

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

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

TestAmerica Job ID: 240-106467-3 Client Project/Site: Ford LTP Livonia MI - E203631

For:

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

Attn: Kristoffer Hinskey

Mole Del your

Authorized for release by: 1/18/2019 2:37:01 PM Michael DelMonico, Project Manager I (330)497-9396 michael.delmonico@testamericainc.com

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.

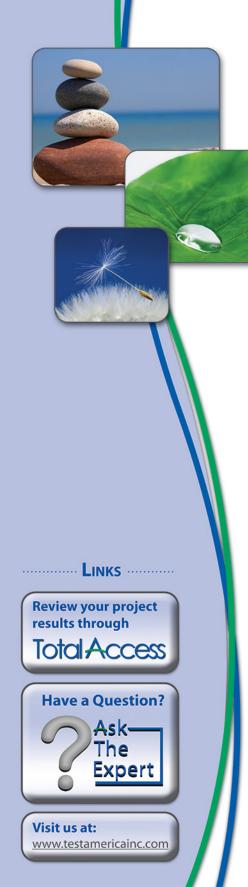


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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Quanner		
U	Indicates the analyte was analyzed for but not detected.	5
Glossary		6
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	8
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	9
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	10
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)	11
EDL	Estimated Detection Limit (Dioxin)	_
LOD	Limit of Detection (DoD/DOE)	12
LOQ	Limit of Quantitation (DoD/DOE)	
MDA	Minimum Detectable Activity (Radiochemistry)	13
MDC	Minimum Detectable Concentration (Radiochemistry)	13
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
PQL	Practical Quantitation Limit	
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)

Job ID: 240-106467-3

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP Livonia MI - E203631

Report Number: 240-106467-3

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.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. 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 TestAmerica and its client.

RECEIPT

The samples were received on 1/3/2019 8:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.2° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples MW-128S_122718 (240-106467-2) and DUP-03_122718 (240-106467-3) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 01/08/2019.

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

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Samples MW-128S_122718 (240-106467-2) and DUP-03_122718 (240-106467-3) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 01/08/2019.

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

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

Sample Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP Livonia MI - E203631 TestAmerica Job ID: 240-106467-3

Lab Sample ID	Client Sample ID	Matrix	Collected Received
240-106467-2	MW-128S_122718	Water	12/27/18 09:55 01/03/19 08
240-106467-3	DUP-03_122718	Water	12/27/18 00:00 01/03/19 08

Detection Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP Livonia MI - E203631 TestAmerica Job ID: 240-106467-3

Lab Sample ID: 240-106467-2 5 Lab Sample ID: 240-106467-3 6 7

No Detections.

No Detections.

Client Sample ID: DUP-03_122718

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-128S_122718

Date Collected: 12/27/18 09:55 Date Received: 01/03/19 08:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			01/08/19 19:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		63 - 125			-		01/08/19 19:19	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	0.19	ug/L			01/08/19 15:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			01/08/19 15:49	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			01/08/19 15:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			01/08/19 15:49	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			01/08/19 15:49	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			01/08/19 15:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		70 - 121			-		01/08/19 15:49	1
4-Bromofluorobenzene (Surr)	73		59 - 120					01/08/19 15:49	1
Toluene-d8 (Surr)	75		70 - 123					01/08/19 15:49	1
Dibromofluoromethane (Surr)	113		75 - 128					01/08/19 15:49	1

Lab Sample ID: 240-106467-2 Matrix: Water

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TestAmerica Job ID: 240-106467-3

Client Sample ID: DUP-03_122718 Date Collected: 12/27/18 00:00

Date Received: 01/03/19 08:35

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			01/08/19 19:45	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	91		63 - 125			-		01/08/19 19:45	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	0.19	ug/L			01/08/19 16:11	1	
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			01/08/19 16:11	1	
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			01/08/19 16:11	1	ī
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			01/08/19 16:11	1	
Trichloroethene	1.0	U	1.0	0.10	ug/L			01/08/19 16:11	1	
Vinyl chloride	1.0	U	1.0	0.20	ug/L			01/08/19 16:11	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	116		70 - 121			-		01/08/19 16:11	1	
4-Bromofluorobenzene (Surr)	75		59 - 120					01/08/19 16:11	1	
Toluene-d8 (Surr)	79		70 - 123					01/08/19 16:11	1	
Dibromofluoromethane (Surr)	118		75 - 128					01/08/19 16:11	1	

