

ANALYTICAL REPORT

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

Laboratory Job ID: 240-130578-1
Client Project/Site: Ford LTP Off-Site

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

Attn: Kristoffer Hinskey



Authorized for release by:
6/2/2020 11:50:11 AM

Michael DelMonico, Project Manager I
(330)497-9396
michael.delmonico@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Method Summary	5
Sample Summary	6
Detection Summary	7
Client Sample Results	8
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	20
Lab Chronicle	21
Certification Summary	22
Chain of Custody	23



Definitions/Glossary

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

Job ID: 240-130578-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
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)

Case Narrative

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

Job ID: 240-130578-1

Job ID: 240-130578-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP Off-Site

Report Number: 240-130578-1

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 5/21/2020 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TRIP BLANK (240-130578-1), MW-192S_051920 (240-130578-2), MW-106S_051920 (240-130578-3), MW-84_051920 (240-130578-4) and MW-84S_051920 (240-130578-5) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 05/30/2020 and 05/31/2020.

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-192S_051920 (240-130578-2), MW-106S_051920 (240-130578-3), MW-84_051920 (240-130578-4) and MW-84S_051920 (240-130578-5) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 05/27/2020, 05/28/2020 and 05/29/2020.

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

Method Summary

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

Job ID: 240-130578-1

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



Sample Summary

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

Job ID: 240-130578-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-130578-1	TRIP BLANK	Water	05/19/20 00:00	05/21/20 09:20	
240-130578-2	MW-192S_051920	Water	05/19/20 10:20	05/21/20 09:20	
240-130578-3	MW-106S_051920	Water	05/19/20 12:00	05/21/20 09:20	
240-130578-4	MW-84_051920	Water	05/19/20 14:07	05/21/20 09:20	
240-130578-5	MW-84S_051920	Water	05/19/20 15:27	05/21/20 09:20	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

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

Job ID: 240-130578-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-130578-1

No Detections.

Client Sample ID: MW-192S_051920

Lab Sample ID: 240-130578-2

No Detections.

Client Sample ID: MW-106S_051920

Lab Sample ID: 240-130578-3

No Detections.

Client Sample ID: MW-84_051920

Lab Sample ID: 240-130578-4

No Detections.

Client Sample ID: MW-84S_051920

Lab Sample ID: 240-130578-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton



Client Sample Results

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

Job ID: 240-130578-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-130578-1

Date Collected: 05/19/20 00:00

Matrix: Water

Date Received: 05/21/20 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/31/20 08:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/31/20 08:00	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/31/20 08:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/31/20 08:00	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/31/20 08:00	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/31/20 08:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 130		05/31/20 08:00	1
4-Bromofluorobenzene (Surr)	84		47 - 134		05/31/20 08:00	1
Toluene-d8 (Surr)	89		69 - 122		05/31/20 08:00	1
Dibromofluoromethane (Surr)	87		78 - 129		05/31/20 08:00	1

Client Sample Results

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

Job ID: 240-130578-1

Client Sample ID: MW-192S_051920

Lab Sample ID: 240-130578-2

Date Collected: 05/19/20 10:20

Matrix: Water

Date Received: 05/21/20 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/27/20 14:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 133		05/27/20 14:06	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/31/20 08:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/31/20 08:24	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/31/20 08:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/31/20 08:24	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/31/20 08:24	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/31/20 08:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		75 - 130		05/31/20 08:24	1
4-Bromofluorobenzene (Surr)	84		47 - 134		05/31/20 08:24	1
Toluene-d8 (Surr)	88		69 - 122		05/31/20 08:24	1
Dibromofluoromethane (Surr)	91		78 - 129		05/31/20 08:24	1

