

ANALYTICAL REPORT

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

Laboratory Job ID: 240-140444-1
Client Project/Site: Ford LTP - On Site

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

Attn: Kristoffer Hinskey



Authorized for release by:
12/2/2020 9:20:23 AM

Michael DelMonico, Project Manager I
(330)497-9396
Michael.DelMonico@Eurofinset.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	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	14
QC Sample Results	15
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 - On Site

Job ID: 240-140444-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 240-140444-1

Job ID: 240-140444-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP - On Site

Report Number: 240-140444-1

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 11/18/2020 9:40 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.2° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TRIP BLANK (240-140444-1), MW-221S_111620 (240-140444-2), MW-36_111620 (240-140444-3), MW-24_111620 (240-140444-4) and MW-37_111620 (240-140444-5) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/25/2020 and 11/27/2020.

cis-1,2-Dichloroethene was detected in method blank MB 240-462825/7 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The continuing calibration verification (CCV) associated with batch 240-462983 recovered above the upper control limit for Vinyl Chloride. The samples associated with this CCV were below the reporting limit (RL) for the affected analytes; therefore, the data have been reported. The associated samples are impacted: MW-37_111620 (240-140444-5) and (CCVIS 240-462983/4).

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

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Case Narrative

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

Job ID: 240-140444-1

Job ID: 240-140444-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

Samples MW-221S_111620 (240-140444-2), MW-36_111620 (240-140444-3), MW-24_111620 (240-140444-4) and MW-37_111620 (240-140444-5) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 11/24/2020.

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

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

Method Summary

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

Job ID: 240-140444-1

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 - On Site

Job ID: 240-140444-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-140444-1	TRIP BLANK	Water	11/16/20 00:00	11/18/20 09:40	
240-140444-2	MW-221S_111620	Water	11/16/20 09:35	11/18/20 09:40	
240-140444-3	MW-36_111620	Water	11/16/20 10:44	11/18/20 09:40	
240-140444-4	MW-24_111620	Water	11/16/20 11:55	11/18/20 09:40	
240-140444-5	MW-37_111620	Water	11/16/20 13:15	11/18/20 09:40	

- 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 - On Site

Job ID: 240-140444-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-140444-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.50	J B	1.0	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-221S_111620

Lab Sample ID: 240-140444-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.7	B	1.0	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-36_111620

Lab Sample ID: 240-140444-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.33	J B	1.0	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-24_111620

Lab Sample ID: 240-140444-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.30	J B	1.0	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-37_111620

Lab Sample ID: 240-140444-5

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 - On Site

Job ID: 240-140444-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-140444-1

Date Collected: 11/16/20 00:00

Matrix: Water

Date Received: 11/18/20 09:40

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			11/25/20 19:43	1
cis-1,2-Dichloroethene	0.50	J B	1.0	0.16	ug/L			11/25/20 19:43	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/25/20 19:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/25/20 19:43	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/25/20 19:43	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/25/20 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		75 - 130		11/25/20 19:43	1
4-Bromofluorobenzene (Surr)	105		47 - 134		11/25/20 19:43	1
Toluene-d8 (Surr)	79		69 - 122		11/25/20 19:43	1
Dibromofluoromethane (Surr)	84		78 - 129		11/25/20 19:43	1

Client Sample Results

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

Job ID: 240-140444-1

Client Sample ID: MW-221S_111620

Lab Sample ID: 240-140444-2

Date Collected: 11/16/20 09:35

Matrix: Water

Date Received: 11/18/20 09:40

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			11/24/20 16:58	1
Surrogate									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 133					11/24/20 16:58	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			11/25/20 20:08	1
cis-1,2-Dichloroethene	1.7	B	1.0	0.16	ug/L			11/25/20 20:08	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/25/20 20:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/25/20 20:08	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/25/20 20:08	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/25/20 20:08	1
Surrogate									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 130					11/25/20 20:08	1
4-Bromofluorobenzene (Surr)	105		47 - 134					11/25/20 20:08	1
Toluene-d8 (Surr)	79		69 - 122					11/25/20 20:08	1
Dibromofluoromethane (Surr)	89		78 - 129					11/25/20 20:08	1

