

Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Canton 4101 Shuffel Street NW North Canton, OH 44720 Tel: (330)497-9396

Laboratory Job ID: 240-134683-1 Client Project/Site: Ford LTP Off-Site

For:

ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Attn: Kristoffer Hinskey

Mode Del Your

Authorized for release by: 8/21/2020 10:49:55 AM

Michael DelMonico, Project Manager I (330)497-9396

Michael.DelMonico@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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

Laboratory Job ID: 240-134683-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-134683-1

Project/Site: Ford LTP Off-Site

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

Ū Indicates the analyte was analyzed for but not detected.

Χ Surrogate recovery exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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¤ Listed under the "D" column to designate that the result is reported on a dry weight basis

Percent Recovery %R 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)

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

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) Limit of Detection (DoD/DOE) LOD 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 QC **Quality Control**

Relative Error Ratio (Radiochemistry) **RER**

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

Case Narrative

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

Job ID: 240-134683-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP Off-Site

Report Number: 240-134683-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Eurofins TestAmerica, Canton attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

RECEIPT

The samples were received on 8/8/2020 10:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.3° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TRIP BLANK (240-134683-1) and MW-182S_080620 (240-134683-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/18/2020.

Dibromofluoromethane (Surr) failed the surrogate recovery criteria high for MB 240-447614/6. Refer to the QC report for details.

Method 8260B: The continuing calibration verification (CCV) associated with batch 447614 recovered above the upper control limit for Vinyl Chloride. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: TRIP BLANK (240-134683-1) and MW-182S_080620 (240-134683-2).

Method 8260B: Surrogate recovery for the method blank(s) was outside the upper control limit: (MB 240-447614/6). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260B: NO MS/MSD in batch 447614 due to MSD exceeding 12 hour tune time window.

Job ID: 240-134683-1

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Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-134683-1

Project/Site: Ford LTP Off-Site

Job ID: 240-134683-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

TRIP BLANK (240-134683-1) and MW-182S_080620 (240-134683-2)

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

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Sample MW-182S_080620 (240-134683-2) was analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The sample was analyzed on 08/14/2020.

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

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Method Summary

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

Job ID: 240-134683-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	Purge and Trap	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Sample Summary

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

Job ID: 240-134683-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-134683-1	TRIP BLANK	Water	08/06/20 00:00	08/08/20 10:00	
240-134683-2	MW-182S_080620	Water	08/06/20 15:10	08/08/20 10:00	

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Detection Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Off-Site

Job ID: 240-134683-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-134683-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-134683-1

Project/Site: Ford LTP Off-Site

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-134683-1 Date Collected: 08/06/20 00:00

Matrix: Water Date Received: 08/08/20 10:00

Method: 8260B - Volatile O Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/18/20 15:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/18/20 15:39	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/18/20 15:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/18/20 15:39	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/18/20 15:39	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/18/20 15:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 130					08/18/20 15:39	1
4-Bromofluorobenzene (Surr)	107		47 - 134					08/18/20 15:39	1
Toluene-d8 (Surr)	113		69 - 122					08/18/20 15:39	1
Dibromofluoromethane (Surr)	124		78 - 129					08/18/20 15:39	1

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-134683-1

Project/Site: Ford LTP Off-Site

Client Sample ID: MW-182S_080620 Lab Sample ID: 240-134683-2

Date Collected: 08/06/20 15:10

Matrix: Water Date Received: 08/08/20 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/14/20 19:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 133					08/14/20 19:32	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/18/20 16:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/18/20 16:02	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/18/20 16:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/18/20 16:02	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/18/20 16:02	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/18/20 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 130					08/18/20 16:02	1
4-Bromofluorobenzene (Surr)	94		47 - 134					08/18/20 16:02	1
Toluene-d8 (Surr)	97		69 - 122					08/18/20 16:02	1
Dibromofluoromethane (Surr)	112		78 - 129					08/18/20 16:02	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-134683-1

