

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-75677-1
Client Project/Site: MadisonKipp WI001368.0018.00002

For:
ARCADIS U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee, Wisconsin 53202

Attn: Tim Alessi



Authorized for release by:
4/29/2014 11:47:35 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Job ID: 500-75677-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-75677-1

Comments

No additional comments.

Receipt

The samples were received on 4/24/2014 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

GC/MS VOA

Method(s) 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-17 (500-75677-3). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Metals

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

Field Service / Mobile Lab

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



Detection Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Client Sample ID: MW-25D

Lab Sample ID: 500-75677-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.3		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-25D2

Lab Sample ID: 500-75677-2

No Detections.

Client Sample ID: MW-17

Lab Sample ID: 500-75677-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.1	J	2.0	0.40	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	2.7		2.0	0.24	ug/L	2		8260B	Total/NA
Trichloroethene	51		1.0	0.38	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	970		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: MW-26S

Lab Sample ID: 500-75677-4

No Detections.

Client Sample ID: MW-1

Lab Sample ID: 500-75677-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	25		1.0	0.12	ug/L	1		8260B	Total/NA
Tetrachloroethene	19		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	28		0.50	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: MW-3S

Lab Sample ID: 500-75677-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	32		2.5	0.44	ug/L	1		6020	Total Recoverable
Chromium	86		5.0	0.63	ug/L	1		6020	Total Recoverable
Copper	28		2.0	0.61	ug/L	1		6020	Total Recoverable
Iron	530		100	12	ug/L	1		6020	Total Recoverable
Lead	0.16	J	0.50	0.091	ug/L	1		6020	Total Recoverable
Manganese	130000		250	76	ug/L	100		6020	Total Recoverable
Nickel	5.0	B	2.0	0.69	ug/L	1		6020	Total Recoverable
Selenium	9.0		2.5	0.69	ug/L	1		6020	Total Recoverable
Silver	0.43	J	0.50	0.062	ug/L	1		6020	Total Recoverable
Zinc	93		20	5.9	ug/L	1		6020	Total Recoverable
Barium	0.52	J	2.5	0.44	ug/L	1		6020	Dissolved
Chromium	87		5.0	0.63	ug/L	1		6020	Dissolved
Copper	0.83	J	2.0	0.61	ug/L	1		6020	Dissolved
Manganese	110000		250	76	ug/L	100		6020	Dissolved
Nickel	0.98	J B	2.0	0.69	ug/L	1		6020	Dissolved

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Client Sample ID: MW-3S (Continued)

Lab Sample ID: 500-75677-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	7.6		2.5	0.69	ug/L	1		6020	Dissolved
Silver	0.41	J	0.50	0.062	ug/L	1		6020	Dissolved

Client Sample ID: MW-18S

Lab Sample ID: 500-75677-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.38	J	0.50	0.074	ug/L	1		8260B	Total/NA
Chloroform	1.4		1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	21		1.0	0.12	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.3		1.0	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	43		0.50	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	520		5.0	0.85	ug/L	5		8260B	Total/NA
Arsenic	1.1		1.0	0.23	ug/L	1		6020	Total Recoverable
Barium	140		2.5	0.44	ug/L	1		6020	Total Recoverable
Copper	10		2.0	0.61	ug/L	1		6020	Total Recoverable
Iron	1000		100	12	ug/L	1		6020	Total Recoverable
Lead	4.7		0.50	0.091	ug/L	1		6020	Total Recoverable
Manganese	2000		2.5	0.76	ug/L	1		6020	Total Recoverable
Nickel	4.7	B	2.0	0.69	ug/L	1		6020	Total Recoverable
Selenium	0.76	J	2.5	0.69	ug/L	1		6020	Total Recoverable
Zinc	29		20	5.9	ug/L	1		6020	Total Recoverable
Arsenic	1.2		1.0	0.23	ug/L	1		6020	Dissolved
Barium	130		2.5	0.44	ug/L	1		6020	Dissolved
Copper	2.5		2.0	0.61	ug/L	1		6020	Dissolved
Iron	600		100	12	ug/L	1		6020	Dissolved
Lead	0.18	J	0.50	0.091	ug/L	1		6020	Dissolved
Manganese	1900		2.5	0.76	ug/L	1		6020	Dissolved
Nickel	4.6	B	2.0	0.69	ug/L	1		6020	Dissolved
Selenium	0.71	J	2.5	0.69	ug/L	1		6020	Dissolved
Zinc	11	J	20	5.9	ug/L	1		6020	Dissolved