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

Matrix: Water Prep Type: Total/NA Lab Sample ID Client Sample ID DCA BFB TOL DBFM 240-106467-2 MW-1285_122718 113 73 75 113 240-106467-3 DUP-03_122718 116 75 79 118 Surrogate Legend DCA = 1,2-Dichloroethane-d4 (Surr) BFB = 4-Bromofluorobenzene (Surr) TOL = Toluene-d8 (Surr) DBFM = Dibromofluoromethane (Surr) DBFM = Dibromofluoromethane (Surr) DBFM = Dibromofluoromethane (Surr) Prep Type: Total/NA						
			Pe	ercent Surro	ogate Recovery (A	cceptance Limits)
		DCA	BFB	TOL	DBFM	
.ab Sample ID	Client Sample ID	(70-121)	(59-120)	(70-123)	(75-128)	
240-106467-2	MW-128S_122718	113	73	75	113	
240-106467-3	DUP-03_122718	116	75	79	118	
Surrogate Legend	l					
DCA = 1,2-Dichloro	pethane-d4 (Surr)					
BFB = 4-Bromofluc	probenzene (Surr)					
TOL = Toluene-d8	(Surr)					
DBFM = Dibromof	uoromethane (Surr)					
lethod: 8260B	SIM - Volatile Organic	c Compoun	ds (GC/	MS)		
	SIM - Volatile Organio	c Compoun	ds (GC/	MS)		Prep Type: Total/NA
	SIM - Volatile Organio	c Compoun			ogate Recovery (A	· · ·
	SIM - Volatile Organio				ogate Recovery (A	· · ·
latrix: Water					ogate Recovery (A	· · ·
latrix: Water Lab Sample ID	SIM - Volatile Organio	DCA			ogate Recovery (A	· · ·
	Client Sample ID	DCA (63-125)			ogate Recovery (A	
Lab Sample ID 240-106467-2	Client Sample ID MW-128S_122718 DUP-03_122718	DCA (63-125) 86			ogate Recovery (A	· · ·

GC/MS VOA

Analysis Batch: 363151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-106467-2	MW-128S_122718	Total/NA	Water	8260B	
240-106467-3	DUP-03_122718	Total/NA	Water	8260B	
nalysis Batch: 36	63200				

Lab Sample ID **Client Sample ID** Method Prep Batch Prep Type Matrix 240-106467-2 MW-128S_122718 Total/NA Water 8260B SIM 240-106467-3 DUP-03_122718 8260B SIM Total/NA Water

Lab Sample ID: 240-106467-2 Matrix: Water 5 Lab Sample ID: 240-106467-3

Client Sample ID: MW-128S 122718 Date Collected: 12/27/18 09:55 Date Received: 01/03/19 08:35

		0.00						
_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	363151	01/08/19 15:49	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	363200	01/08/19 19:19	SAM	TAL CAN

Client Sample ID: DUP-03_122718 Date Collected: 12/27/18 00:00 Date Received: 01/03/19 08:35

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	363151	01/08/19 16:11	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	363200	01/08/19 19:45	SAM	TAL CAN

Laboratory References:

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

TestAmerica Job ID: 240-106467-3

Laboratory: TestAmerica Canton

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

Authority	Program	EPA Region	Identification Number	Expiration Date	
California	State Program	9	2927	02-23-19 *	
Connecticut	State Program	1	PH-0590	12-31-19	
Florida	NELAP	4	E87225	06-30-19	
Illinois	NELAP	5	200004	07-31-19	
Kansas	NELAP	7	E-10336	04-30-19	
Kentucky (UST)	State Program	4	58	02-23-19 *	
Kentucky (WW)	State Program	4	98016	12-31-19	
Minnesota	NELAP	5	039-999-348	12-31-19 *	
Minnesota (Petrofund)	State Program	1	3506	07-31-19	
Nevada	State Program	9	OH00048	07-31-19	
New Jersey	NELAP	2	OH001	06-30-19	
New York	NELAP	2	10975	03-31-19 *	
Ohio VAP	State Program	5	CL0024	09-06-19	
Oregon	NELAP	10	4062	02-23-19 *	
Pennsylvania	NELAP	3	68-00340	08-31-19 *	
Texas	NELAP	6	T104704517-18-10	08-31-19	
USDA	Federal		P330-16-00404	12-28-19	1
Virginia	NELAP	3	460175	09-14-19	
Washington	State Program	10	C971	01-12-20 *	
West Virginia DEP	State Program	3	210	12-31-19	