Project/Site: Ford LTP Off-Site

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

Matrix: Water Prep Type: Total/NA

240-134683-1 TRIP BLANK 105 107 113 124 240-134683-2 MW-182S_080620 97 94 97 112				Pe	ercent Surre	ogate Reco
240-134683-1 TRIP BLANK 105 107 113 124 240-134683-2 MW-182S_080620 97 94 97 112			DCA	BFB	TOL	DBFM
240-134683-2 MW-182S_080620 97 94 97 112	Lab Sample ID	Client Sample ID	(75-130)	(47-134)	(69-122)	(78-129)
	240-134683-1	TRIP BLANK	105	107	113	124
CS 240 447614/4 Lab Control Sample 04 07 09 119	240-134683-2	MW-182S_080620	97	94	97	112
203 240-4470 1474 Lab Control Sample 94 97 96 116	LCS 240-447614/4	Lab Control Sample	94	97	98	118
MB 240-447614/6 Method Blank 115 115 121 135 X	MB 240-447614/6	Method Blank	115	115	121	135 X

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(70-133)	
240-134654-A-2 MS	Matrix Spike	88	
240-134654-A-2 MSD	Matrix Spike Duplicate	83	
240-134683-2	MW-182S_080620	88	
LCS 240-447208/4	Lab Control Sample	87	
MB 240-447208/5	Method Blank	88	

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

Client: ARCADIS U.S., Inc. Job ID: 240-134683-1 Project/Site: Ford LTP Off-Site

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

Lab Sample ID: MB 240-447614/6

Matrix: Water

Analysis Batch: 447614

Client Sample 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	0.46	ug/L			08/18/20 12:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/18/20 12:39	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/18/20 12:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/18/20 12:39	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/18/20 12:39	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/18/20 12:39	1

MB MB			
%Recovery Qualific	er Limits	Prepared Analyzed	Dil Fac
115	75 - 130	08/18/20 12:39	9 1
115	47 - 134	08/18/20 12:39	9 1
121	69 - 122	08/18/20 12:39	9 1
135 X	78 - 129	08/18/20 12:39) 1
	%Recovery Qualific 115 115 121	%Recovery Qualifier Limits 115 75 - 130 115 47 - 134 121 69 - 122	%Recovery Qualifier Limits Prepared Analyzed 115 75 - 130 08/18/20 12:39 115 47 - 134 08/18/20 12:39 121 69 - 122 08/18/20 12:39

Lab Sample ID: LCS 240-447614/4

Matrix: Water

Analysis Batch: 447614

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	10.0	11.4		ug/L		114	73 - 129	
cis-1,2-Dichloroethene	10.0	11.5		ug/L		115	75 - 124	
Tetrachloroethene	10.0	10.9		ug/L		109	70 - 125	
trans-1,2-Dichloroethene	10.0	11.6		ug/L		116	74 - 130	
Trichloroethene	10.0	10.5		ug/L		105	71 - 121	
Vinyl chloride	10.0	12.2		ug/L		122	61 - 134	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		75 - 130
4-Bromofluorobenzene (Surr)	97		47 - 134
Toluene-d8 (Surr)	98		69 - 122
Dibromofluoromethane (Surr)	118		78 - 129

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

Lab Sample ID: MB 240-4472 Matrix: Water Analysis Batch: 447208	08/5					(Client Sam	ple ID: Method Prep Type: To	
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/14/20 12:26	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 133			_		08/14/20 12:26	1

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-134683-1

Project/Site: Ford LTP Off-Site

Lab Sample ID: LCS 240-447208/4

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

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

80 - 135

Prep Type: Total/NA

106

Matrix: Water Analysis Batch: 447208

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits

70 - 133

1,4-Dioxane 10.0 10.6 ug/L LCS LCS Surrogate %Recovery Qualifier Limits

87

Lab Sample ID: 240-134654-A-2 MS **Client Sample ID: Matrix Spike**

Matrix: Water Analysis Batch: 447208

1,2-Dichloroethane-d4 (Surr)

Sample Sample Spike MS MS %Rec. Analyte **Result Qualifier** Added Result Qualifier Unit D %Rec Limits

1,4-Dioxane 2.0 U 10.0 10.3 103 46 - 170 ug/L MS MS

Limits Surrogate %Recovery Qualifier 1,2-Dichloroethane-d4 (Surr) 88 70 - 133

Lab Sample ID: 240-134654-A-2 MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 447208

Sample Sample Spike MSD MSD %Rec. **RPD** Analyte Result Qualifier Added Limits RPD Limit Result Qualifier Unit D %Rec 1,4-Dioxane 2.0 U 10.0 10.1 ug/L 101 46 - 170

MSD MSD Surrogate %Recovery Qualifier Limits 70 - 133 1,2-Dichloroethane-d4 (Surr) 83

