

ANALYTICAL REPORT

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

Laboratory Job ID: 240-110999-1
Client Project/Site: Ford LTP Livonia MI - E203728

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

Attn: Kristoffer Hinskey



Authorized for release by:
4/29/2019 4:50:27 PM

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.testamericainc.com

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

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



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	15
QC Sample Results	16
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 Livonia MI - E203728

Job ID: 240-110999-1

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 Livonia MI - E203728

Job ID: 240-110999-1

Job ID: 240-110999-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP Livonia MI - E203728

Report Number: 240-110999-1

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 4/16/2019 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.6° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples HPT-224A_21-25_041219 (240-110999-1), HPT-224A_16-20_041219 (240-110999-2), HPT-224A_11-15_041219 (240-110999-3), HPT-224A_6-10_041219 (240-110999-4), TRIP BLANK (240-110999-5) and DUP-05 (240-110999-6) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/19/2019 and 04/22/2019.

Dibromofluoromethane (Surr) failed the surrogate recovery criteria high for HPT-224A_21-25_041219 (240-110999-1) and HPT-224A_11-15_041219 (240-110999-3). 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 HPT-224A_21-25_041219 (240-110999-1), HPT-224A_16-20_041219 (240-110999-2), HPT-224A_11-15_041219 (240-110999-3), HPT-224A_6-10_041219 (240-110999-4) and DUP-05 (240-110999-6) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 04/17/2019.

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-110999-1

Job ID: 240-110999-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

The pH is greater than 2 for the following sample: HPT-224A_6-10_041219 (240-110999-4).

No additional 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 Livonia MI - E203728

Job ID: 240-110999-1

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 Livonia MI - E203728

Job ID: 240-110999-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-110999-1	HPT-224A_21-25_041219	Water	04/12/19 10:00	04/16/19 10:00
240-110999-2	HPT-224A_16-20_041219	Water	04/12/19 10:15	04/16/19 10:00
240-110999-3	HPT-224A_11-15_041219	Water	04/12/19 10:30	04/16/19 10:00
240-110999-4	HPT-224A_6-10_041219	Water	04/12/19 10:45	04/16/19 10:00
240-110999-5	TRIP BLANK	Water	04/12/19 00:00	04/16/19 10:00
240-110999-6	DUP-05	Water	04/12/19 00:00	04/16/19 10:00



Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-110999-1

Client Sample ID: HPT-224A_21-25_041219

Lab Sample ID: 240-110999-1

No Detections.

Client Sample ID: HPT-224A_16-20_041219

Lab Sample ID: 240-110999-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.32	J	1.0	0.10	ug/L	1		8260B	Total/NA

Client Sample ID: HPT-224A_11-15_041219

Lab Sample ID: 240-110999-3

No Detections.

Client Sample ID: HPT-224A_6-10_041219

Lab Sample ID: 240-110999-4

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-110999-5

No Detections.

Client Sample ID: DUP-05

Lab Sample ID: 240-110999-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

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

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-110999-1

Client Sample ID: HPT-224A_21-25_041219

Lab Sample ID: 240-110999-1

Date Collected: 04/12/19 10:00

Matrix: Water

Date Received: 04/16/19 10:00

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			04/17/19 13:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 125		04/17/19 13:51	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			04/19/19 20:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			04/19/19 20:00	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/19/19 20:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			04/19/19 20:00	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			04/19/19 20:00	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			04/19/19 20:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		70 - 121		04/19/19 20:00	1
4-Bromofluorobenzene (Surr)	77		59 - 120		04/19/19 20:00	1
Toluene-d8 (Surr)	97		70 - 123		04/19/19 20:00	1
Dibromofluoromethane (Surr)	130	X	75 - 128		04/19/19 20:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-110999-1

Client Sample ID: HPT-224A_16-20_041219

Lab Sample ID: 240-110999-2

Date Collected: 04/12/19 10:15

Matrix: Water

Date Received: 04/16/19 10:00

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	-		04/17/19 14:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 125		04/17/19 14:17	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	-		04/19/19 21:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L	-		04/19/19 21:40	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L	-		04/19/19 21:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L	-		04/19/19 21:40	1
Trichloroethene	0.32	J	1.0	0.10	ug/L	-		04/19/19 21:40	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L	-		04/19/19 21:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 121		04/19/19 21:40	1
4-Bromofluorobenzene (Surr)	70		59 - 120		04/19/19 21:40	1
Toluene-d8 (Surr)	92		70 - 123		04/19/19 21:40	1
Dibromofluoromethane (Surr)	122		75 - 128		04/19/19 21:40	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-110999-1

