

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
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Tel: (330)497-9396

Laboratory Job ID: 240-125897-1
Client Project/Site: Ford LTP Off Site

For:
ARCADIS U.S., Inc.
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Attn: Kristoffer Hinskey



Authorized for release by:
2/20/2020 9:27:43 AM

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



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Definitions/Glossary

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

Job ID: 240-125897-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits

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)
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: 240-125897-1

Job ID: 240-125897-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP Off Site

Report Number: 240-125897-1

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 2/6/2020 8:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.9° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TRIP BLANK (240-125897-1), MW-132S_020420 (240-125897-2), MW-131S_020420 (240-125897-3), MW-137S_020420 (240-125897-4), MW-80SR_020420 (240-125897-5) and DUP-11 (240-125897-6) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 02/07/2020 and 02/10/2020.

Dibromofluoromethane (Surr) failed the surrogate recovery criteria high for TRIP BLANK (240-125897-1). Refer to the QC report for details.

Surrogate recovery for the following sample was outside the upper control limit: TRIP BLANK (240-125897-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Samples MW-132S_020420 (240-125897-2), MW-131S_020420 (240-125897-3), MW-137S_020420 (240-125897-4), MW-80SR_020420 (240-125897-5) and DUP-11 (240-125897-6) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 02/10/2020.

Case Narrative

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

Job ID: 240-125897-1

Job ID: 240-125897-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

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: 240-125897-1

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: 240-125897-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-125897-1	TRIP BLANK	Water	02/04/20 00:00	02/06/20 08:20	
240-125897-2	MW-132S_020420	Water	02/04/20 09:58	02/06/20 08:20	
240-125897-3	MW-131S_020420	Water	02/04/20 11:42	02/06/20 08:20	
240-125897-4	MW-137S_020420	Water	02/04/20 13:30	02/06/20 08:20	
240-125897-5	MW-80SR_020420	Water	02/04/20 14:27	02/06/20 08:20	
240-125897-6	DUP-11	Water	02/04/20 00:00	02/06/20 08:20	

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- 14

Detection Summary

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

Job ID: 240-125897-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-125897-1

No Detections.

Client Sample ID: MW-132S_020420

Lab Sample ID: 240-125897-2

No Detections.

Client Sample ID: MW-131S_020420

Lab Sample ID: 240-125897-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.52	J	1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: MW-137S_020420

Lab Sample ID: 240-125897-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.27	J	1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: MW-80SR_020420

Lab Sample ID: 240-125897-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.8		1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: DUP-11

Lab Sample ID: 240-125897-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	2.2		1.0	0.20	ug/L	1		8260B	Total/NA

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: 240-125897-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-125897-1

Date Collected: 02/04/20 00:00

Matrix: Water

Date Received: 02/06/20 08:20

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			02/07/20 19:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/07/20 19:26	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/07/20 19:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/07/20 19:26	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/07/20 19:26	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/07/20 19:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		75 - 130		02/07/20 19:26	1
4-Bromofluorobenzene (Surr)	63		47 - 134		02/07/20 19:26	1
Toluene-d8 (Surr)	85		69 - 122		02/07/20 19:26	1
Dibromofluoromethane (Surr)	131	X	78 - 129		02/07/20 19:26	1

Client Sample Results

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

Job ID: 240-125897-1

Client Sample ID: MW-132S_020420

Lab Sample ID: 240-125897-2

Date Collected: 02/04/20 09:58

Matrix: Water

Date Received: 02/06/20 08:20

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			02/10/20 18:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 133		02/10/20 18:57	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			02/07/20 19:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/07/20 19:50	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/07/20 19:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/07/20 19:50	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/07/20 19:50	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/07/20 19:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		75 - 130		02/07/20 19:50	1
4-Bromofluorobenzene (Surr)	68		47 - 134		02/07/20 19:50	1
Toluene-d8 (Surr)	89		69 - 122		02/07/20 19:50	1
Dibromofluoromethane (Surr)	124		78 - 129		02/07/20 19:50	1

Client Sample Results

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

Job ID: 240-125897-1

Client Sample ID: MW-131S_020420

Lab Sample ID: 240-125897-3

Date Collected: 02/04/20 11:42

Matrix: Water

Date Received: 02/06/20 08:20

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			02/10/20 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 133		02/10/20 19:23	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			02/07/20 20:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/07/20 20:13	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/07/20 20:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/07/20 20:13	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/07/20 20:13	1
Vinyl chloride	0.52	J	1.0	0.20	ug/L			02/07/20 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		75 - 130		02/07/20 20:13	1
4-Bromofluorobenzene (Surr)	70		47 - 134		02/07/20 20:13	1
Toluene-d8 (Surr)	89		69 - 122		02/07/20 20:13	1
Dibromofluoromethane (Surr)	127		78 - 129		02/07/20 20:13	1