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

TestAmerica Canton 4101 Shuffel Street NW North Canton, OH 44720 Phone (330) 497-9396 Fax (330) 497-0772 Phone (330) 497-9396 Fax (330) 497-0772	IGAN 00	hain o	f Cust	of Custody Record	scord			TestAmerico	
Client Information	Sampler. Christing	=	POLINEC	Lab Ph DelMe	Lab PM: DelMonico, Michael	ael	Carrier Tracking No(s):	COC No: 240-56713-24439.2	
Citeri Contact: Angela DeGrandis	Phone:			E-Mail: micha	el.delmonic	E-Mail: michael.delmonico@testamericainc.com		Page \$ of 1\$	
Company. ARCADIS U.S., Inc.						Analysis Requested	uested	Lob #;	-
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Email: angela.degrandis@arcadis-us.com	wo#: Cadena #: E203631	3631			_	92 92	36	I - Ice J - DI Water	
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		X	Preservation Code		X			T special instructions/Note:	T
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MW- 1285-122718	-	0955	9	Water	NN	XXXXX	4XX		
-03-		1	0	Water	NN	XXXXX	4XX		
MW-805R-122718	81/12/21	1500	0	Water	NN	XXXXX	XXA		
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TestAmerica Canton Sample Receipt Form/Narrative Logi Canton Facility	in#:
Client Arcours Site Name Opened on 319 Opened on 319	Cooter unpacked by:
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Receipt After-hours: Drop-off Date/Time Storage Courier	Other
 Packing material used: Bubble Wrap Foam Plastic Bag None Other COOLANT: Wet Ice Blue Ice Dry Ice Water None 1. Cooler temperature upon receipt IR GUN# IR-8 (CF -0.2 °C) Observed Cooler Temp. °C Corrected Cooler Tem IR GUN #36 (CF +0°C) Observed Cooler Temp. °C Corrected Cooler Tem 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	emp°C
16. Was a LL Hg or Me Hg trip blank present? Ye Contacted PM Date by	voice Mail Other
Concerning	
17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	Samples processed by:
18. SAMPLE CONDITION Sample(s) were received after the recommended hold	ding time had expired.
Sample(s) were received with bubble >6 mm	d in a broken container. in diameter. (Notify PM)
19. SAMPLE PRESERVATION	
Sample(s) were fit Time preserved: Preservative(s) added/Lot number(s):	arther preserved in the laboratory.
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WI-NC-099

Cooler #	Cooler Receipt Form	Observed Temp °C	Corrected Temp °C	Coolant
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January 18, 2019

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: MI001454.0002/3/4.00002/2B/3B Client project scope reference: Sample COC only was used to define project analytical requirements. Laboratory: TestAmerica - North Canton Laboratory submittal: 106467-3 Sample date: 2018-12-27 Report received by CADENA: 2019-01-18 Initial Data Verification completed by CADENA: 2019-01-18

There were no significant QC anomalies or exceptions to report.

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.

2 Water sample(s) were analyzed for GCMS VOC parameter(s).

Sample/MS/MSD Surrogate Recovery and Hold Time Exception were reviewed as part of our verification.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at <u>http://clms.cadenaco.com/index.cfm</u>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

Valid Qualifiers	Description				
<	Less than the reported concentration.				
>	Greater than the reported concentration.				
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than $5x$ (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.				
E	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.				

SAMPLING AND ANALYSIS SUMMARY

CADENA Project ID: E203631 Laboratory: TestAmerica-North Canton Laboratory Submittal: 106467-3

		Collection Date	Collection Time	Volatile Organics	8260B with Single	
Lab Sample ID	Sample ID	(mm/yy/dd)	(hh:mm:ss)	by GCMS	Ion Monitoring	Comment
2401064672	MW-128S_122718	12/27/2018	9:55:00	х	х	
2401064673	DUP-03_122718	12/27/2018	12:00:00	х	х	