Client Sample ID: Trip Blank

Lab Sample ID: 500-75677-8

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
6020	Metals (ICP/MS)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-75677-1	MW-25D	Water	04/21/14 12:00	04/24/14 10:10
500-75677-2	MW-25D2	Water	04/21/14 13:08	04/24/14 10:10
500-75677-3	MW-17	Water	04/22/14 10:55	04/24/14 10:10
500-75677-4	MW-26S	Water	04/22/14 13:00	04/24/14 10:10
500-75677-5	MW-1	Water	04/22/14 14:25	04/24/14 10:10
500-75677-6	MW-3S	Water	04/22/14 15:45	04/24/14 10:10
500-75677-7	MW-18S	Water	04/22/14 16:52	04/24/14 10:10
500-75677-8	Trip Blank	Water	04/22/14 00:00	04/24/14 10:10



Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Client Sample ID: MW-25D

Lab Sample ID: 500-75677-1

Date Collected: 04/21/14 12:00

Matrix: Water

Date Received: 04/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			04/26/14 19:10	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/26/14 19:10	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/26/14 19:10	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/26/14 19:10	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/26/14 19:10	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/26/14 19:10	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/26/14 19:10	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/26/14 19:10	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/26/14 19:10	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/26/14 19:10	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/26/14 19:10	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/26/14 19:10	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/26/14 19:10	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/26/14 19:10	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/26/14 19:10	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/26/14 19:10	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/26/14 19:10	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/26/14 19:10	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/26/14 19:10	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/26/14 19:10	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/26/14 19:10	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/26/14 19:10	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/26/14 19:10	1
Benzene	<0.074		0.50	0.074	ug/L			04/26/14 19:10	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/26/14 19:10	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/26/14 19:10	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/26/14 19:10	1
Bromoform	<0.28		1.0	0.28	ug/L			04/26/14 19:10	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/26/14 19:10	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/26/14 19:10	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/26/14 19:10	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/26/14 19:10	1
Chloroform	<0.20		1.0	0.20	ug/L			04/26/14 19:10	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/26/14 19:10	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/26/14 19:10	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/26/14 19:10	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/26/14 19:10	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/26/14 19:10	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/26/14 19:10	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/26/14 19:10	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/26/14 19:10	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/26/14 19:10	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/26/14 19:10	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/26/14 19:10	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/26/14 19:10	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/26/14 19:10	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/26/14 19:10	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/26/14 19:10	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/26/14 19:10	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Client Sample ID: MW-25D

Lab Sample ID: 500-75677-1

Date Collected: 04/21/14 12:00

Matrix: Water

Date Received: 04/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/26/14 19:10	1
Styrene	<0.10		1.0	0.10	ug/L			04/26/14 19:10	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/26/14 19:10	1
Tetrachloroethene	1.3		1.0	0.17	ug/L			04/26/14 19:10	1
Toluene	<0.11		0.50	0.11	ug/L			04/26/14 19:10	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/26/14 19:10	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/26/14 19:10	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/26/14 19:10	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/26/14 19:10	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/26/14 19:10	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/26/14 19:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 125					04/26/14 19:10	1
4-Bromofluorobenzene (Surr)	87		75 - 120					04/26/14 19:10	1
Dibromofluoromethane	91		75 - 120					04/26/14 19:10	1
Toluene-d8 (Surr)	94		75 - 120					04/26/14 19:10	1

Client Sample ID: MW-25D2

Lab Sample ID: 500-75677-2

Date Collected: 04/21/14 13:08

Matrix: Water

Date Received: 04/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			04/26/14 19:38	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/26/14 19:38	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/26/14 19:38	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/26/14 19:38	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/26/14 19:38	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/26/14 19:38	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/26/14 19:38	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/26/14 19:38	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/26/14 19:38	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/26/14 19:38	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/26/14 19:38	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/26/14 19:38	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/26/14 19:38	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/26/14 19:38	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/26/14 19:38	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/26/14 19:38	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/26/14 19:38	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/26/14 19:38	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/26/14 19:38	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/26/14 19:38	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/26/14 19:38	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/26/14 19:38	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/26/14 19:38	1
Benzene	<0.074		0.50	0.074	ug/L			04/26/14 19:38	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/26/14 19:38	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/26/14 19:38	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Client Sample ID: MW-25D2