Client Sample Results

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

Job ID: 240-125897-1

Client Sample ID: MW-137S_020420

Lab Sample ID: 240-125897-4

Date Collected: 02/04/20 13:30

Matrix: Water

Date Received: 02/06/20 08:20

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			02/10/20 20:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 133					02/10/20 20:39	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			02/07/20 20:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/07/20 20:37	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/07/20 20:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/07/20 20:37	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/07/20 20:37	1
Vinyl chloride	0.27	J	1.0	0.20	ug/L			02/07/20 20:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		75 - 130					02/07/20 20:37	1
4-Bromofluorobenzene (Surr)	70		47 - 134					02/07/20 20:37	1
Toluene-d8 (Surr)	88		69 - 122					02/07/20 20:37	1
Dibromofluoromethane (Surr)	128		78 - 129					02/07/20 20:37	1

Client Sample Results

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

Job ID: 240-125897-1

Client Sample ID: MW-80SR_020420

Lab Sample ID: 240-125897-5

Date Collected: 02/04/20 14:27

Matrix: Water

Date Received: 02/06/20 08:20

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			02/10/20 21:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 133		02/10/20 21:04	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			02/07/20 21:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/07/20 21:01	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/07/20 21:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/07/20 21:01	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/07/20 21:01	1
Vinyl chloride	1.8		1.0	0.20	ug/L			02/07/20 21:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 130		02/07/20 21:01	1
4-Bromofluorobenzene (Surr)	68		47 - 134		02/07/20 21:01	1
Toluene-d8 (Surr)	89		69 - 122		02/07/20 21:01	1
Dibromofluoromethane (Surr)	125		78 - 129		02/07/20 21:01	1

Client Sample Results

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

Job ID: 240-125897-1

Client Sample ID: DUP-11

Lab Sample ID: 240-125897-6

Date Collected: 02/04/20 00:00

Matrix: Water

Date Received: 02/06/20 08:20

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	-		02/10/20 21:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 133					02/10/20 21:30	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	-		02/10/20 14:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L	-		02/10/20 14:49	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L	-		02/10/20 14:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L	-		02/10/20 14:49	1
Trichloroethene	1.0	U	1.0	0.10	ug/L	-		02/10/20 14:49	1
Vinyl chloride	2.2		1.0	0.20	ug/L	-		02/10/20 14:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		75 - 130					02/10/20 14:49	1
4-Bromofluorobenzene (Surr)	70		47 - 134					02/10/20 14:49	1
Toluene-d8 (Surr)	91		69 - 122					02/10/20 14:49	1
Dibromofluoromethane (Surr)	123		78 - 129					02/10/20 14:49	1

Surrogate Summary

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

Job ID: 240-125897-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (75-130)	BFB (47-134)	TOL (69-122)	DBFM (78-129)
240-125897-1	TRIP BLANK	117	63	85	131 X
240-125897-2	MW-132S_020420	121	68	89	124
240-125897-3	MW-131S_020420	122	70	89	127
240-125897-3 MS	MW-131S_020420	102	93	97	105
240-125897-3 MSD	MW-131S_020420	91	89	92	99
240-125897-4	MW-137S_020420	118	70	88	128
240-125897-5	MW-80SR_020420	112	68	89	125
240-125897-6	DUP-11	111	70	91	123
240-125898-D-5 MS	Matrix Spike	102	96	100	102
240-125898-E-5 MSD	Matrix Spike Duplicate	89	94	98	103
LCS 240-421948/4	Lab Control Sample	95	97	101	108
LCS 240-422133/4	Lab Control Sample	94	100	102	104
MB 240-421948/7	Method Blank	108	72	93	119
MB 240-422133/7	Method Blank	111	78	97	126

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)
240-125897-2	MW-132S_020420	101
240-125897-3	MW-131S_020420	100
240-125897-3 MS	MW-131S_020420	99
240-125897-3 MSD	MW-131S_020420	101
240-125897-4	MW-137S_020420	100
240-125897-5	MW-80SR_020420	101
240-125897-6	DUP-11	100
LCS 240-422139/4	Lab Control Sample	96
MB 240-422139/5	Method Blank	98