Client Sample Results

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

Job ID: 240-130578-1

Client Sample ID: MW-106S_051920

Lab Sample ID: 240-130578-3

Date Collected: 05/19/20 12:00

Matrix: Water

Date Received: 05/21/20 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L	-		05/29/20 07:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 133					05/29/20 07:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L	-		05/31/20 08:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L	-		05/31/20 08:48	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L	-		05/31/20 08:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L	-		05/31/20 08:48	1
Trichloroethene	1.0	U	1.0	0.10	ug/L	-		05/31/20 08:48	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L	-		05/31/20 08:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 130					05/31/20 08:48	1
4-Bromofluorobenzene (Surr)	85		47 - 134					05/31/20 08:48	1
Toluene-d8 (Surr)	90		69 - 122					05/31/20 08:48	1
Dibromofluoromethane (Surr)	90		78 - 129					05/31/20 08:48	1

Client Sample Results

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

Job ID: 240-130578-1

Client Sample ID: MW-84_051920

Lab Sample ID: 240-130578-4

Date Collected: 05/19/20 14:07

Matrix: Water

Date Received: 05/21/20 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L	-		05/29/20 08:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 133		05/29/20 08:47	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L	-		05/30/20 23:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L	-		05/30/20 23:41	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L	-		05/30/20 23:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L	-		05/30/20 23:41	1
Trichloroethene	1.0	U	1.0	0.10	ug/L	-		05/30/20 23:41	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L	-		05/30/20 23:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 130		05/30/20 23:41	1
4-Bromofluorobenzene (Surr)	85		47 - 134		05/30/20 23:41	1
Toluene-d8 (Surr)	90		69 - 122		05/30/20 23:41	1
Dibromofluoromethane (Surr)	88		78 - 129		05/30/20 23:41	1

Client Sample Results

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

Job ID: 240-130578-1

Client Sample ID: MW-84S_051920

Lab Sample ID: 240-130578-5

Date Collected: 05/19/20 15:27

Matrix: Water

Date Received: 05/21/20 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L	-		05/28/20 10:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 133					05/28/20 10:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L	-		05/31/20 09:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L	-		05/31/20 09:59	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L	-		05/31/20 09:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L	-		05/31/20 09:59	1
Trichloroethene	1.0	U	1.0	0.10	ug/L	-		05/31/20 09:59	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L	-		05/31/20 09:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 130					05/31/20 09:59	1
4-Bromofluorobenzene (Surr)	83		47 - 134					05/31/20 09:59	1
Toluene-d8 (Surr)	91		69 - 122					05/31/20 09:59	1
Dibromofluoromethane (Surr)	87		78 - 129					05/31/20 09:59	1

Surrogate Summary

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

Job ID: 240-130578-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-130)	BFB (47-134)	TOL (69-122)	DBFM (78-129)
240-130578-1	TRIP BLANK	92	84	89	87
240-130578-2	MW-192S_051920	94	84	88	91
240-130578-3	MW-106S_051920	96	85	90	90
240-130578-3 MS	MW-106S_MS_051920	90	90	91	89
240-130578-3 MSD	MW-106S_MSD_051920	95	90	92	89
240-130578-4	MW-84_051920	92	85	90	88
240-130578-4 MS	MW-84_MS_051920	89	89	91	88
240-130578-4 MSD	MW-84_MSD_051920	89	91	92	91
240-130578-5	MW-84S_051920	92	83	91	87
LCS 240-436259/4	Lab Control Sample	89	92	91	89
LCS 240-436260/4	Lab Control Sample	88	91	91	91
MB 240-436259/7	Method Blank	93	87	91	88
MB 240-436260/7	Method Blank	91	83	91	88

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)