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 240-134683-1

Project/Site: Ford LTP Off-Site

GC/MS VOA

Analysis Batch: 447208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134683-2	MW-182S_080620	Total/NA	Water	8260B SIM	
MB 240-447208/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-447208/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-134654-A-2 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-134654-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 447614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134683-1	TRIP BLANK	Total/NA	Water	8260B	
240-134683-2	MW-182S_080620	Total/NA	Water	8260B	
MB 240-447614/6	Method Blank	Total/NA	Water	8260B	
LCS 240-447614/4	Lab Control Sample	Total/NA	Water	8260B	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-134683-1

Project/Site: Ford LTP Off-Site

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-134683-1

Date Collected: 08/06/20 00:00 Matrix: Water Date Received: 08/08/20 10:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	447614	08/18/20 15:39	LEE	TAL CAN

Date Collected: 08/06/20 15:10 Matrix: Water

Date Received: 08/08/20 10:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	 -		447614	08/18/20 16:02	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	447208	08/14/20 19:32	SAM	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-134683-1

Project/Site: Ford LTP Off-Site

Laboratory: Eurofins TestAmerica, Canton

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	02-23-21
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-20 *
lowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
Kentucky (WW)	State	KY98016	12-31-20
Minnesota	NELAP	OH00048	12-31-20
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-18-10	08-31-20
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-20
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

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

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Tries, Sainte 900 Trie	Titles Saint 200 Titles Project Name No. Titles Project Name Titles Pr	ompany Name: Arcadis			_	TestAmerica Laboratories, Inc.
Toppone Topp	14,4377	dennes 20000 Cales Daise Cate Con	Client Project Manager: Kris Hinskey	Site Contact: Julia McClafferty	Lab Contact: Mike DelMonico	COC No:
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From the friend relative company of the state of the stat	Total State of Companies and Companies of Co	ity/State/Zip: Novi, MI, 48377				
10 cts 1	10 cts. 10 c	oom: 248-094-2240	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	For lab use only
Marthe description Simple Identification Interval Simple Identification Simple Identification Simple Identification Interval Simple Identification Simple Identification Simple Identification Interval Simple Identification Simple Identification Interval Simple Identification Interval Simple Identification Simple Identification Interval Identi	1 day 1 da	oject Name: Ford LTP Off-Site	1	TAT it different them below 10 day 2 weeks		Walk-in client
Supplied Trackleg No.	Simple Identification Simp	oject Number: 30050315,402,04		☐ 1 week	80	Standards American
Sample Plate Sa	Marrier A Precentifies Canadaren A Precentifies A Marrier A Precentifies A Marrier A Precentifies A Marrier A Precentifies A Marrier A Precentifies Sample Special In Advances A Marrier A Precentifies A Marrier For Manufer For Months A Marrier For Months	0#30050315,402.04	Shipping/Tracking No:		8500B 500B 500B	Job/SDG No:
Sample Date Sample Time Kit Advisory Sumple Special in Protein and Subject Special in Protein State Special in Protein Special in Sample Disposal (Afermay be assessed if samples are retained longer than I month) Sample Disposal (Afermay be assessed if samples are retained longer than I month) Sample Disposal (Afermay be assessed if samples are retained longer than I month) Sample Disposal (Afermay be assessed if samples are retained longer than I month) Achive For Months	Tinknown Sample Special in Sample Special in Total Special Sp. Tab Active Ear Months Nample Disposal (A fee may be assessed if samples are retained longer than 1 month) Nample Disposal (A fee may be assessed if samples are retained longer than 1 month) Nample Disposal (A fee may be assessed if samples are retained longer than 1 month) Nample Disposal (A fee may be assessed if samples are retained longer than 1 month) Nample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Matrix		5.00E 8 5.00E 8 100E 8	
1		Sample Identification	Air Aquenus Sediment	Others Others NaoH Zeach Author HCI HAO3	Compose 7,1-DCE 7,1-DCE Trans-1, PCE 826 TOE 826	Sample Specific Notes / Special Instructions:
# 13 Upon S		TRIP BLANK	22	×	_	1 Trip blank
240-134683 Chain of Custody 240-134683 Chain of Custody Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Sample Disposal By Labo	240-134683 Chain of Custody Sample Disposal (A fee may be assessed if samples are retained longer than I month) Return to Client F Disposal By Lab Archive For Archive For Anchive For Anchive For Anchive For Anchive For Anchive For Entered For E	MW-1825_080620	8/6/201510 X	يد	_	5 3
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		Possible Hazard Identification Non-Hazard	Poison B	Sample Disposal (A fee may be asse	ssed if samples are retained longer than 1 month) seal By Lab Arbive For Months	
	ubmit all results through Cadena at Jtomalia@cadenaco.com. Cadena #E203631	pecial Instructions/QC Requirements & Comm	ments:			