Client Sample Results

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

Job ID: 240-140444-1

Client Sample ID: MW-36_111620

Lab Sample ID: 240-140444-3

Date Collected: 11/16/20 10:44

Matrix: Water

Date Received: 11/18/20 09:40

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			11/24/20 17:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 133		11/24/20 17:23	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			11/25/20 20:33	1
cis-1,2-Dichloroethene	0.33	J B	1.0	0.16	ug/L			11/25/20 20:33	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/25/20 20:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/25/20 20:33	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/25/20 20:33	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/25/20 20:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		75 - 130		11/25/20 20:33	1
4-Bromofluorobenzene (Surr)	103		47 - 134		11/25/20 20:33	1
Toluene-d8 (Surr)	76		69 - 122		11/25/20 20:33	1
Dibromofluoromethane (Surr)	85		78 - 129		11/25/20 20:33	1

Client Sample Results

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

Job ID: 240-140444-1

Client Sample ID: MW-24_111620

Lab Sample ID: 240-140444-4

Date Collected: 11/16/20 11:55

Matrix: Water

Date Received: 11/18/20 09:40

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			11/24/20 17:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 133					11/24/20 17:49	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			11/25/20 20:58	1
cis-1,2-Dichloroethene	0.30	J B	1.0	0.16	ug/L			11/25/20 20:58	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/25/20 20:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/25/20 20:58	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/25/20 20:58	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/25/20 20:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		75 - 130					11/25/20 20:58	1
4-Bromofluorobenzene (Surr)	96		47 - 134					11/25/20 20:58	1
Toluene-d8 (Surr)	77		69 - 122					11/25/20 20:58	1
Dibromofluoromethane (Surr)	86		78 - 129					11/25/20 20:58	1

Client Sample Results

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

Job ID: 240-140444-1

Client Sample ID: MW-37_111620

Lab Sample ID: 240-140444-5

Date Collected: 11/16/20 13:15

Matrix: Water

Date Received: 11/18/20 09:40

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			11/24/20 19:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 133		11/24/20 19:05	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			11/27/20 19:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/27/20 19:48	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/27/20 19:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/27/20 19:48	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/27/20 19:48	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/27/20 19:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		75 - 130		11/27/20 19:48	1
4-Bromofluorobenzene (Surr)	98		47 - 134		11/27/20 19:48	1
Toluene-d8 (Surr)	102		69 - 122		11/27/20 19:48	1
Dibromofluoromethane (Surr)	96		78 - 129		11/27/20 19:48	1

Surrogate Summary

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

Job ID: 240-140444-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-130)	BFB (47-134)	TOL (69-122)	DBFM (78-129)
240-140444-1	TRIP BLANK	90	105	79	84
240-140444-2	MW-221S_111620	88	105	79	89
240-140444-3	MW-36_111620	89	103	76	85
240-140444-4	MW-24_111620	89	96	77	86
240-140444-4 MS	MW-24-MS_111620	85	110	79	91
240-140444-4 MSD	MW-24-MSD_111620	83	108	77	89
240-140444-5	MW-37_111620	121	98	102	96
240-140444-5 MS	MW-37-MS_111620	107	104	104	86
240-140444-5 MSD	MW-37-MSD_111620	107	104	104	83
LCS 240-462825/4	Lab Control Sample	84	112	79	86
LCS 240-462983/7	Lab Control Sample	106	105	104	85
MB 240-462825/7	Method Blank	87	103	77	88
MB 240-462983/11	Method Blank	117	101	102	95

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (70-133)
240-140444-2	MW-221S_111620	96
240-140444-3	MW-36_111620	97
240-140444-4	MW-24_111620	95
240-140444-4 MS	MW-24-MS_111620	98
240-140444-4 MSD	MW-24-MSD_111620	95
240-140444-5	MW-37_111620	97
240-140444-5 MS	MW-37-MS_111620	96
240-140444-5 MSD	MW-37-MSD_111620	98
LCS 240-462582/4	Lab Control Sample	87
MB 240-462582/5	Method Blank	89

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-140444-1

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

Lab Sample ID: MB 240-462825/7
Matrix: Water
Analysis Batch: 462825

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/25/20 15:17	1
cis-1,2-Dichloroethene	0.437	J	1.0	0.16	ug/L			11/25/20 15:17	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/25/20 15:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/25/20 15:17	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/25/20 15:17	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/25/20 15:17	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	87		75 - 130		11/25/20 15:17	1
4-Bromofluorobenzene (Surr)	103		47 - 134		11/25/20 15:17	1
Toluene-d8 (Surr)	77		69 - 122		11/25/20 15:17	1
Dibromofluoromethane (Surr)	88		78 - 129		11/25/20 15:17	1

Lab Sample ID: LCS 240-462825/4
Matrix: Water
Analysis Batch: 462825

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1-Dichloroethene	10.0	10.9		ug/L		109	73 - 129
cis-1,2-Dichloroethene	10.0	11.2		ug/L		112	75 - 124
Tetrachloroethene	10.0	9.97		ug/L		100	70 - 125
trans-1,2-Dichloroethene	10.0	10.6		ug/L		106	74 - 130
Trichloroethene	10.0	10.9		ug/L		109	71 - 121
Vinyl chloride	10.0	11.8		ug/L		118	61 - 134

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	84		75 - 130
4-Bromofluorobenzene (Surr)	112		47 - 134
Toluene-d8 (Surr)	79		69 - 122
Dibromofluoromethane (Surr)	86		78 - 129

Lab Sample ID: 240-140444-4 MS
Matrix: Water
Analysis Batch: 462825

Client Sample ID: MW-24-MS_111620
Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	1.0	U	10.0	10.0		ug/L		100	64 - 132
cis-1,2-Dichloroethene	0.30	J B	10.0	10.2		ug/L		99	68 - 121
Tetrachloroethene	1.0	U	10.0	8.55		ug/L		86	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	9.29		ug/L		93	69 - 126
Trichloroethene	1.0	U	10.0	9.63		ug/L		96	56 - 124
Vinyl chloride	1.0	U	10.0	11.4		ug/L		114	49 - 136

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	85		75 - 130
4-Bromofluorobenzene (Surr)	110		47 - 134
Toluene-d8 (Surr)	79		69 - 122

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-140444-1

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

Lab Sample ID: 240-140444-4 MS
Matrix: Water
Analysis Batch: 462825

Client Sample ID: MW-24-MS_111620
Prep Type: Total/NA

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
<i>Dibromofluoromethane (Surr)</i>	91		78 - 129

Lab Sample ID: 240-140444-4 MSD
Matrix: Water
Analysis Batch: 462825

Client Sample ID: MW-24-MSD_111620
Prep Type: Total/NA

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
1,1-Dichloroethene	1.0	U	10.0	10.5		ug/L		105	64 - 132	4	35
cis-1,2-Dichloroethene	0.30	J B	10.0	10.8		ug/L		105	68 - 121	7	35
Tetrachloroethene	1.0	U	10.0	8.79		ug/L		88	52 - 129	3	35
trans-1,2-Dichloroethene	1.0	U	10.0	10.0		ug/L		100	69 - 126	8	35
Trichloroethene	1.0	U	10.0	10.4		ug/L		104	56 - 124	8	35
Vinyl chloride	1.0	U	10.0	11.1		ug/L		111	49 - 136	2	35

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	83		75 - 130
<i>4-Bromofluorobenzene (Surr)</i>	108		47 - 134
<i>Toluene-d8 (Surr)</i>	77		69 - 122
<i>Dibromofluoromethane (Surr)</i>	89		78 - 129

Lab Sample ID: MB 240-462983/11
Matrix: Water
Analysis Batch: 462983

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

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/27/20 12:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/27/20 12:46	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/27/20 12:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/27/20 12:46	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/27/20 12:46	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/27/20 12:46	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>	117		75 - 130		11/27/20 12:46	1
<i>4-Bromofluorobenzene (Surr)</i>	101		47 - 134		11/27/20 12:46	1
<i>Toluene-d8 (Surr)</i>	102		69 - 122		11/27/20 12:46	1
<i>Dibromofluoromethane (Surr)</i>	95		78 - 129		11/27/20 12:46	1

Lab Sample ID: LCS 240-462983/7
Matrix: Water
Analysis Batch: 462983

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

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
1,1-Dichloroethene	20.0	20.0		ug/L		100	73 - 129
cis-1,2-Dichloroethene	20.0	20.0		ug/L		100	75 - 124
Tetrachloroethene	20.0	18.2		ug/L		91	70 - 125
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	74 - 130
Trichloroethene	20.0	16.5		ug/L		83	71 - 121

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-140444-1

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

Lab Sample ID: LCS 240-462983/7
Matrix: Water
Analysis Batch: 462983

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	20.0	23.2		ug/L		116	61 - 134
Surrogate							
	%Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	106		75 - 130				
4-Bromofluorobenzene (Surr)	105		47 - 134				
Toluene-d8 (Surr)	104		69 - 122				
Dibromofluoromethane (Surr)	85		78 - 129				

Lab Sample ID: 240-140444-5 MS
Matrix: Water
Analysis Batch: 462983

Client Sample ID: MW-37-MS_111620
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	20.0	18.9		ug/L		95	64 - 132
cis-1,2-Dichloroethene	1.0	U	20.0	18.9		ug/L		94	68 - 121
Tetrachloroethene	1.0	U	20.0	16.4		ug/L		82	52 - 129
trans-1,2-Dichloroethene	1.0	U	20.0	18.7		ug/L		93	69 - 126
Trichloroethene	1.0	U	20.0	15.4		ug/L		77	56 - 124
Vinyl chloride	1.0	U	20.0	21.3		ug/L		106	49 - 136
Surrogate									
	%Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	107		75 - 130						
4-Bromofluorobenzene (Surr)	104		47 - 134						
Toluene-d8 (Surr)	104		69 - 122						
Dibromofluoromethane (Surr)	86		78 - 129						

Lab Sample ID: 240-140444-5 MSD
Matrix: Water
Analysis Batch: 462983

Client Sample ID: MW-37-MSD_111620
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	20.0	18.4		ug/L		92	64 - 132	3	35
cis-1,2-Dichloroethene	1.0	U	20.0	20.1		ug/L		100	68 - 121	6	35
Tetrachloroethene	1.0	U	20.0	18.7		ug/L		94	52 - 129	13	35
trans-1,2-Dichloroethene	1.0	U	20.0	20.6		ug/L		103	69 - 126	10	35
Trichloroethene	1.0	U	20.0	17.6		ug/L		88	56 - 124	13	35
Vinyl chloride	1.0	U	20.0	21.0		ug/L		105	49 - 136	1	35
Surrogate											
	%Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	107		75 - 130								
4-Bromofluorobenzene (Surr)	104		47 - 134								
Toluene-d8 (Surr)	104		69 - 122								
Dibromofluoromethane (Surr)	83		78 - 129								

QC Sample Results

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

Job ID: 240-140444-1

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

Lab Sample ID: MB 240-462582/5
Matrix: Water
Analysis Batch: 462582

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			11/24/20 11:31	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 133					11/24/20 11:31	1

Lab Sample ID: LCS 240-462582/4
Matrix: Water
Analysis Batch: 462582

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	9.63		ug/L		96	80 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	87		70 - 133				

Lab Sample ID: 240-140444-4 MS
Matrix: Water
Analysis Batch: 462582

Client Sample ID: MW-24-MS_111620
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	10.4		ug/L		104	46 - 170
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	98		70 - 133						

Lab Sample ID: 240-140444-4 MSD
Matrix: Water
Analysis Batch: 462582

Client Sample ID: MW-24-MSD_111620
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	10.3		ug/L		103	46 - 170	1	26
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	95		70 - 133								

Lab Sample ID: 240-140444-5 MS
Matrix: Water
Analysis Batch: 462582

Client Sample ID: MW-37-MS_111620
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	10.7		ug/L		107	46 - 170
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	96		70 - 133						

QC Sample Results

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

Job ID: 240-140444-1

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

Lab Sample ID: 240-140444-5 MSD
Matrix: Water
Analysis Batch: 462582

Client Sample ID: MW-37-MSD_111620
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	10.6		ug/L		106	46 - 170	1	26
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	98		70 - 133								

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

QC Association Summary

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

Job ID: 240-140444-1

GC/MS VOA

Analysis Batch: 462582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140444-2	MW-221S_111620	Total/NA	Water	8260B SIM	
240-140444-3	MW-36_111620	Total/NA	Water	8260B SIM	
240-140444-4	MW-24_111620	Total/NA	Water	8260B SIM	
240-140444-5	MW-37_111620	Total/NA	Water	8260B SIM	
MB 240-462582/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-462582/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-140444-4 MS	MW-24-MS_111620	Total/NA	Water	8260B SIM	
240-140444-4 MSD	MW-24-MSD_111620	Total/NA	Water	8260B SIM	
240-140444-5 MS	MW-37-MS_111620	Total/NA	Water	8260B SIM	
240-140444-5 MSD	MW-37-MSD_111620	Total/NA	Water	8260B SIM	

Analysis Batch: 462825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140444-1	TRIP BLANK	Total/NA	Water	8260B	
240-140444-2	MW-221S_111620	Total/NA	Water	8260B	
240-140444-3	MW-36_111620	Total/NA	Water	8260B	
240-140444-4	MW-24_111620	Total/NA	Water	8260B	
MB 240-462825/7	Method Blank	Total/NA	Water	8260B	
LCS 240-462825/4	Lab Control Sample	Total/NA	Water	8260B	
240-140444-4 MS	MW-24-MS_111620	Total/NA	Water	8260B	
240-140444-4 MSD	MW-24-MSD_111620	Total/NA	Water	8260B	

Analysis Batch: 462983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140444-5	MW-37_111620	Total/NA	Water	8260B	
MB 240-462983/11	Method Blank	Total/NA	Water	8260B	
LCS 240-462983/7	Lab Control Sample	Total/NA	Water	8260B	
240-140444-5 MS	MW-37-MS_111620	Total/NA	Water	8260B	
240-140444-5 MSD	MW-37-MSD_111620	Total/NA	Water	8260B	

Lab Chronicle

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

Job ID: 240-140444-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-140444-1

Date Collected: 11/16/20 00:00

Matrix: Water

Date Received: 11/18/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	462825	11/25/20 19:43	LRW	TAL CAN

Client Sample ID: MW-221S_111620

Lab Sample ID: 240-140444-2

Date Collected: 11/16/20 09:35

Matrix: Water

Date Received: 11/18/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	462825	11/25/20 20:08	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	462582	11/24/20 16:58	SAM	TAL CAN

Client Sample ID: MW-36_111620

Lab Sample ID: 240-140444-3

Date Collected: 11/16/20 10:44

Matrix: Water

Date Received: 11/18/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	462825	11/25/20 20:33	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	462582	11/24/20 17:23	SAM	TAL CAN

Client Sample ID: MW-24_111620

Lab Sample ID: 240-140444-4

Date Collected: 11/16/20 11:55

Matrix: Water

Date Received: 11/18/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	462825	11/25/20 20:58	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	462582	11/24/20 17:49	SAM	TAL CAN

Client Sample ID: MW-37_111620

Lab Sample ID: 240-140444-5

Date Collected: 11/16/20 13:15

Matrix: Water

Date Received: 11/18/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	462983	11/27/20 19:48	HMB	TAL CAN
Total/NA	Analysis	8260B SIM		1	462582	11/24/20 19:05	SAM	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 - On Site

Job ID: 240-140444-1

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	06-30-21
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-21
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	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

Chain of Custody Record

TestAmerica Laboratory location: Brighton — 10448 Cilation 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

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

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

Sampler Name: CHRISTINA WEAVER
Method of Shipment/Carrier:
Shipping/Tracking No.:

Analysis Turnaround Time
TAT if different from below:
 3 weeks
 2 weeks
 1 week
 2 days
 1 day
10 day

Sample Identification	Sample Date	Sample Time	Matrix						Containers & Preservatives						Filtered Sample (Y/N)	Composite=C / Grab=C	Analyses						Sample Specific Notes / Special Instructions:			
			Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnOH	Empres	Other:			1-1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B		1,4-Dioxane 8260B SIM		
TRIP BLANK	11/16/20	—	1																							TRIP BLANK "3 VOLS FOR 8260B 3 VOLS FOR 8260B SEM"
MW-221S-111620	11/16/20	0935	6																							" "
MW-36-111620	11/16/20	1044	6																							" "
MW-24-111620	11/16/20	1155	6																							" "
MW-24-MS-111620	11/16/20	1155	6																							" "
MW-24-MSD-111620	11/16/20	1155	6																							" "
MW-37-111620	11/16/20	1315	6																							" "
MW-37-MS-111620	11/16/20	1315	6																							" "
MW-37-MSD-111620	11/16/20	1315	6																							" "

Possible Hazard Identification
 Non-Hazard
 Irritant
 Corrosive
 Flammable
 Toxic
 Unknown

Sample Disposal (A fee may be assessed if not returned to client)
 Return to Client
 Disposal By Lab

Special Instructions/QC Requirements & Comments:
 Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728
 Level IV Reporting requested.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
<i>Christina Weaver</i>	ARCADIS	11/16/2020 / 1430	NOUJ COLO STORAGE	ARCADIS	11/16/2020 / 1430
<i>Julia McClafferty</i>	Arcadis	11/17/20 1140	<i>David Cam</i>	ETA	11/17/2011:40
<i>David Cam</i>	ETA	11/17/20 1700	<i>TA</i>	TA	11-18-20 940

240-140444 Chain of Custody

Barcode: [Barcode]

240-140444 Chain of Custody

Eurofins TestAmerica Canton Sample Receipt Form/Narrative		Login #: <u>140444</u>
Canton Facility		
Client <u>Arcadis</u>	Site Name _____	Cooler unpacked by:
Cooler Received on <u>11-18-20</u>	Opened on <u>11-18-20</u>	
FedEx: 1 st Grd <input checked="" type="radio"/> 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 _____
Packing material used: <u>Bubble</u> Wrap	Foam _____	Plastic Bag _____
COOLANT: <u>Wet Ice</u>	Blue Ice _____	Dry Ice _____
<input type="checkbox"/> See Multiple Cooler Form 1. Cooler temperature upon receipt IR GUN# IR-11 (CF +0.9 °C) Observed Cooler Temp. <u>0.3</u> °C Corrected Cooler Temp. <u>1.2</u> °C IR GUN #IR-12 (CF +0.5 °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 <input checked="" type="radio"/> No <input type="radio"/>	Tests that are not checked for pH by Receiving: VOAs Oil and Grease TOC
-Were the seals on the outside of the cooler(s) signed & dated?	Yes <input type="radio"/> No <input checked="" type="radio"/> NA	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes <input checked="" type="radio"/> No <input type="radio"/> NA	
-Were tamper/custody seals intact and uncompromised?	Yes <input type="radio"/> No <input checked="" type="radio"/> NA	
3. Shippers' packing slip attached to the cooler(s)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
4. Did custody papers accompany the sample(s)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
5. Were the custody papers relinquished & signed in the appropriate place?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
7. Did all bottles arrive in good condition (Unbroken)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
9. For each sample, does the COC specify preservatives <input checked="" type="radio"/> (Y/N), # of containers <input checked="" type="radio"/> (Y/N), and sample type of grab/com <input checked="" type="radio"/> (Y/N)?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
10. Were correct bottle(s) used for the test(s) indicated?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
11. Sufficient quantity received to perform indicated analyses?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
12. Are these work share samples and all listed on the COC?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes <input type="radio"/> No <input checked="" type="radio"/> NA	pH Strip Lot# <u>HC907861</u>
14. Were VOAs on the COC?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
15. Were air bubbles >6 mm in any VOA vials? Larger than this.	Yes <input type="radio"/> No <input checked="" type="radio"/> NA	
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____	Yes <input type="radio"/> No <input checked="" type="radio"/>	
17. Was a LL Hg or Me Hg trip blank present?	Yes <input type="radio"/> No <input checked="" type="radio"/>	
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____		
Concerning _____		
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES <input type="checkbox"/> additional next page		Samples processed by: _____
_____ _____ _____		
19. 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)		
20. 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: _____		