Lab Sample ID	Client Sample ID	DCA
		(70-133)
240-130578-2	MW-192S_051920	91
240-130578-3	MW-106S_051920	90
240-130578-3 MS	MW-106S_MS_051920	97
240-130578-3 MSD	MW-106S_MSD_051920	92
240-130578-4	MW-84_051920	94
240-130578-4 MS	MW-84_MS_051920	100
240-130578-4 MSD	MW-84_MSD_051920	98
240-130578-5	MW-84S_051920	100
240-130579-B-5 MS	Matrix Spike	92
240-130579-B-5 MSD	Matrix Spike Duplicate	98
240-130780-B-4 MS	Matrix Spike	99
240-130780-B-4 MSD	Matrix Spike Duplicate	97
LCS 240-435722/4	Lab Control Sample	97
LCS 240-435925/4	Lab Control Sample	92
LCS 240-436098/4	Lab Control Sample	96
MB 240-435722/5	Method Blank	95
MB 240-435925/5	Method Blank	95
MB 240-436098/5	Method Blank	94

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-130578-1

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

Lab Sample ID: MB 240-436259/7
Matrix: Water
Analysis Batch: 436259

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/30/20 15:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/30/20 15:45	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/30/20 15:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/30/20 15:45	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/30/20 15:45	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/30/20 15:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		75 - 130		05/30/20 15:45	1
4-Bromofluorobenzene (Surr)	87		47 - 134		05/30/20 15:45	1
Toluene-d8 (Surr)	91		69 - 122		05/30/20 15:45	1
Dibromofluoromethane (Surr)	88		78 - 129		05/30/20 15:45	1

Lab Sample ID: LCS 240-436259/4
Matrix: Water
Analysis Batch: 436259

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	9.75		ug/L		98	73 - 129
cis-1,2-Dichloroethene	10.0	9.74		ug/L		97	75 - 124
Tetrachloroethene	10.0	10.1		ug/L		101	70 - 125
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	74 - 130
Trichloroethene	10.0	9.60		ug/L		96	71 - 121
Vinyl chloride	10.0	8.38		ug/L		84	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		75 - 130
4-Bromofluorobenzene (Surr)	92		47 - 134
Toluene-d8 (Surr)	91		69 - 122
Dibromofluoromethane (Surr)	89		78 - 129

Lab Sample ID: 240-130578-4 MS
Matrix: Water
Analysis Batch: 436259

Client Sample ID: MW-84_MS_051920
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	1.0	U	10.0	9.55		ug/L		95	64 - 132
cis-1,2-Dichloroethene	1.0	U	10.0	9.95		ug/L		99	68 - 121
Tetrachloroethene	1.0	U	10.0	9.55		ug/L		96	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	9.88		ug/L		99	69 - 126
Trichloroethene	1.0	U	10.0	9.38		ug/L		94	56 - 124
Vinyl chloride	1.0	U	10.0	8.13		ug/L		81	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		75 - 130
4-Bromofluorobenzene (Surr)	89		47 - 134
Toluene-d8 (Surr)	91		69 - 122

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-130578-1

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

Lab Sample ID: 240-130578-4 MS
Matrix: Water
Analysis Batch: 436259

Client Sample ID: MW-84_MS_051920
Prep Type: Total/NA

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
<i>Dibromofluoromethane (Surr)</i>	88		78 - 129

Lab Sample ID: 240-130578-4 MSD
Matrix: Water
Analysis Batch: 436259

Client Sample ID: MW-84_MSD_051920
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	1.0	U	10.0	9.01		ug/L		90	64 - 132	6	35
cis-1,2-Dichloroethene	1.0	U	10.0	8.91		ug/L		89	68 - 121	11	35
Tetrachloroethene	1.0	U	10.0	8.82		ug/L		88	52 - 129	8	35
trans-1,2-Dichloroethene	1.0	U	10.0	9.24		ug/L		92	69 - 126	7	35
Trichloroethene	1.0	U	10.0	8.55		ug/L		86	56 - 124	9	35
Vinyl chloride	1.0	U	10.0	8.14		ug/L		81	49 - 136	0	35

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	89		75 - 130
<i>4-Bromofluorobenzene (Surr)</i>	91		47 - 134
<i>Toluene-d8 (Surr)</i>	92		69 - 122
<i>Dibromofluoromethane (Surr)</i>	91		78 - 129