	Company	Company
vel IV Reporting requested.	Striff 14 Socol	dinaffished by:

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Eurofins TestAmerica Canton Sample Receipt Form/Narrative Canton Facility	Login #: 34693
Client Av Cadis Site Name	Cooler unpacked by:
Cooler Received on 8-8-26 Opened on 8-8-26	1, ()
FedEx: 1 st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier	Adam Janey
Receipt After-hours: Drop-off Date/Time Storage Location	Other 7
	-
COOLANT: (Wet Ice) Blue Ice Dry Ice Water None	
1. Cooler temperature upon receipt ☐ See Multiple Cooler Fo	rm
IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp. °C Corrected Cooler IR GUN #IR-11 (CF +0.9 °C) Observed Cooler Temp. 3 4 °C Corrected Cooler	Temp°C
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? Did all bottles arrive in good condition (Unbroken)? Could all bottle labels be reconciled with the COC? Were correct bottle(s) used for the test(s) indicated? Sufficient quantity received to perform indicated analyses? Are these work share samples? If yes, Questions 12-16 have been checked at the originating laboratory. Were all preserved sample(s) at the correct pH upon receipt? Were VOAs on the COC? Were air bubbles >6 mm in any VOA vials? Larger than this. Yes Yes Larger than this.	No No NA No N
Contacted PM Date by via Verbal V	oice Mail Other
Concerning	
17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	Samples processed by:
18. SAMPLE CONDITION Sample(s) were received after the recommended hold	ing time had expired
	d in a broken container.
Sample(s) were received with bubble >6 mm	
19. SAMPLE PRESERVATION	
Sample(s) were fu	rther preserved in the laboratory.
m' 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
VOA Sample Preservation - Date/Time VOAs Frozen:	

DATA VERIFICATION REPORT



August 21, 2020

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: 30050315.0402.04 off site

Event Specific Scope of Work References: Sample COC

Laboratory: TestAmerica - North Canton

Laboratory submittal: 134683-1 Sample date: 2020-08-06

Report received by CADENA: 2020-08-21

Initial Data Verification completed by CADENA: 2020-08-21

Number of Samples: 1 Water and 1 trip blank

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 surrogate recoveries were outside of laboratory control limits biased HIGH for at least 1 surrogate. All associated results were non-detect so qualification was not required based on these high bias QC outliers: QC batch 447614 method blank and sample -001.

GCMS VOC CCV STANDARD response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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: TestAmerica - North Canton

Laboratory Submittal: 134683-1

	Sample Name: Lab Sample ID: Sample Date:		TRIP BLANK 2401346831 8/6/2020			MW-182S_080620 2401346832 8/6/2020				
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>60B</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>60BBSim</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 # 240-134683-1

CADENA Verification Report: 2020-08-21

Analyses Performed By:

TestAmerica

Edison, New Jersey

Report #38045R Review Level: Tier III Project: 30050315.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-134683-1 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) includes 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:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	VOC (Full Scan)	Analysis VOC (SIM)	MISC
	TRIP BLANK	240-134683-1	Water	8/6/2020		X		
240-134683-1	MW-182S_080620	240-134683-2	Water	8/6/2020		Х	Х	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

	Rep	orted	Performance Acceptable		Not	
Items Reviewed	No	Yes	No	Yes	Required	
Sample receipt condition		Х		Х		
2. Requested analyses and sample results		Х		X		
Master tracking list		Х		Х		
4. Methods of analysis		Х		Х		
5. Reporting limits		Х		Х		
6. Sample collection date		Х		Х		
7. Laboratory sample received date		Х		Х		
8. Sample preservation verification (as applicable)		Х		Х		
9. Sample preparation/extraction/analysis dates		Х		Х		
10. Fully executed Chain-of-Custody (COC) form		Х		Х		
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 8260B and 8260B SIM. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

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.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - 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 8260B/8260B-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 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 was not performed on a sample within 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: 8260B/8260B-SIM	Re	eported	Performance Acceptable		Not Required	
	No	Yes	No	Yes	Requirea	
GAS CHROMATOGRAPHY/MASS SPECTROMET	RY (GC/I	VIS)				
Tier II Validation						
Holding times/Preservation		X		X		
Tier III Validation			<u>'</u>			
System performance and column resolution		Х		X		
Initial calibration %RSDs		Х		X		
Continuing calibration RRFs		X		X		
Continuing calibration %Ds		Х		X		
Instrument tune and performance check		Х		Х		
Ion abundance criteria for each instrument used		X		X		
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		X		X		
E. Reporting limits adjusted to reflect sample dilutions		X		X		

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Joseph C. Houser

SIGNATURE:

DATE: August 27, 2020

Juph c. House

PEER REVIEW: Andrew Korycinski

DATE: August 27, 2020

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

Client Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 240-134683-1

Project/Site: Ford LTP Off-Site

Client Sample ID: TRIP BLANK

Date Collected: 08/06/20 00:00 Date Received: 08/08/20 10:00 Lab Sample ID: 240-134683-1

Matrix: Water

Method: 8260B - Volatile O Analyte	•	unds (GC/ Qualifier	IVIS) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0		1.0		ug/L	— <u> </u>		08/18/20 15:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/18/20 15:39	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/18/20 15:39	1
trans-1,2-Dichloroethene	1.0	Ü	1.0	0.43	ug/L			08/18/20 15:39	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/18/20 15:39	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/18/20 15:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 130			-		08/18/20 15:39	1
4-Bromofluorobenzene (Surr)	107		47 - 134					08/18/20 15:39	1
Toluene-d8 (Surr)	113		69 - 122					08/18/20 15:39	1
Dibromofluoromethane (Surr)	124		78 - 129					08/18/20 15:39	1

8/21/2020

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-134683-1

Project/Site: Ford LTP Off-Site

Client Sample ID: MW-182S_080620 Lab Sample ID: 240-134683-2

Date Collected: 08/06/20 15:10

Matrix: Water Date Received: 08/08/20 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/14/20 19:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 133					08/14/20 19:32	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/18/20 16:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/18/20 16:02	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/18/20 16:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/18/20 16:02	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/18/20 16:02	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/18/20 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 130					08/18/20 16:02	1
4-Bromofluorobenzene (Surr)	94		47 - 134					08/18/20 16:02	1
Toluene-d8 (Surr)	97		69 - 122					08/18/20 16:02	1
Dibromofluoromethane (Surr)	112		78 - 129					08/18/20 16:02	1

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Tries State Stat	Titles Sing	ompany Name: Arcadis			_	TestAmerica Laboratories, Inc.
Telephone: 246-994-2340	Telephone: 345-94-3340	dennes 20000 Cales Daise Cate Con	Client Project Manager: Kris Hinskey	Site Contact: Julia McClafferty	Lab Contact: Mike DelMonico	COC No:
11,4877	1.4877	DOLESS: 20220 CADOL DIIVE, SHIE 2000	Telephone: 248-994-2240	Telephone: 734-644-5131	Telephone: 330-497-9396	
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Sumpler Name: Character C	10 cts. 10 c	oom: 248-094-2240	Email: kristoffer.hinskey@arcadis.com	Analysis Lurnaround Lime	Analyses	For lab use only
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		Sample Identification	Aqueous Sediment biloZ	Others Others NaoH Zeach Author HCI HAO3	Compose 7,1-DCE 7,1-DCE Trans-1, PCE 826 TOE 826	Sample Specific Notes / Special Instructions:
# 1 3 UGGS PAT Was	240-134683 Chain of Custody Sample Disposal (A fee may be assessed if samples are retained longer than I month) Action of Disposal By Lab Archive For Months	TRIP BLANK	22	× ×	_	1 Trip blank
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Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo	Sample Disposal (A fee may be assessed if samples are retained longer than 1 mo					
		Possible Hazard Identification Non-Hazard	Poison B	Sample Disposal (A fee may be asse	ssed if samples are retained longer than 1 month) ssal by Lab Archive For Months	
	ubmit all results through Cadena at Itomalia@cadenaco.com. Cadena #E203631	occial Instructions/QC Requirements & Comm	ments:			

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