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-125897-1

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

Lab Sample ID: MB 240-421948/7
Matrix: Water
Analysis Batch: 421948

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			02/07/20 15:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/07/20 15:04	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/07/20 15:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/07/20 15:04	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/07/20 15:04	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/07/20 15:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 130		02/07/20 15:04	1
4-Bromofluorobenzene (Surr)	72		47 - 134		02/07/20 15:04	1
Toluene-d8 (Surr)	93		69 - 122		02/07/20 15:04	1
Dibromofluoromethane (Surr)	119		78 - 129		02/07/20 15:04	1

Lab Sample ID: LCS 240-421948/4
Matrix: Water
Analysis Batch: 421948

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	10.4		ug/L		104	73 - 129
cis-1,2-Dichloroethene	10.0	10.5		ug/L		105	75 - 124
Tetrachloroethene	10.0	10.2		ug/L		102	70 - 125
trans-1,2-Dichloroethene	10.0	11.6		ug/L		116	74 - 130
Trichloroethene	10.0	10.7		ug/L		107	71 - 121
Vinyl chloride	10.0	7.43		ug/L		74	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		75 - 130
4-Bromofluorobenzene (Surr)	97		47 - 134
Toluene-d8 (Surr)	101		69 - 122
Dibromofluoromethane (Surr)	108		78 - 129

Lab Sample ID: 240-125897-3 MS
Matrix: Water
Analysis Batch: 421948

Client Sample ID: MW-131S_020420
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	9.87		ug/L		99	64 - 132
cis-1,2-Dichloroethene	1.0	U	10.0	9.85		ug/L		99	68 - 121
Tetrachloroethene	1.0	U	10.0	8.67		ug/L		87	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	10.3		ug/L		103	69 - 126
Trichloroethene	1.0	U	10.0	9.52		ug/L		95	56 - 124
Vinyl chloride	0.52	J	10.0	8.13		ug/L		76	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		75 - 130
4-Bromofluorobenzene (Surr)	93		47 - 134
Toluene-d8 (Surr)	97		69 - 122

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-125897-1

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

Lab Sample ID: 240-125897-3 MS
Matrix: Water
Analysis Batch: 421948

Client Sample ID: MW-131S_020420
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	105		78 - 129

Lab Sample ID: 240-125897-3 MSD
Matrix: Water
Analysis Batch: 421948

Client Sample ID: MW-131S_020420
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	9.65		ug/L		97	64 - 132	2	35
cis-1,2-Dichloroethene	1.0	U	10.0	9.71		ug/L		97	68 - 121	1	35
Tetrachloroethene	1.0	U	10.0	8.38		ug/L		84	52 - 129	3	35
trans-1,2-Dichloroethene	1.0	U	10.0	10.3		ug/L		103	69 - 126	0	35
Trichloroethene	1.0	U	10.0	9.00		ug/L		90	56 - 124	6	35
Vinyl chloride	0.52	J	10.0	7.68		ug/L		72	49 - 136	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		75 - 130
4-Bromofluorobenzene (Surr)	89		47 - 134
Toluene-d8 (Surr)	92		69 - 122
Dibromofluoromethane (Surr)	99		78 - 129

Lab Sample ID: MB 240-422133/7
Matrix: Water
Analysis Batch: 422133

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			02/10/20 12:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/10/20 12:50	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/10/20 12:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/10/20 12:50	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/10/20 12:50	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/10/20 12:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		75 - 130		02/10/20 12:50	1
4-Bromofluorobenzene (Surr)	78		47 - 134		02/10/20 12:50	1
Toluene-d8 (Surr)	97		69 - 122		02/10/20 12:50	1
Dibromofluoromethane (Surr)	126		78 - 129		02/10/20 12:50	1

Lab Sample ID: LCS 240-422133/4
Matrix: Water
Analysis Batch: 422133

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	10.4		ug/L		104	73 - 129
cis-1,2-Dichloroethene	10.0	10.8		ug/L		108	75 - 124
Tetrachloroethene	10.0	10.1		ug/L		101	70 - 125
trans-1,2-Dichloroethene	10.0	11.3		ug/L		113	74 - 130
Trichloroethene	10.0	10.1		ug/L		101	71 - 121

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-125897-1

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

Lab Sample ID: LCS 240-422133/4
Matrix: Water
Analysis Batch: 422133

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	7.67		ug/L		77	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		75 - 130
4-Bromofluorobenzene (Surr)	100		47 - 134
Toluene-d8 (Surr)	102		69 - 122
Dibromofluoromethane (Surr)	104		78 - 129

Lab Sample ID: 240-125898-D-5 MS
Matrix: Water
Analysis Batch: 422133

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
1,1-Dichloroethene	1.0	U	10.0	10.4		ug/L		104	64 - 132
cis-1,2-Dichloroethene	0.20	J	10.0	11.0		ug/L		108	68 - 121
Tetrachloroethene	1.0	U	10.0	10.4		ug/L		104	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	11.2		ug/L		112	69 - 126
Trichloroethene	1.0	U	10.0	10.4		ug/L		104	56 - 124
Vinyl chloride	1.0	U	10.0	7.64		ug/L		76	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		75 - 130
4-Bromofluorobenzene (Surr)	96		47 - 134
Toluene-d8 (Surr)	100		69 - 122
Dibromofluoromethane (Surr)	102		78 - 129

Lab Sample ID: 240-125898-E-5 MSD
Matrix: Water
Analysis Batch: 422133

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
1,1-Dichloroethene	1.0	U	10.0	9.95		ug/L		100	64 - 132	4	35
cis-1,2-Dichloroethene	0.20	J	10.0	10.0		ug/L		98	68 - 121	9	35
Tetrachloroethene	1.0	U	10.0	9.47		ug/L		95	52 - 129	10	35
trans-1,2-Dichloroethene	1.0	U	10.0	11.2		ug/L		112	69 - 126	1	35
Trichloroethene	1.0	U	10.0	9.74		ug/L		97	56 - 124	7	35
Vinyl chloride	1.0	U	10.0	7.56		ug/L		76	49 - 136	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		75 - 130
4-Bromofluorobenzene (Surr)	94		47 - 134
Toluene-d8 (Surr)	98		69 - 122
Dibromofluoromethane (Surr)	103		78 - 129

QC Sample Results

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

Job ID: 240-125897-1

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

Lab Sample ID: MB 240-422139/5
Matrix: Water
Analysis Batch: 422139

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			02/10/20 12:33	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 133					02/10/20 12:33	1

Lab Sample ID: LCS 240-422139/4
Matrix: Water
Analysis Batch: 422139

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	9.74		ug/L		97	80 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	96		70 - 133				

Lab Sample ID: 240-125897-3 MS
Matrix: Water
Analysis Batch: 422139

Client Sample ID: MW-131S_020420
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	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	99		70 - 133						

Lab Sample ID: 240-125897-3 MSD
Matrix: Water
Analysis Batch: 422139

Client Sample ID: MW-131S_020420
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	10.2		ug/L		102	46 - 170	0	26
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	101		70 - 133								

QC Association Summary

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

Job ID: 240-125897-1

GC/MS VOA

Analysis Batch: 421948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-125897-1	TRIP BLANK	Total/NA	Water	8260B	
240-125897-2	MW-132S_020420	Total/NA	Water	8260B	
240-125897-3	MW-131S_020420	Total/NA	Water	8260B	
240-125897-4	MW-137S_020420	Total/NA	Water	8260B	
240-125897-5	MW-80SR_020420	Total/NA	Water	8260B	
MB 240-421948/7	Method Blank	Total/NA	Water	8260B	
LCS 240-421948/4	Lab Control Sample	Total/NA	Water	8260B	
240-125897-3 MS	MW-131S_020420	Total/NA	Water	8260B	
240-125897-3 MSD	MW-131S_020420	Total/NA	Water	8260B	

Analysis Batch: 422133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-125897-6	DUP-11	Total/NA	Water	8260B	
MB 240-422133/7	Method Blank	Total/NA	Water	8260B	
LCS 240-422133/4	Lab Control Sample	Total/NA	Water	8260B	
240-125898-D-5 MS	Matrix Spike	Total/NA	Water	8260B	
240-125898-E-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 422139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-125897-2	MW-132S_020420	Total/NA	Water	8260B SIM	
240-125897-3	MW-131S_020420	Total/NA	Water	8260B SIM	
240-125897-4	MW-137S_020420	Total/NA	Water	8260B SIM	
240-125897-5	MW-80SR_020420	Total/NA	Water	8260B SIM	
240-125897-6	DUP-11	Total/NA	Water	8260B SIM	
MB 240-422139/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-422139/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-125897-3 MS	MW-131S_020420	Total/NA	Water	8260B SIM	
240-125897-3 MSD	MW-131S_020420	Total/NA	Water	8260B SIM	

Lab Chronicle

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

Job ID: 240-125897-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-125897-1

Date Collected: 02/04/20 00:00

Matrix: Water

Date Received: 02/06/20 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	421948	02/07/20 19:26	LRW	TAL CAN

Client Sample ID: MW-132S_020420

Lab Sample ID: 240-125897-2

Date Collected: 02/04/20 09:58

Matrix: Water

Date Received: 02/06/20 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	421948	02/07/20 19:50	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	422139	02/10/20 18:57	SAM	TAL CAN

Client Sample ID: MW-131S_020420

Lab Sample ID: 240-125897-3

Date Collected: 02/04/20 11:42

Matrix: Water

Date Received: 02/06/20 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	421948	02/07/20 20:13	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	422139	02/10/20 19:23	SAM	TAL CAN

Client Sample ID: MW-137S_020420

Lab Sample ID: 240-125897-4

Date Collected: 02/04/20 13:30

Matrix: Water

Date Received: 02/06/20 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	421948	02/07/20 20:37	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	422139	02/10/20 20:39	SAM	TAL CAN

Client Sample ID: MW-80SR_020420

Lab Sample ID: 240-125897-5

Date Collected: 02/04/20 14:27

Matrix: Water

Date Received: 02/06/20 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	421948	02/07/20 21:01	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	422139	02/10/20 21:04	SAM	TAL CAN

Client Sample ID: DUP-11

Lab Sample ID: 240-125897-6

Date Collected: 02/04/20 00:00

Matrix: Water

Date Received: 02/06/20 08:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	422133	02/10/20 14:49	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	422139	02/10/20 21:30	SAM	TAL CAN

Laboratory References:

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

Eurofins TestAmerica, Canton

Accreditation/Certification Summary

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

Job ID: 240-125897-1

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	02-23-20 *
Connecticut	State	PH-0590	12-31-19 *
Florida	NELAP	E87225	06-30-20
Georgia	State	4062	02-23-20 *
Illinois	NELAP	004498	07-31-20
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-20
Kentucky (UST)	State	112225	02-23-20
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	03-31-20
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-23-20 *
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-18-10	08-31-20
USDA	US Federal Programs	P330-16-00404	12-28-19 *
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.



4.2/4.9
2.9/3.6

Chain of Custody Record



MICHIGAN
190

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

Regulatory program: DW NPDES RCRA Other

Client Contact
 Company Name: Arcadis
 Address: 28550 Cabot Drive, Suite 500
 City/State/Zip: Novi, MI, 48377
 Phone: 248-994-2240
 Project Name: Ford LTP Off-Site
 Project Number: 30042006.0402.02
 PO # 30042006.0402.02

Client Project Manager: Kris Hinskey
 Telephone: 248-994-2240
 Email: kristoffer.hinskey@arcadis.com

Site Contact: Julia McClafferty
 Telephone: 734-644-5131

Lab Contact: Mike DeMonico
 Telephone: 330-497-9396

COCs: _____ of _____ COCs

Sample Identification	Sample Date	Sample Time	Matrix				Containers & Preservatives				Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses							Sample Specific Notes / Special Instructions:		
			Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH			ZnAc	LiNO3	Other:	1,1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B		TCE 8260B	Vinyl Chloride 8260B
TRIP BLANK																					TRIP BLANK	
MW-132S_020420	2/4/20	0958	X																			3 VOPS: 8260B 3 X OPS: 8260B SIM
MW-131S_020420		1142																				run MS/MSD
MW-131S-MS_020420		1330																				run MS/MSD
MW-137S_020420		1427																				
MW-805R_020420																						
DUP-11																						



240-125897 Chain of Custody

Possible Hazard Identification
 Non-Hazard Flammable Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:

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

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
<i>[Signature]</i>	Arcadis	2/4/20 1530	<i>[Signature]</i>	Arcadis	2/4/20 1530
<i>[Signature]</i>	Arcadis	2/4/20 1830	<i>[Signature]</i>	Arcadis	2/4/20 1830
<i>[Signature]</i>	Arcadis	2/5/20 1154	<i>[Signature]</i>	ETA	2/5/20 1155

RACHEL BIELEK *[Signature]* **ETA** 2/5/20 1450

ETA 2/6-20 820



Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 125897

Client Arcadis Site Name _____
 Cooler Received on 2-6-20 Opened on 2-6-20

Cooler unpacked by: [Signature]

FedEx: 1st Gro Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # VH Foam Box Client Cooler Box 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 See Multiple Cooler Form
 IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °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 2 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
 -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 pH Strip Lot# HC995364
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # NA Yes No
16. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:
 VOAs
 Oil and Grease
 TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by: AG

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: _____