Lab Sample ID: 500-75677-2

Date Collected: 04/21/14 13:08

Matrix: Water

Date Received: 04/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/26/14 19:38	1
Bromoform	<0.28		1.0	0.28	ug/L			04/26/14 19:38	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/26/14 19:38	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/26/14 19:38	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/26/14 19:38	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/26/14 19:38	1
Chloroform	<0.20		1.0	0.20	ug/L			04/26/14 19:38	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/26/14 19:38	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/26/14 19:38	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/26/14 19:38	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/26/14 19:38	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/26/14 19:38	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/26/14 19:38	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/26/14 19:38	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/26/14 19:38	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/26/14 19:38	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/26/14 19:38	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/26/14 19:38	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/26/14 19:38	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/26/14 19:38	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/26/14 19:38	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/26/14 19:38	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/26/14 19:38	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/26/14 19:38	1
Styrene	<0.10		1.0	0.10	ug/L			04/26/14 19:38	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/26/14 19:38	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/26/14 19:38	1
Toluene	<0.11		0.50	0.11	ug/L			04/26/14 19:38	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/26/14 19:38	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/26/14 19:38	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/26/14 19:38	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/26/14 19:38	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/26/14 19:38	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/26/14 19:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 125		04/26/14 19:38	1
4-Bromofluorobenzene (Surr)	91		75 - 120		04/26/14 19:38	1
Dibromofluoromethane	90		75 - 120		04/26/14 19:38	1
Toluene-d8 (Surr)	95		75 - 120		04/26/14 19:38	1

Client Sample ID: MW-17

Lab Sample ID: 500-75677-3

Date Collected: 04/22/14 10:55

Matrix: Water

Date Received: 04/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			04/26/14 20:05	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			04/26/14 20:05	2
1,1,1,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			04/26/14 20:05	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Client Sample ID: MW-17

Lab Sample ID: 500-75677-3

Date Collected: 04/22/14 10:55

Matrix: Water

Date Received: 04/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			04/26/14 20:05	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			04/26/14 20:05	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			04/26/14 20:05	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			04/26/14 20:05	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			04/26/14 20:05	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			04/26/14 20:05	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			04/26/14 20:05	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			04/26/14 20:05	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			04/26/14 20:05	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			04/26/14 20:05	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			04/26/14 20:05	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			04/26/14 20:05	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			04/26/14 20:05	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			04/26/14 20:05	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/26/14 20:05	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			04/26/14 20:05	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/26/14 20:05	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			04/26/14 20:05	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			04/26/14 20:05	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			04/26/14 20:05	2
Benzene	<0.15		1.0	0.15	ug/L			04/26/14 20:05	2
Bromobenzene	<0.50		2.0	0.50	ug/L			04/26/14 20:05	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			04/26/14 20:05	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			04/26/14 20:05	2
Bromoform	<0.56		2.0	0.56	ug/L			04/26/14 20:05	2
Bromomethane	<0.62		2.0	0.62	ug/L			04/26/14 20:05	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			04/26/14 20:05	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			04/26/14 20:05	2
Chloroethane	<0.68		2.0	0.68	ug/L			04/26/14 20:05	2
Chloroform	1.1 J		2.0	0.40	ug/L			04/26/14 20:05	2
Chloromethane	<0.36		2.0	0.36	ug/L			04/26/14 20:05	2
cis-1,2-Dichloroethene	2.7		2.0	0.24	ug/L			04/26/14 20:05	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			04/26/14 20:05	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			04/26/14 20:05	2
Dibromomethane	<0.66		2.0	0.66	ug/L			04/26/14 20:05	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			04/26/14 20:05	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			04/26/14 20:05	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			04/26/14 20:05	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			04/26/14 20:05	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			04/26/14 20:05	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			04/26/14 20:05	2
Methylene Chloride	<1.4		10	1.4	ug/L			04/26/14 20:05	2
Naphthalene	<0.32		2.0	0.32	ug/L			04/26/14 20:05	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			04/26/14 20:05	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			04/26/14 20:05	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			04/26/14 20:05	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			04/26/14 20:05	2
Styrene	<0.20		2.0	0.20	ug/L			04/26/14 20:05	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			04/26/14 20:05	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Client Sample ID: MW-17