Lab Sample ID: MB 240-436260/7
Matrix: Water
Analysis Batch: 436260

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/31/20 03:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/31/20 03:39	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/31/20 03:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/31/20 03:39	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/31/20 03:39	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/31/20 03:39	1

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	91		75 - 130		05/31/20 03:39	1
<i>4-Bromofluorobenzene (Surr)</i>	83		47 - 134		05/31/20 03:39	1
<i>Toluene-d8 (Surr)</i>	91		69 - 122		05/31/20 03:39	1
<i>Dibromofluoromethane (Surr)</i>	88		78 - 129		05/31/20 03:39	1

Lab Sample ID: LCS 240-436260/4
Matrix: Water
Analysis Batch: 436260

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	9.47		ug/L		95	73 - 129
cis-1,2-Dichloroethene	10.0	9.70		ug/L		97	75 - 124
Tetrachloroethene	10.0	9.57		ug/L		96	70 - 125
trans-1,2-Dichloroethene	10.0	9.70		ug/L		97	74 - 130
Trichloroethene	10.0	9.35		ug/L		94	71 - 121

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-130578-1

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

Lab Sample ID: LCS 240-436260/4

Matrix: Water

Analysis Batch: 436260

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	10.0	8.01		ug/L		80	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		75 - 130
4-Bromofluorobenzene (Surr)	91		47 - 134
Toluene-d8 (Surr)	91		69 - 122
Dibromofluoromethane (Surr)	91		78 - 129

Lab Sample ID: 240-130578-3 MS

Matrix: Water

Analysis Batch: 436260

Client Sample ID: MW-106S_MS_051920

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	1.0	U	10.0	8.18		ug/L		82	64 - 132
cis-1,2-Dichloroethene	1.0	U	10.0	8.67		ug/L		87	68 - 121
Tetrachloroethene	1.0	U	10.0	7.85		ug/L		78	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	8.58		ug/L		86	69 - 126
Trichloroethene	1.0	U	10.0	7.99		ug/L		80	56 - 124
Vinyl chloride	1.0	U	10.0	7.73		ug/L		77	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		75 - 130
4-Bromofluorobenzene (Surr)	90		47 - 134
Toluene-d8 (Surr)	91		69 - 122
Dibromofluoromethane (Surr)	89		78 - 129

Lab Sample ID: 240-130578-3 MSD

Matrix: Water

Analysis Batch: 436260

Client Sample ID: MW-106S_MSD_051920

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	1.0	U	10.0	8.37		ug/L		84	64 - 132	2	35
cis-1,2-Dichloroethene	1.0	U	10.0	8.88		ug/L		89	68 - 121	2	35
Tetrachloroethene	1.0	U	10.0	7.90		ug/L		79	52 - 129	1	35
trans-1,2-Dichloroethene	1.0	U	10.0	8.82		ug/L		88	69 - 126	3	35
Trichloroethene	1.0	U	10.0	7.97		ug/L		80	56 - 124	0	35
Vinyl chloride	1.0	U	10.0	7.62		ug/L		76	49 - 136	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		75 - 130
4-Bromofluorobenzene (Surr)	90		47 - 134
Toluene-d8 (Surr)	92		69 - 122
Dibromofluoromethane (Surr)	89		78 - 129

QC Sample Results

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

Job ID: 240-130578-1

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

Lab Sample ID: MB 240-435722/5
Matrix: Water
Analysis Batch: 435722

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/27/20 04:14	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 133					05/27/20 04:14	1

Lab Sample ID: LCS 240-435722/4
Matrix: Water
Analysis Batch: 435722

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	10.0	9.50		ug/L		95	80 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	97		70 - 133				

Lab Sample ID: 240-130780-B-4 MS
Matrix: Water
Analysis Batch: 435722

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.0		10.0	10.9		ug/L		90	46 - 170
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	99		70 - 133						

Lab Sample ID: 240-130780-B-4 MSD
Matrix: Water
Analysis Batch: 435722

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	2.0		10.0	10.0		ug/L		81	46 - 170	9	26
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	97		70 - 133								

Lab Sample ID: MB 240-435925/5
Matrix: Water
Analysis Batch: 435925

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/28/20 06:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 133					05/28/20 06:45	1

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-130578-1

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

Lab Sample ID: LCS 240-435925/4
Matrix: Water
Analysis Batch: 435925

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	10.0	8.55		ug/L		86	80 - 135
Surrogate	%Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	92		70 - 133				

Lab Sample ID: 240-130579-B-5 MS
Matrix: Water
Analysis Batch: 435925

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.0	U	10.0	10.2		ug/L		102	46 - 170
Surrogate	%Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	92		70 - 133						

Lab Sample ID: 240-130579-B-5 MSD
Matrix: Water
Analysis Batch: 435925

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	9.63		ug/L		96	46 - 170	6	26
Surrogate	%Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	98		70 - 133								

Lab Sample ID: MB 240-436098/5
Matrix: Water
Analysis Batch: 436098

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/29/20 06:29	1	
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1,2-Dichloroethane-d4 (Surr)	94		70 - 133		05/29/20 06:29	1				

Lab Sample ID: LCS 240-436098/4
Matrix: Water
Analysis Batch: 436098

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	10.0	8.98		ug/L		90	80 - 135
Surrogate	%Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	96		70 - 133				

QC Sample Results

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

Job ID: 240-130578-1

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

Lab Sample ID: 240-130578-3 MS
Matrix: Water
Analysis Batch: 436098

Client Sample ID: MW-106S_MS_051920
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
1,4-Dioxane	2.0	U	10.0	10.3		ug/L		103	46 - 170	
Surrogate	%Recovery	MS Qualifier	MS Limits							
1,2-Dichloroethane-d4 (Surr)	97		70 - 133							

Lab Sample ID: 240-130578-3 MSD
Matrix: Water
Analysis Batch: 436098

Client Sample ID: MW-106S_MSD_051920
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	12.2		ug/L		122	46 - 170	17	26
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
1,2-Dichloroethane-d4 (Surr)	92		70 - 133								

Lab Sample ID: 240-130578-4 MS
Matrix: Water
Analysis Batch: 436098

Client Sample ID: MW-84_MS_051920
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.0	U	10.0	8.83		ug/L		88	46 - 170
Surrogate	%Recovery	MS Qualifier	MS Limits						
1,2-Dichloroethane-d4 (Surr)	100		70 - 133						

Lab Sample ID: 240-130578-4 MSD
Matrix: Water
Analysis Batch: 436098

Client Sample ID: MW-84_MSD_051920
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	8.94		ug/L		89	46 - 170	1	26
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
1,2-Dichloroethane-d4 (Surr)	98		70 - 133								

QC Association Summary

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

Job ID: 240-130578-1

GC/MS VOA

Analysis Batch: 435722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-130578-2	MW-192S_051920	Total/NA	Water	8260B SIM	
MB 240-435722/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-435722/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-130780-B-4 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-130780-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 435925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-130578-5	MW-84S_051920	Total/NA	Water	8260B SIM	
MB 240-435925/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-435925/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-130579-B-5 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-130579-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 436098

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-130578-3	MW-106S_051920	Total/NA	Water	8260B SIM	
240-130578-4	MW-84_051920	Total/NA	Water	8260B SIM	
MB 240-436098/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-436098/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-130578-3 MS	MW-106S_MS_051920	Total/NA	Water	8260B SIM	
240-130578-3 MSD	MW-106S_MSD_051920	Total/NA	Water	8260B SIM	
240-130578-4 MS	MW-84_MS_051920	Total/NA	Water	8260B SIM	
240-130578-4 MSD	MW-84_MSD_051920	Total/NA	Water	8260B SIM	

Analysis Batch: 436259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-130578-4	MW-84_051920	Total/NA	Water	8260B	
MB 240-436259/7	Method Blank	Total/NA	Water	8260B	
LCS 240-436259/4	Lab Control Sample	Total/NA	Water	8260B	
240-130578-4 MS	MW-84_MS_051920	Total/NA	Water	8260B	
240-130578-4 MSD	MW-84_MSD_051920	Total/NA	Water	8260B	

Analysis Batch: 436260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-130578-1	TRIP BLANK	Total/NA	Water	8260B	
240-130578-2	MW-192S_051920	Total/NA	Water	8260B	
240-130578-3	MW-106S_051920	Total/NA	Water	8260B	
240-130578-5	MW-84S_051920	Total/NA	Water	8260B	
MB 240-436260/7	Method Blank	Total/NA	Water	8260B	
LCS 240-436260/4	Lab Control Sample	Total/NA	Water	8260B	
240-130578-3 MS	MW-106S_MS_051920	Total/NA	Water	8260B	
240-130578-3 MSD	MW-106S_MSD_051920	Total/NA	Water	8260B	

Lab Chronicle

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

Job ID: 240-130578-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-130578-1

Date Collected: 05/19/20 00:00

Matrix: Water

Date Received: 05/21/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436260	05/31/20 08:00	LRW	TAL CAN

Client Sample ID: MW-192S_051920

Lab Sample ID: 240-130578-2

Date Collected: 05/19/20 10:20

Matrix: Water

Date Received: 05/21/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436260	05/31/20 08:24	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	435722	05/27/20 14:06	SAM	TAL CAN

Client Sample ID: MW-106S_051920

Lab Sample ID: 240-130578-3

Date Collected: 05/19/20 12:00

Matrix: Water

Date Received: 05/21/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436260	05/31/20 08:48	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	436098	05/29/20 07:28	TJL2	TAL CAN

Client Sample ID: MW-84_051920

Lab Sample ID: 240-130578-4

Date Collected: 05/19/20 14:07

Matrix: Water

Date Received: 05/21/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436259	05/30/20 23:41	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	436098	05/29/20 08:47	TJL2	TAL CAN

Client Sample ID: MW-84S_051920

Lab Sample ID: 240-130578-5

Date Collected: 05/19/20 15:27

Matrix: Water

Date Received: 05/21/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436260	05/31/20 09:59	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	435925	05/28/20 10:15	TJL2	TAL CAN

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 240-130578-1

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	06-30-20
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-20
Iowa	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	06-30-20
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

35142

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

Client Contact		Regulatory program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other																
Company Name: Arcadis	Client Project Manager: Kris Hinskey	Lab Contact: Mike DelMonico																
Address: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240	Telephone: 330-497-9396																
City/State/Zip: Novi, MI, 48377	Email: kris@hinskey.com	COCs																
Phone: 248-994-2240	Sampler Name: XENIA CHAN	Analysis																
Project Name: Ford LTP Off-Site	Method of Shipment/Carrier:	Walk-in client																
Project Number: 30650315.402.04	Shipping/Tracking No:	Lab sampling																
PO # 30650315.402.04		Job/SDG No:																
Sample Identification	Sample Date	Sample Time	Matrix			Filtered Sample (Y/N)	Composite C/Grab-G	Analyses					Sample Specific Notes / Special Instructions:					
			Aqueous	Sediment	Solid			Other:	H2SO4	HNO3	HCl	NaOH		ZnAc/NaOH	Other:	1,1-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B
TRIP BLANK	---	---	1															1 TRIP BLANK
MW-192S-051920	5/19/20	10:20	6															3 VOAS 8260B 3 VOAS 8260B SIM
MW-106S-051920	5/19/20	1200	6															3 VOAS 8260B 3 VOAS 8260B SIM
MW-106S-MS-051920	5/19/20	1200	6															RUN MS/MSD
MW-106S-MSD-051920	5/19/20	1200	6															RUN MS/MSD
MW-84-051920	5/19/20	1407	6															3 VOAS 8260B 3 VOAS 8260B SIM
MW-84-MS-051920	5/19/20	1407	6															RUN MS/MSD
MW-84-MSD-051920	5/19/20	1407	6															RUN MS/MSD
MW-84S-051920	5/19/20	1527	6															3 VOAS 8260B 3 VOAS 8260B SIM



Submit all results through Cadena at: tomalia@cadenaco.com, Cadena #E203631
Level IV Reporting requested.