Client Sample ID: HPT-224A_11-15_041219

Lab Sample ID: 240-110999-3

Date Collected: 04/12/19 10:30

Matrix: Water

Date Received: 04/16/19 10:00

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			04/17/19 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 125		04/17/19 14:42	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			04/22/19 15:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			04/22/19 15:02	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/22/19 15:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			04/22/19 15:02	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			04/22/19 15:02	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			04/22/19 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 121		04/22/19 15:02	1
4-Bromofluorobenzene (Surr)	75		59 - 120		04/22/19 15:02	1
Toluene-d8 (Surr)	97		70 - 123		04/22/19 15:02	1
Dibromofluoromethane (Surr)	130	X	75 - 128		04/22/19 15:02	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-110999-1

Client Sample ID: HPT-224A_6-10_041219

Lab Sample ID: 240-110999-4

Date Collected: 04/12/19 10:45

Matrix: Water

Date Received: 04/16/19 10:00

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	-		04/17/19 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 125		04/17/19 15:08	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	-		04/22/19 15:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L	-		04/22/19 15:24	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L	-		04/22/19 15:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L	-		04/22/19 15:24	1
Trichloroethene	1.0	U	1.0	0.10	ug/L	-		04/22/19 15:24	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L	-		04/22/19 15:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 121		04/22/19 15:24	1
4-Bromofluorobenzene (Surr)	77		59 - 120		04/22/19 15:24	1
Toluene-d8 (Surr)	95		70 - 123		04/22/19 15:24	1
Dibromofluoromethane (Surr)	125		75 - 128		04/22/19 15:24	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-110999-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-110999-5

Date Collected: 04/12/19 00:00

Matrix: Water

Date Received: 04/16/19 10:00

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			04/22/19 15:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			04/22/19 15:46	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/22/19 15:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			04/22/19 15:46	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			04/22/19 15:46	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			04/22/19 15:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 121		04/22/19 15:46	1
4-Bromofluorobenzene (Surr)	77		59 - 120		04/22/19 15:46	1
Toluene-d8 (Surr)	99		70 - 123		04/22/19 15:46	1
Dibromofluoromethane (Surr)	127		75 - 128		04/22/19 15:46	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-110999-1

Client Sample ID: DUP-05

Lab Sample ID: 240-110999-6

Date Collected: 04/12/19 00:00

Matrix: Water

Date Received: 04/16/19 10:00

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			04/17/19 15:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 125		04/17/19 15:33	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			04/22/19 16:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			04/22/19 16:08	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/22/19 16:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			04/22/19 16:08	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			04/22/19 16:08	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			04/22/19 16:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		70 - 121		04/22/19 16:08	1
4-Bromofluorobenzene (Surr)	72		59 - 120		04/22/19 16:08	1
Toluene-d8 (Surr)	94		70 - 123		04/22/19 16:08	1
Dibromofluoromethane (Surr)	125		75 - 128		04/22/19 16:08	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-110999-1

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 (70-121)	BFB (59-120)	TOL (70-123)	DBFM (75-128)
240-110950-E-2 MS	Matrix Spike	95	99	107	115
240-110950-E-2 MSD	Matrix Spike Duplicate	91	98	104	113
240-110973-G-1 MSD	Matrix Spike Duplicate	89	91	104	106
240-110973-H-1 MS	Matrix Spike	98	99	106	115
240-110999-1	HPT-224A_21-25_041219	112	77	97	130 X
240-110999-2	HPT-224A_16-20_041219	105	70	92	122
240-110999-3	HPT-224A_11-15_041219	110	75	97	130 X
240-110999-4	HPT-224A_6-10_041219	109	77	95	125
240-110999-5	TRIP BLANK	110	77	99	127
240-110999-6	DUP-05	107	72	94	125
LCS 240-377344/4	Lab Control Sample	91	100	108	112
LCS 240-377602/4	Lab Control Sample	96	101	111	119
MB 240-377344/6	Method Blank	104	78	98	121
MB 240-377602/35	Method Blank	106	75	96	120

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 (63-125)
240-110996-A-2 MS	Matrix Spike	107
240-110996-A-2 MSD	Matrix Spike Duplicate	103
240-110999-1	HPT-224A_21-25_041219	100
240-110999-2	HPT-224A_16-20_041219	105
240-110999-3	HPT-224A_11-15_041219	104
240-110999-4	HPT-224A_6-10_041219	102
240-110999-6	DUP-05	104
LCS 240-376915/4	Lab Control Sample	99
MB 240-376915/5	Method Blank	101

Surrogate Legend

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

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-110999-1

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

Lab Sample ID: MB 240-377344/6
Matrix: Water
Analysis Batch: 377344

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			04/19/19 12:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			04/19/19 12:18	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/19/19 12:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			04/19/19 12:18	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			04/19/19 12:18	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			04/19/19 12:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 121		04/19/19 12:18	1
4-Bromofluorobenzene (Surr)	78		59 - 120		04/19/19 12:18	1
Toluene-d8 (Surr)	98		70 - 123		04/19/19 12:18	1
Dibromofluoromethane (Surr)	121		75 - 128		04/19/19 12:18	1

Lab Sample ID: LCS 240-377344/4
Matrix: Water
Analysis Batch: 377344

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	10.0		ug/L		100	65 - 139
cis-1,2-Dichloroethene	10.0	11.4		ug/L		114	76 - 128
Tetrachloroethene	10.0	12.0		ug/L		120	74 - 130
trans-1,2-Dichloroethene	10.0	12.5		ug/L		125	78 - 133
Trichloroethene	10.0	9.92		ug/L		99	76 - 125
Vinyl chloride	10.0	10.6		ug/L		106	58 - 143

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 121
4-Bromofluorobenzene (Surr)	100		59 - 120
Toluene-d8 (Surr)	108		70 - 123
Dibromofluoromethane (Surr)	112		75 - 128

Lab Sample ID: 240-110973-G-1 MSD
Matrix: Water
Analysis Batch: 377344

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	8.70		ug/L		87	53 - 140	2	35
cis-1,2-Dichloroethene	1.0	U	10.0	9.74		ug/L		97	64 - 130	1	21
Tetrachloroethene	1.0	U	10.0	9.82		ug/L		98	51 - 136	2	23
trans-1,2-Dichloroethene	1.0	U	10.0	10.9		ug/L		109	68 - 133	2	24
Trichloroethene	0.21	J	10.0	8.73		ug/L		85	55 - 131	3	23
Vinyl chloride	1.0	U	10.0	9.87		ug/L		99	43 - 154	8	29

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		70 - 121
4-Bromofluorobenzene (Surr)	91		59 - 120
Toluene-d8 (Surr)	104		70 - 123

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-110999-1

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

Lab Sample ID: 240-110973-G-1 MSD
Matrix: Water
Analysis Batch: 377344

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	106		75 - 128

Lab Sample ID: 240-110973-H-1 MS
Matrix: Water
Analysis Batch: 377344

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	8.52		ug/L		85	53 - 140
cis-1,2-Dichloroethene	1.0	U	10.0	9.84		ug/L		98	64 - 130
Tetrachloroethene	1.0	U	10.0	9.63		ug/L		96	51 - 136
trans-1,2-Dichloroethene	1.0	U	10.0	11.1		ug/L		111	68 - 133
Trichloroethene	0.21	J	10.0	8.44		ug/L		82	55 - 131
Vinyl chloride	1.0	U	10.0	10.6		ug/L		106	43 - 154

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 121
4-Bromofluorobenzene (Surr)	99		59 - 120
Toluene-d8 (Surr)	106		70 - 123
Dibromofluoromethane (Surr)	115		75 - 128

Lab Sample ID: MB 240-377602/35
Matrix: Water
Analysis Batch: 377602

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			04/22/19 13:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			04/22/19 13:00	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/22/19 13:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			04/22/19 13:00	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			04/22/19 13:00	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			04/22/19 13:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 121		04/22/19 13:00	1
4-Bromofluorobenzene (Surr)	75		59 - 120		04/22/19 13:00	1
Toluene-d8 (Surr)	96		70 - 123		04/22/19 13:00	1
Dibromofluoromethane (Surr)	120		75 - 128		04/22/19 13:00	1

Lab Sample ID: LCS 240-377602/4
Matrix: Water
Analysis Batch: 377602

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	9.97		ug/L		100	65 - 139
cis-1,2-Dichloroethene	10.0	11.5		ug/L		115	76 - 128
Tetrachloroethene	10.0	11.9		ug/L		119	74 - 130
trans-1,2-Dichloroethene	10.0	12.7		ug/L		127	78 - 133
Trichloroethene	10.0	10.2		ug/L		102	76 - 125

Eurofins TestAmerica, Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-110999-1

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

Lab Sample ID: LCS 240-377602/4

Matrix: Water

Analysis Batch: 377602

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	10.0		ug/L		100	58 - 143

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 121
4-Bromofluorobenzene (Surr)	101		59 - 120
Toluene-d8 (Surr)	111		70 - 123
Dibromofluoromethane (Surr)	119		75 - 128

Lab Sample ID: 240-110950-E-2 MS

Matrix: Water

Analysis Batch: 377602

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	10	U	100	82.0		ug/L		82	53 - 140
cis-1,2-Dichloroethene	270		100	359		ug/L		90	64 - 130
Tetrachloroethene	10	U	100	84.8		ug/L		85	51 - 136
trans-1,2-Dichloroethene	120		100	232		ug/L		110	68 - 133
Trichloroethene	42		100	120		ug/L		78	55 - 131
Vinyl chloride	10	U	100	104		ug/L		104	43 - 154

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		70 - 121
4-Bromofluorobenzene (Surr)	99		59 - 120
Toluene-d8 (Surr)	107		70 - 123
Dibromofluoromethane (Surr)	115		75 - 128

Lab Sample ID: 240-110950-E-2 MSD

Matrix: Water

Analysis Batch: 377602

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	10	U	100	91.6		ug/L		92	53 - 140	11	35
cis-1,2-Dichloroethene	270		100	360		ug/L		91	64 - 130	0	21
Tetrachloroethene	10	U	100	100		ug/L		100	51 - 136	17	23
trans-1,2-Dichloroethene	120		100	239		ug/L		117	68 - 133	3	24
Trichloroethene	42		100	128		ug/L		85	55 - 131	6	23
Vinyl chloride	10	U	100	109		ug/L		109	43 - 154	5	29

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 121
4-Bromofluorobenzene (Surr)	98		59 - 120
Toluene-d8 (Surr)	104		70 - 123
Dibromofluoromethane (Surr)	113		75 - 128

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-110999-1

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

Lab Sample ID: MB 240-376915/5
Matrix: Water
Analysis Batch: 376915

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			04/17/19 12:59	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 125					04/17/19 12:59	1

Lab Sample ID: LCS 240-376915/4
Matrix: Water
Analysis Batch: 376915

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	10.5		ug/L		105	59 - 131
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	99		63 - 125				

Lab Sample ID: 240-110996-A-2 MS
Matrix: Water
Analysis Batch: 376915

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	10.8		ug/L		108	52 - 129
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	107		63 - 125						

Lab Sample ID: 240-110996-A-2 MSD
Matrix: Water
Analysis Batch: 376915

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	U	10.0	11.1		ug/L		111	52 - 129	4	13
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	103		63 - 125								

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-110999-1

GC/MS VOA

Analysis Batch: 376915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110999-1	HPT-224A_21-25_041219	Total/NA	Water	8260B SIM	
240-110999-2	HPT-224A_16-20_041219	Total/NA	Water	8260B SIM	
240-110999-3	HPT-224A_11-15_041219	Total/NA	Water	8260B SIM	
240-110999-4	HPT-224A_6-10_041219	Total/NA	Water	8260B SIM	
240-110999-6	DUP-05	Total/NA	Water	8260B SIM	
MB 240-376915/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-376915/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-110996-A-2 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-110996-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 377344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110999-1	HPT-224A_21-25_041219	Total/NA	Water	8260B	
240-110999-2	HPT-224A_16-20_041219	Total/NA	Water	8260B	
MB 240-377344/6	Method Blank	Total/NA	Water	8260B	
LCS 240-377344/4	Lab Control Sample	Total/NA	Water	8260B	
240-110973-G-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
240-110973-H-1 MS	Matrix Spike	Total/NA	Water	8260B	

Analysis Batch: 377602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-110999-3	HPT-224A_11-15_041219	Total/NA	Water	8260B	
240-110999-4	HPT-224A_6-10_041219	Total/NA	Water	8260B	
240-110999-5	TRIP BLANK	Total/NA	Water	8260B	
240-110999-6	DUP-05	Total/NA	Water	8260B	
MB 240-377602/35	Method Blank	Total/NA	Water	8260B	
LCS 240-377602/4	Lab Control Sample	Total/NA	Water	8260B	
240-110950-E-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-110950-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-110999-1

Client Sample ID: HPT-224A_21-25_041219

Lab Sample ID: 240-110999-1

Date Collected: 04/12/19 10:00

Matrix: Water

Date Received: 04/16/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	377344	04/19/19 20:00	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	376915	04/17/19 13:51	SAM	TAL CAN

Client Sample ID: HPT-224A_16-20_041219

Lab Sample ID: 240-110999-2

Date Collected: 04/12/19 10:15

Matrix: Water

Date Received: 04/16/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	377344	04/19/19 21:40	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	376915	04/17/19 14:17	SAM	TAL CAN

Client Sample ID: HPT-224A_11-15_041219

Lab Sample ID: 240-110999-3

Date Collected: 04/12/19 10:30

Matrix: Water

Date Received: 04/16/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	377602	04/22/19 15:02	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	376915	04/17/19 14:42	SAM	TAL CAN

Client Sample ID: HPT-224A_6-10_041219

Lab Sample ID: 240-110999-4

Date Collected: 04/12/19 10:45

Matrix: Water

Date Received: 04/16/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	377602	04/22/19 15:24	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	376915	04/17/19 15:08	SAM	TAL CAN

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-110999-5

Date Collected: 04/12/19 00:00

Matrix: Water

Date Received: 04/16/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	377602	04/22/19 15:46	LEE	TAL CAN

Client Sample ID: DUP-05

Lab Sample ID: 240-110999-6

Date Collected: 04/12/19 00:00

Matrix: Water

Date Received: 04/16/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	377602	04/22/19 16:08	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	376915	04/17/19 15:33	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.

Job ID: 240-110999-1

Project/Site: Ford LTP Livonia MI - E203728

Laboratory: Eurofins TestAmerica, Canton

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

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

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

Eurofins TestAmerica, Canton

Client Information Client Contact: Christina Weaver Phone: (989)-619-5289 Company: ARCADIS U.S. Inc. Address: 28550 Cabot Drive Suite 500 City: Novi State, Zip: MI, 48377 Phone: 248-722-2411 Email: Caitlin.O'Neill@arcadis.com Project Name: Ford LTP Livonia MI - E203631 Site:		Lab PM: DelMonico, Michael E-Mail: michael.delmonico@testamericainc.com Carrier Tracking No(s):		COC No: 240-59392-253416 Page: 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): 14 (10 DAY STD) PO #: M1001318.0002.00002 WO #: Cadena #: E203631 Project #: 24015353 SSOW#:		Analysis Requested			
Sample Identification HPT-224A 21-25-041219 HPT-224A 16-20-041219 HPT-224A 11-15-041219 HPT-224A 6-10-041219 Tap Blank DUP-05		Sample Date 4/12/19 4/12/19 4/12/19 4/12/19 4/12/19 4/12/19		Sample Time 1000 1015 1030 1045 — —	
Sample Type (C=Comp, G=grab) 6 6 6 6 — 6		Matrix (W=water, S=solid, D=wastebill, I=issue, A=air) Water Water Water Water Water Water Water Water Water Water		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Field Filtered Sample (Yes or No) Yes Yes Yes Yes — Yes		Perform MS/MSD (Yes or No) A F A A — A		Total Number of Containers 6 6 6 6 1 6	
Special Instructions/Note: 8260B, 8260B SIM 8260B, MI - VOCs (Short List) 8260B - VOCs (Short List)		Special Instructions/Note: Special Instructions/OC Requirements: Submit all results through cardina at jim.ford@arcadis.com #E 203631			
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant Deliverable Requested: I, II, III (V) Other (specify)		Sample Disposal (A): <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Method of Shipment: 240-110999 Chain of Custody			
Empty Kit Relinquished by: Relinquished by: [Signature] Date: 4/12/19 1900 Company: Arcadis		Relinquished by: [Signature] Date: 4/15/19 0900 Company: Arcadis			
Relinquished by: [Signature] Date: 4-15-19 950 Company: [Signature]		Relinquished by: [Signature] Date: 4/16/19 900 Company: [Signature]			
Custody Seal No.: Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks: 1000			



TestAmerica Canton Sample Receipt Form/Narrative

Login # : 110999

Canton Facility

Client Arcadis Site Name Cooler unpacked by:
Cooler Received on 4/16/19 Opened on 4/16/19
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

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

TestAmerica Cooler # 72 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 IR GUN# IR-8 (CF -0.2 °C) Observed Cooler Temp. 1.8 °C Corrected Cooler Temp. 1.6 °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
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
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC984738
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 # N/A 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: JR

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: