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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 11/13/2023 4:43:04 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-194757-1

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

Generated 11/13/2023 4:43:04 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-194757-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-194757-1

Project/Site: Ford LTP - Off Site

Qualifiers

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Qualifier	Qualifier Description
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
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
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)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit

ML Minimum Level (Dioxin)

MDN Met Probable Number

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

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Case Narrative

Client: ARCADIS US Inc

Job ID: 240-194757-1

Project/Site: Ford LTP - Off Site

Job ID: 240-194757-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-194757-1

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 Job ID: 240-194757-1

Project/Site: Ford LTP - Off Site

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

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Sample Summary

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-194757-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-194757-1	TRIP BLANK_62	Water	11/01/23 00:00	11/03/23 08:00
240-194757-2	MW-78_110123	Water	11/01/23 16:40	11/03/23 08:00

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-194757-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_62 Lab Sample ID: 240-194757-1

No Detections.

Client Sample ID: MW-78_110123 Lab Sample ID: 240-194757-2

No Detections.

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-194757-1

Project/Site: Ford LTP - Off Site

Date Received: 11/03/23 08:00

Client Sample ID: TRIP BLANK_62

Lab Sample ID: 240-194757-1 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 19:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/09/23 19:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/09/23 19:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/09/23 19:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/09/23 19:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/09/23 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			-		11/09/23 19:22	1
4-Bromofluorobenzene (Surr)	77		56 ₋ 136					11/09/23 19:22	1
Toluene-d8 (Surr)	100		78 - 122					11/09/23 19:22	1
Dibromofluoromethane (Surr)	96		73 - 120					11/09/23 19:22	1

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-194757-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-78_110123

Date Received: 11/03/23 08:00

Lab Sample ID: 240-194757-2 Date Collected: 11/01/23 16:40

Matrix: Water

Method: SW846 8260D SIM -	Volatile Organic C	ompounds	s (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			11/09/23 16:19	1
Surrogate	%Recovery	Qualifier	Limits			_	Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Quaimer	Limits			_	Preparea	Analyzea	DII Fac
1,2-Dichloroethane-d4 (Surr)	96		66 - 120					11/09/23 16:19	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			11/10/23 01:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/10/23 01:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/10/23 01:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/10/23 01:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/10/23 01:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/10/23 01:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			_		11/10/23 01:13	1
4-Bromofluorobenzene (Surr)	80		56 ₋ 136					11/10/23 01:13	1
Toluene-d8 (Surr)	102		78 - 122					11/10/23 01:13	1
Dibromofluoromethane (Surr)	98		73 - 120					11/10/23 01:13	1

Surrogate Summary

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-194757-1

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-194630-E-3 MS	Matrix Spike	94	91	102	95
240-194630-E-3 MSD	Matrix Spike Duplicate	95	94	105	96
240-194757-1	TRIP BLANK_62	101	77	100	96
240-194757-2	MW-78_110123	105	80	102	98
LCS 240-594107/5	Lab Control Sample	97	90	104	96
MB 240-594107/8	Method Blank	104	78	100	96

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	
240-194757-2	MW-78_110123	96	
LCS 240-594018/4	Lab Control Sample	82	
MB 240-594018/6	Method Blank	93	
Surrogate Legend			
DCA = 1,2-Dichloroetha	ne-d4 (Surr)		

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Job ID: 240-194757-1

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

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

Lab Sample ID: MB 240-594107/8

Matrix: Water

Analysis Batch: 594107

Client S	ample ID: Method Blank
	Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/09/23 18:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/09/23 18:06	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/09/23 18:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/09/23 18:06	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/09/23 18:06	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/09/23 18:06	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137		11/09/23 18:06	1
4-Bromofluorobenzene (Surr)	78		56 ₋ 136		11/09/23 18:06	1
Toluene-d8 (Surr)	100		78 - 122		11/09/23 18:06	1
Dibromofluoromethane (Surr)	96		73 - 120		11/09/23 18:06	1

Lab Sample ID: LCS 240-594107/5

Matrix: Water

Analysis Batch: 594107

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	25.2		ug/L		101	63 - 134	
cis-1,2-Dichloroethene	25.0	21.7		ug/L		87	77 - 123	
Tetrachloroethene	25.0	26.2		ug/L		105	76 - 123	
trans-1,2-Dichloroethene	25.0	22.7		ug/L		91	75 - 124	
Trichloroethene	25.0	22.9		ug/L		92	70 - 122	
Vinyl chloride	12.5	10.8		ug/L		86	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	90		56 ₋ 136
Toluene-d8 (Surr)	104		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-194630-E-3 MS

Matrix: Water

Analysis Batch: 594107

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	450	J	15600	14000		ug/L		87	56 - 135	
cis-1,2-Dichloroethene	53000	E F1	15600	60400	E F1	ug/L		49	66 - 128	
Tetrachloroethene	630	U	15600	14300		ug/L		91	62 - 131	
trans-1,2-Dichloroethene	630	U	15600	12600		ug/L		80	56 - 136	
Trichloroethene	630	U	15600	13300		ug/L		85	61 - 124	
Vinyl chloride	410	J	7810	6700		ug/L		81	43 - 157	

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	91		56 - 136
Toluene-d8 (Surr)	102		78 - 122

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Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Job ID: 240-194757-1

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

Lab Sample ID: 240-194630-E-3 MS

Lab Sample ID: 240-194630-E-3 MSD

Matrix: Water

Analysis Batch: 594107

Dibromofluoromethane (Surr)

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS Surrogate

%Recovery Qualifier Limits 95 73 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 594107

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	450	J	15600	13900		ug/L		86	56 - 135	1	26
cis-1,2-Dichloroethene	53000	E F1	15600	59000	E F1	ug/L		40	66 - 128	2	14
Tetrachloroethene	630	U	15600	15000		ug/L		96	62 - 131	5	20
trans-1,2-Dichloroethene	630	U	15600	13000		ug/L		83	56 - 136	3	15
Trichloroethene	630	U	15600	13900		ug/L		89	61 - 124	5	15
Vinyl chloride	410	J	7810	5990		ug/L		71	43 - 157	11	24

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 95 62 - 137 4-Bromofluorobenzene (Surr) 94 56 - 136 Toluene-d8 (Surr) 105 78 - 122 Dibromofluoromethane (Surr) 96 73 - 120

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

MR MR

Lab Sample ID: MB 240-594018/6

Matrix: Water

Analysis Batch: 594018

Client Sample ID: Method Blank

Prep Type: Total/NA

Dil Fac Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 11/09/23 11:33 MB 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			Prep Type: Total/NA
Analysis Batch: 594018			
	Spike	LCS LCS	%Rec

Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 10.0 10.8 ug/L 108 80 - 122 LCS LCS

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

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

Matrix: Water

Analysis Batch: 594018											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	2.0	U	10.0	10.7		ug/L		107	51 - 153		

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

QC Sample Results

Client: ARCADIS US Inc Job ID: 240-194757-1

Project/Site: Ford LTP - Off Site Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

MS MS		
INIO INIO		

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

Lab	Sample	ID:	240-1	94630-D-4	MSD

Matrix: Water Analysis Batch: 594018

Analysis Buton. 004010	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

i, i Diexaire	2.0	•	
	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	75		66 - 120

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

QC Association Summary

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

Job ID: 240-194757-1

GC/MS VOA

Analysis Batch: 594018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194757-2	MW-78_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: 594107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194757-1	TRIP BLANK_62	Total/NA	Water	8260D	<u> </u>
240-194757-2	MW-78_110123	Total/NA	Water	8260D	
MB 240-594107/8	Method Blank	Total/NA	Water	8260D	
LCS 240-594107/5	Lab Control Sample	Total/NA	Water	8260D	
240-194630-E-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-194630-E-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-194757-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_62

Lab Sample ID: 240-194757-1 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 -	594107	CDG	EET CLE	11/09/23 19:22

Client Sample ID: MW-78_110123 Lab Sample ID: 240-194757-2

Date Collected: 11/01/23 16:40 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	594107	CDG	EET CLE	11/10/23 01:13
Total/NA	Analysis	8260D SIM		1	594018	MRL	EET CLE	11/09/23 16:19

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
Project/Site: Ford LTP - Off Site

Job ID: 240-194757-1

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
Illinois	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
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-23

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

Testa Testa	Ćhain TestAmerica Laboratory location: Brighton 10448 Citati	Chain of Custody Record 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	-229-2763	TestAmerica
Client Contact Company Name: Areadis	Regulatory program: DW	NPDES RCRA Other	er f	
Address: 28550 Cabot Drive. Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	LestAmerica Laboratories, Inc. COC No:
City/State/Zip: Novi, MI, 48377	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone; 330-497-9396	
Phone: 248-994-2240	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	For lab use only
Project Name: Ford LTP Off-Site	Sampler Name:	TAT if different from below 3 weeks		Walk-in client
Project Number: 30167538.402.04	Method of Shipment/Carrier:	1 week 2 days	(Lab sampling
PO # 30167538.402.04	Shipping/Tracking No:	/ रु) श	8560D	Job/SDG No:
	Matrix	Containers & Preservativ	10xsue 82 Chloride 3-1,2-DCE 83 2-0,2-DCE 83	Sample Specific Notes /
Sample Identification	Sample Date Sample Time Air Aquee Solid		cis-1, Trans PCE	Special Instructions:
\sim TRIP BLANK_ 6%		1 N	× × × × ×	1 Trip Blank
MW-78 110123	11/11/23 1040 6	200	メメメメメ	3 VOAs for 8260D 3 VOAs for 8260D SIM
Pa				
18 18 18 18 18 18 18 18 18 18 18 18 18 1				
88 of				
20				
		240-10475		
			Chain of Custody	
Possible Hazard Identification Non-Hazard Flammable Skin Irritant	ant Poison B Unknown	Sample Disposal (A fee may be assessed if	Sample Disposal (A fee may be assessed if samples are retained longer than I month) Return to Chent Disposed By 1 ah Archive Ene [Name of the content of	
Special Instructions/QC Requirements & Comments: Sample Address:			A TENO	
Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested	Óζ	RACON PON		
Relinquished by: Collin Soft Silver	Company: Date/Time:	17 3 Received by:	Company:	Date/Time:
	Date/Time:		Company	Date/Tinfe: / 17.5 / 1.5
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WI-MC+099/2023

VOA Sample Preservation - Date/Time VOAs Frozen:

Login #: 194757

F	, and the second			Eurofins - Canto	n Sample Receipt M	lultiple Cooler Form	
C	ooler D	escr	iption	IR Gun#	Observed	Corrected	Coolant
	(C)	rcle)		(Circle)	Temp °C	Temp °C	(Circle)
(FC)	Client	Box	Other	IR GUN#:	(.)	2-2	Wet ice Blue ice Dry ice Water None
(EĜ	Cllent	Box	Other	IR GUN #:	7.8	1. 2.9	Wet ice Blue ice Dry ice Water None
(Eg	Client	Вох	Other	IR GUN #:	(7.7)	1.8	Wet ice Blue ice Dry ice Water None
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EC	Client	Box	Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
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EC	Client	Box	Other	IR GUN #:			Wet ice Sive ice Dry ice Water None
EC	Client	Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC	Client	Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
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EC	Client	Box	Other	IR GUN #:			Wet ice Bive ice Dry ice Water None
EC	Client	Box	Other	IR GUN #:			Wet ice Blue ice Dry ice
	Client		Other	IR GUN #:			Water None Wet ice Blue ice Dry ice
						☐ See Temp	Water None erature 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: 194757-1 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.

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch MS/MSD recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

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 Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI $48108\ 517\text{-}819\text{-}0356$

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: 194757-1

		Sample Name:	TRIP BLANK_62				MW-78_110123			
		Lab Sample ID:	2401947	7571			2401947	7572		
		Sample Date: 1		23			11/1/2023			
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<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	
OSW-8260	<u>DSIM</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 # 240-194757-1

CADENA Verification Report: 2023-11-16

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 52077R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-194757-1 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	Analysis	
Sample 10	Labib	Wallix	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_62	240-194757-1	Water	11/01/2023		X	
MW-78_110123	240-194757-2	Water	11/01/2023		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Performance Acceptable		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		Reported		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	
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		X		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 05, 2023

PEER REVIEW: Andrew Korycinski

DATE: December 11, 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 Regulatory program: DW **NPDES RCRA** Other Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 COCs 1 of Email: kristoffer.hinskey@arcadis.com **Analysis Turnaround Time** Analyses For lab use only Phone: 248-994-2240 TAT if different from below Sampler Name: Walk-in client Project Name: Ford LTP Off-Site 3 weeks 10 day 2 weeks Lab sampling Project Number: 30167538.402.04 Method of Shipment/Carrier: 1 week S Composite=C/Grab=G Filtered Sample (Y / N) rans-1,2-DCE 8260D 2 days /inyl Chloride 8260D PO # 30167538.402.04 ,4-Dioxane 8260D Shipping/Tracking No: 1 day Job/SDG No: Matrix Containers & Preservatives CE 8260D H2SO4 Sample Specific Notes / Unpres NaOH НС Special Instructions: Sample Identification Sample Date Sample Time TRIP BLANK_ 67 NG Χ Х Χ Χ 1 Trip Blank 6 3 VOAs for 8260D X 3 VOAs for 8260D SIM Page of 359 Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Skin Irritant ✓ Non-Hazard Flammable Poison B Unknown Disposal By Lab Return to Client Archive For Special Instructions/QC Requirements & Comments: Sample Address: Beacon Submit all results through Cadena at jtomalia@cadenaco.com, Cadena #E203631 Level IV Reporting requested. Relinquished by: Received by: Relinquished by

11/2/25

Relinquished by

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-194757-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_62

Lab Sample ID: 240-194757-1

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 19:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/09/23 19:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/09/23 19:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/09/23 19:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/09/23 19:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/09/23 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137					11/09/23 19:22	1
4-Bromofluorobenzene (Surr)	77		56 - 136					11/09/23 19:22	1
Toluene-d8 (Surr)	100		78 - 122					11/09/23 19:22	1
Dibromofluoromethane (Surr)	96		73 - 120					11/09/23 19:22	1

Client Sample ID: MW-78_110123 Lab Sample ID: 240-194757-2

Date Collected: 11/01/23 16:40 Date Received: 11/03/23 08:00

Method: SW846 8260D SIN	I - Volatile Orga	anic Comp	ounds (GC/N	/IS)					
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 16:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		66 - 120			-		11/09/23 16:19	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/10/23 01:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/10/23 01:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/10/23 01:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/10/23 01:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/10/23 01:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/10/23 01:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137					11/10/23 01:13	1
1-Bromofluorobenzene (Surr)	90		56 126					11/10/22 01:12	1

н	•	-		•	
	1,2-Dichloroethane-d4 (Surr)	105	62 - 137	11/10/23 01:13	1
	4-Bromofluorobenzene (Surr)	80	56 ₋ 136	11/10/23 01:13	1
	Toluene-d8 (Surr)	102	78 - 122	11/10/23 01:13	1
	Dibromofluoromethane (Surr)	98	73 - 120	11/10/23 01:13	1
ľ					

Matrix: Water