Relinquished by: <i>Kris Hinskey</i>	Company: ARCADIS	Date/Time: 5/19/20 1550	Received by: <i>ARCADIS</i>	Company: ARCADIS	Date/Time: 5/19/20 1550
Relinquished by: <i>ARCADIS</i>	Company: ARCADIS	Date/Time: 5/19/20 1650	Received by: <i>ARCADIS</i>	Company: ARCADIS	Date/Time: 5/19/20 1650
Relinquished by: <i>Arcadis</i>	Company: ARCADIS	Date/Time: 5/20/20 1050	Received by: <i>ARCADIS</i>	Company: ARCADIS	Date/Time: 5/20/20 10:58

Relinquished by *Angela M. ...* ETA 5-21-20 9:20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

240-130578

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Eurofins TestAmerica Canton Sample Receipt Form/Narrative		Login # : _____
Canton Facility		
Client <u>Aradia</u>	Site Name _____	Cooler unpacked by: <u>Ryan C</u>
Cooler Received on <u>5-21-20</u>	Opened on <u>5-21-20 9:20</u>	
FedEx: 1 st <input checked="" type="checkbox"/> Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____		
Receipt After-hours: Drop-off Date/Time		Storage Location
TestAmerica Cooler # <u>TA</u>	Foam Box _____	Client Cooler Box Other _____
Packing material used: <u>Bubble Wrap</u> Foam Plastic Bag None Other _____		
COOLANT: <u>Wet Ice</u> Blue Ice Dry Ice Water None		
1. Cooler temperature upon receipt <input type="checkbox"/> See Multiple Cooler Form		
IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp. <u>3.5</u> °C Corrected Cooler Temp. <u>4.2</u> °C		
IR GUN #IR-11 (CF +0.9 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C		
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u> Yes No		
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA		
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA		
-Were tamper/custody seals intact and uncompromised? Yes No NA		
3. Shippers' packing slip attached to the cooler(s)? Yes No		
4. Did custody papers accompany the sample(s)? Yes No		
5. Were the custody papers relinquished & signed in the appropriate place? Yes No		
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No		
7. Did all bottles arrive in good condition (Unbroken)? Yes No		
8. Could all bottle labels be reconciled with the COC? Yes No		
9. Were correct bottle(s) used for the test(s) indicated? Yes No		
10. Sufficient quantity received to perform indicated analyses? Yes No		
11. Are these work share samples? Yes No		
If yes, Questions 12-16 have been checked at the originating laboratory.		
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No <u>NA</u> pH Strip Lot# <u>HC902937</u>		
13. Were VOAs on the COC? Yes No		
14. Were air bubbles >6 mm in any VOA vials? <input checked="" type="checkbox"/> Larger than this. Yes No NA		
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # <u>59072</u> Yes No		
16. Was a LL Hg or Me Hg trip blank present? Yes No		
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____		
Concerning _____		
17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES		Samples processed by: _____
_____ _____ _____ _____		
18. SAMPLE CONDITION		
Sample(s) _____ were received after the recommended holding time had expired.		
Sample(s) _____ were received in a broken container.		
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)		
19. SAMPLE PRESERVATION		
Sample(s) _____ were further preserved in the laboratory.		
Time preserved: _____ Preservative(s) added/Lot number(s): _____		
VOA Sample Preservation - Date/Time VOAs Frozen: _____		

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC