water

Date Received: 11/03/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	594104	CDG	EET CLE	11/09/23 22:24
Total/NA	Analysis	8260D SIM		1	594018	MRL	EET CLE	11/09/23 19:05

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-194767-1 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
Georgia	State	4062	02-27-24
Ilinois	NELAP	200004	07-31-24
owa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23 *
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-02-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
√irginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-23

Eurofins Cleveland

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

<u>4</u>

Client Contact	Regulatory program: DW NPDES RCRA Other	NPDES RCRA Other		
Company Name: Arcadis			and the second	TestAmerica Laboratories Inc.
Addison 1988 P. Lee D. L. C. Otto Ban	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
Augress: 2000 Cabor Drive, Suite 500	Telephone: 248-994-2240	Telephone: 248-994-2240	Telembrae: 118.497-9194	
City/State/Zip: Novi, MI, 48377				1 of 1 COCs
Phone: 248-994-2246	Email: Kristoffer.hinskey@srcadis.com		Analyses	For lab use only
Project Name: Ford LTP Off-Site	Sampler Name:	ent from b		Walk-in client
Project Number: 30167538.402.04	Ē	6		Lab sampling
PO# 30167538.402.04	Shipping/Tracking No:	-drnJ	9260D 8260D	Job/SDG No.
	Matrix	/3-	D DCE	
Sample Identification	Sample Date Sample Time Air	Patented Se Composition Canal Ca Ca Ca Ca Ca Ca Ca Ca Ca Ca Ca Ca Ca		Sample Specific Notes / Special Instructions:
TRIP BLANK 69	- 1		× × × × ×	1 Trip Blank
C51011-945-110123	11/25 1355	3	X	3 VOAs for 8260D
	-			3 VOAS for 8260U SIM
of 20			240-194767 Chain of Custody	
Possible Hazard Identification		Sarralo Disnosa I A formation		
ammable neats & Comments: Sooth	Skin Irritant Poison B Unknown 7 RS F pademecs.com. Cadema (#2893631	Return to Client Disposal By Lab Archive For	impers are retained longer than 1 months ab Archive For Months	
Relinquishedby Kasper	Company.	1700 Received by: Cold	Company:	Date Ting: / 1700
Relinquished, by:	Company: Date Time:	1023 Received by:	Company	
Reinquibled by:	Company: Date/Time: 11-3-3-3	1093 Received in Laboratory by:	218 CETE	In
COOK TEAMINGS Lightwisting his Adjoin reserved. Lightwist Despir as transmiss of raddomiss Laboratores, Inc.		0	A	

TestAmerica

Chain of Custody Record

18. CHAIN OF CUSTO	ODY & SAMPLE DISCREPANCIES	additional next page	Samples processed by:
19. SAMPLE CONDIT	TION		
		fter the recommended hold	ling time had expired.
Sample(s)			-
Sample(s)	were received a	were received	d in a broken container.
Sample(s)	were received a	were received	d in a broken container.
Sample(s) Sample(s)	were received awere rec	were received with bubble >6 mm	d in a broken container.

Login #: 194767

			Eurofins - Cantor	Sample Receipt M	lultiple Cooler Fo	orm
Cool	er Descri	ption	IR Gun#	Observed	Correcte	d Coolant
	(Circle)		(Circle)	Temp °C	Temp °	
(£C) C	lent Box	Other	IR GUN #:	(.)	2.2	Wel ice Blue ice Dry ice Water None
(E) C	lent Box	Other	IR GUN #:	7.8	2.9	Wet ice Blue ice Dry Ice
(EG C	lent Box	Other	IR GUN #: 22	(7.7	1.8	Wet ice Blue ice Dry Ice
EC C	ient Box	Other	IR GUN #:			Wel ice Slue ice Dry Ice Water None
EC C	ient Sox	Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC C	lent Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
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IC C	lent Box	Other	R GUN #:			Wet ice Stue ice Dry ice Water Mone
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EC C	lent Box	Other	R GUN #:			Wet Ice Stue Ice Dry Ice Water None
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EC C	lent Box	Other	IR GUN #:			Wet ice Nue Ice Dry Ice Water None
EC C	lent Box	Other	# GUN #:			Wet ice Nue ice Dry ice Water Hone
EC C	lent Box	Other	IR GUN #:			Wet Ice Nive Ice Dry Ice Water None
EC C	lent Box	Other	IR GUN #:			Wel Ice Nee Ice Dry Ice Water None
€C C	ient Box	Other	IR GUN #:			Wet Ice Nue Ice Dry Ice Water None
EC C	ient Sox	Other	IR GUN #:			Wel Ice Nue Ice Dry Ice Water None
EC C	ent Box	Other	R GUN #:			Wef ice Nue ice Dry ice Water None
EC C	ient Box	Other	IR GUN #:			Wet ice Nue ice Dry ice Water None
EC C	ent Box	Other	IR GUN 8:			Wellice Nuelice Drylice Water Name
€C C	ent Box	Other	IR GUN #:		1	Wellice Blue Ice Dry Ice Water Mone
EC CI	ent Box	Other	IR GUN #:			Wellice Blue Ice Dry Ice Water Hone
€C CI	ent Box	Other	IR GUN #:			Wet ice Nue ice Dry ice Water None
EC CI	ent Box	Other	IR GUN #:			Wat ice Blue ice Dry ice Water None
EC CI	ent Box	Other	IR GUN #:			Wellice Blue Ice Dry Ice Water Mone
EC CI	ent Box	Other	R GUN #:			Wellice Blue Ice Dry Ice Water Name
EC CI		Other	IR GUN #:			Wel Ice Blue Ice Dry Ice Water Mone
EC CE		Other	IR GUN #:			Wet ice Sive ice Dry ice Water Mone
EC CI		Other	R GUN #:			Wefice Blue Ice Dry Ice
					☐ Se	Water None Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

DATA VERIFICATION REPORT



November 16, 2023

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 off-site

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 194767-1 Sample date: 2023-11-01

Report received by CADENA: 2023-11-16

Initial Data Verification completed by CADENA: 2023-11-16

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 http://clms.cadenaco.com/index.cfm.

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: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 194767-1

		Sample Name:	TRIP BLA	ANK_69			MW-949	5_11012	3	
		Lab Sample ID:	2401947	7671			2401947	7672		
		Sample Date:	11/1/20	23			11/1/20	23		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>OD</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	
OSW-826	<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 # 240-194767-1

CADENA Verification Report: 2023-11-16

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 52110R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-194767-1 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
Sample ID	Labib	IVIALITA	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_69	240-194767-1	Water	11/01/2023		X	
MW-94S_110123	240-194767-2	Water	11/01/2023		Х	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance otable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
Requested analyses and sample results		Х		Х	
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	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
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.

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 VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation					
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		X	
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: BAShims

DATE: December 13, 2023

PEER REVIEW: Andrew Korycinski

DATE: December 13, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record



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

Client Contact	Regulat	tory program	:		DW			NPDE	rs.		RC		10110	Oth								-				The state of the s
Company Name: Arcadis								01			- NC	-		Otu	1											TestAmerica Laboratories, Inc
Address: 28550 Cabot Drive, Suite 500	Client Project !	Manager: Kris	Hinsk	ey			Site	Conta	et: Ch	ristic	as W	eaver				Lab (Contac	et: Mil	ke Del	Monte	:0					COC No:
City/State/Zip: Novl, MI, 48377	Telephone: 248	994-2240					Tele	phone	: 248-	994-2	2240					Telep	bone:	330-4	97-93	196					\neg	
	Email: kristoff	er.hinskey@ar	rcadis.	com				Analy	ישניי			Time		-			-	_	A	nalys	ies					1 of 1 COCs For lab use only
Phone: 248-994-2240	Sampler Name						TAT	if differ	ant from	a badaa		-														
Project Name: Ford LTP Off-Site	Sampler Name	Kent K	1/10	20					CHE HUII	3 v	veeks															Walk-in client
Project Number: 30167538.402.04	Method of Ship	ment/Carrier:	SI				1	0 day		1 v	veeks veek lays		2	y							SIM					Lab sampling
PO # 30167538.402.04	Shipping/Track	dag No:								1 d	-		te (N/N)	C/Grab	٥	260D	8260			82600	82600 9					Job/SDG No:
				N	latrix			Conta	dners d	i in	ervat	res	11	Y	8260D	CE 8	100-	8	8	oride	ne 8					
Sample Identification	Sample Date	Sample Time	Alr	Aqueous	Solid	Other:	H2SO4	HNO3	HCI	ZnAc/	Unpres	Other	Filtered	Composit	1,1-DCE	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8280D	CE 8260D	Vinyi Chloride 8260D	1,4-Dioxane					Sample Specific Notes / Special Instructions:
TRIP BLANK_ 69				1					1	T	T		N	G		Х	Х	Х	Х	X						1 Trip Blank
mw-945-110123	11/1/22	1355		6					1				W	C	X	X	X	X	x	X	x					3 VOAs for 8260D 3 VOAs for 8260D SIM
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Sample Address: 11680 Booten & Submit all results through Cadena at Itomalia@cadena	S/ co.com. Cadena i	F203631																								
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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-194767-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_69

Lab Sample ID: 240-194767-1

Date Collected: 11/01/23 00:00 **Matrix: Water** Date Received: 11/03/23 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			11/09/23 19:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/09/23 19:38	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/09/23 19:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/09/23 19:38	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/09/23 19:38	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/09/23 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137					11/09/23 19:38	1
4-Bromofluorobenzene (Surr)	104		56 ₋ 136					11/09/23 19:38	1
Toluene-d8 (Surr)	106		78 - 122					11/09/23 19:38	1
Dibromofluoromethane (Surr)	108		73 - 120					11/09/23 19:38	1

Client Sample ID: MW-94S_110123 Lab Sample ID: 240-194767-2 **Matrix: Water**

Date Collected: 11/01/23 13:55

Date Received: 11/03/23 08:	00								
Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)									
Analyte	_	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/09/23 19:05	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	100		66 - 120			-		11/09/23 19:05	
Mathadi CW04C 02C0D Vo	oletile Overenie	C	de by CC/MC						
Method: SW846 8260D - Vo	•		•		11	_	Duamanad	Amakamad	D:: F-
Analyte		Qualifier	RL		Unit	<u>D</u> .	Prepared	Analyzed	Dil Fa
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/09/23 22:24	•
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/09/23 22:24	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/09/23 22:24	
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/09/23 22:24	
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/09/23 22:24	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/09/23 22:24	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	101		62 - 137					11/09/23 22:24	
4-Bromofluorobenzene (Surr)	101		56 ₋ 136					11/09/23 22:24	
Toluene-d8 (Surr)	104		78 - 122					11/09/23 22:24	
Dibromofluoromethane (Surr)	104		73 - 120					11/09/23 22:24	