Lab Sample ID: 500-75677-3

Date Collected: 04/22/14 10:55

Matrix: Water

Date Received: 04/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.22		1.0	0.22	ug/L			04/26/14 20:05	2
trans-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			04/26/14 20:05	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			04/26/14 20:05	2
Trichloroethene	51		1.0	0.38	ug/L			04/26/14 20:05	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			04/26/14 20:05	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/26/14 20:05	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			04/26/14 20:05	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125		04/26/14 20:05	2
4-Bromofluorobenzene (Surr)	89		75 - 120		04/26/14 20:05	2
Dibromofluoromethane	91		75 - 120		04/26/14 20:05	2
Toluene-d8 (Surr)	94		75 - 120		04/26/14 20:05	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	970		20	3.4	ug/L			04/26/14 20:33	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 125		04/26/14 20:33	20
4-Bromofluorobenzene (Surr)	91		75 - 120		04/26/14 20:33	20
Dibromofluoromethane	90		75 - 120		04/26/14 20:33	20
Toluene-d8 (Surr)	92		75 - 120		04/26/14 20:33	20

Client Sample ID: MW-26S

Lab Sample ID: 500-75677-4

Date Collected: 04/22/14 13:00

Matrix: Water

Date Received: 04/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			04/26/14 21:00	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/26/14 21:00	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/26/14 21:00	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/26/14 21:00	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/26/14 21:00	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/26/14 21:00	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/26/14 21:00	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/26/14 21:00	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/26/14 21:00	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/26/14 21:00	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/26/14 21:00	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/26/14 21:00	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/26/14 21:00	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/26/14 21:00	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/26/14 21:00	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/26/14 21:00	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/26/14 21:00	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/26/14 21:00	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/26/14 21:00	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/26/14 21:00	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Client Sample ID: MW-26S

Lab Sample ID: 500-75677-4

Date Collected: 04/22/14 13:00

Matrix: Water

Date Received: 04/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/26/14 21:00	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/26/14 21:00	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/26/14 21:00	1
Benzene	<0.074		0.50	0.074	ug/L			04/26/14 21:00	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/26/14 21:00	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/26/14 21:00	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/26/14 21:00	1
Bromoform	<0.28		1.0	0.28	ug/L			04/26/14 21:00	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/26/14 21:00	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/26/14 21:00	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/26/14 21:00	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/26/14 21:00	1
Chloroform	<0.20		1.0	0.20	ug/L			04/26/14 21:00	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/26/14 21:00	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/26/14 21:00	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/26/14 21:00	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/26/14 21:00	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/26/14 21:00	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/26/14 21:00	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/26/14 21:00	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/26/14 21:00	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/26/14 21:00	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/26/14 21:00	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/26/14 21:00	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/26/14 21:00	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/26/14 21:00	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/26/14 21:00	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/26/14 21:00	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/26/14 21:00	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/26/14 21:00	1
Styrene	<0.10		1.0	0.10	ug/L			04/26/14 21:00	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/26/14 21:00	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/26/14 21:00	1
Toluene	<0.11		0.50	0.11	ug/L			04/26/14 21:00	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/26/14 21:00	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/26/14 21:00	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/26/14 21:00	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/26/14 21:00	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/26/14 21:00	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/26/14 21:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 125		04/26/14 21:00	1
4-Bromofluorobenzene (Surr)	92		75 - 120		04/26/14 21:00	1
Dibromofluoromethane	92		75 - 120		04/26/14 21:00	1
Toluene-d8 (Surr)	94		75 - 120		04/26/14 21:00	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Client Sample ID: MW-1

Lab Sample ID: 500-75677-5

Date Collected: 04/22/14 14:25

Matrix: Water

Date Received: 04/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			04/28/14 12:03	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/28/14 12:03	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/28/14 12:03	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/28/14 12:03	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/28/14 12:03	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/28/14 12:03	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/28/14 12:03	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/28/14 12:03	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/28/14 12:03	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/28/14 12:03	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/28/14 12:03	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/28/14 12:03	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/28/14 12:03	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/28/14 12:03	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/28/14 12:03	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/28/14 12:03	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/28/14 12:03	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/28/14 12:03	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/28/14 12:03	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/28/14 12:03	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/28/14 12:03	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/28/14 12:03	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/28/14 12:03	1
Benzene	<0.074		0.50	0.074	ug/L			04/28/14 12:03	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/28/14 12:03	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/28/14 12:03	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/28/14 12:03	1
Bromoform	<0.28		1.0	0.28	ug/L			04/28/14 12:03	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/28/14 12:03	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/28/14 12:03	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/28/14 12:03	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/28/14 12:03	1
Chloroform	<0.20		1.0	0.20	ug/L			04/28/14 12:03	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/28/14 12:03	1
cis-1,2-Dichloroethene	25		1.0	0.12	ug/L			04/28/14 12:03	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/28/14 12:03	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/28/14 12:03	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/28/14 12:03	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/28/14 12:03	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/28/14 12:03	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/28/14 12:03	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/28/14 12:03	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/28/14 12:03	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/28/14 12:03	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/28/14 12:03	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/28/14 12:03	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/28/14 12:03	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/28/14 12:03	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/28/14 12:03	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Client Sample ID: MW-1

Lab Sample ID: 500-75677-5

Date Collected: 04/22/14 14:25

Matrix: Water

Date Received: 04/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/28/14 12:03	1
Styrene	<0.10		1.0	0.10	ug/L			04/28/14 12:03	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/28/14 12:03	1
Tetrachloroethene	19		1.0	0.17	ug/L			04/28/14 12:03	1
Toluene	<0.11		0.50	0.11	ug/L			04/28/14 12:03	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/28/14 12:03	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/28/14 12:03	1
Trichloroethene	28		0.50	0.19	ug/L			04/28/14 12:03	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/28/14 12:03	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/28/14 12:03	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/28/14 12:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 125					04/28/14 12:03	1
4-Bromofluorobenzene (Surr)	100		75 - 120					04/28/14 12:03	1
Dibromofluoromethane	90		75 - 120					04/28/14 12:03	1
Toluene-d8 (Surr)	96		75 - 120					04/28/14 12:03	1

Client Sample ID: MW-3S

Lab Sample ID: 500-75677-6

Date Collected: 04/22/14 15:45

Matrix: Water

Date Received: 04/24/14 10:10

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		04/24/14 15:00	04/28/14 10:39	1
Barium	32		2.5	0.44	ug/L		04/24/14 15:00	04/25/14 16:24	1
Cadmium	<0.15		0.50	0.15	ug/L		04/24/14 15:00	04/25/14 16:24	1
Chromium	86		5.0	0.63	ug/L		04/24/14 15:00	04/25/14 16:24	1
Copper	28		2.0	0.61	ug/L		04/24/14 15:00	04/25/14 16:24	1
Iron	530		100	12	ug/L		04/24/14 15:00	04/25/14 16:24	1
Lead	0.16 J		0.50	0.091	ug/L		04/24/14 15:00	04/25/14 16:24	1
Manganese	130000		250	76	ug/L		04/24/14 15:00	04/28/14 10:42	100
Nickel	5.0 B		2.0	0.69	ug/L		04/24/14 15:00	04/25/14 16:24	1
Selenium	9.0		2.5	0.69	ug/L		04/24/14 15:00	04/25/14 16:24	1
Silver	0.43 J		0.50	0.062	ug/L		04/24/14 15:00	04/25/14 16:24	1
Zinc	93		20	5.9	ug/L		04/24/14 15:00	04/25/14 16:24	1

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		04/24/14 15:00	04/28/14 10:46	1
Barium	0.52 J		2.5	0.44	ug/L		04/24/14 15:00	04/25/14 16:27	1
Cadmium	<0.15		0.50	0.15	ug/L		04/24/14 15:00	04/25/14 16:27	1
Chromium	87		5.0	0.63	ug/L		04/24/14 15:00	04/25/14 16:27	1
Copper	0.83 J		2.0	0.61	ug/L		04/24/14 15:00	04/25/14 16:27	1
Iron	<12		100	12	ug/L		04/24/14 15:00	04/25/14 16:27	1
Lead	<0.091		0.50	0.091	ug/L		04/24/14 15:00	04/25/14 16:27	1
Manganese	110000		250	76	ug/L		04/24/14 15:00	04/28/14 10:49	100
Nickel	0.98 J B		2.0	0.69	ug/L		04/24/14 15:00	04/25/14 16:27	1
Selenium	7.6		2.5	0.69	ug/L		04/24/14 15:00	04/25/14 16:27	1
Silver	0.41 J		0.50	0.062	ug/L		04/24/14 15:00	04/25/14 16:27	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Client Sample ID: MW-3S

Lab Sample ID: 500-75677-6

Date Collected: 04/22/14 15:45

Matrix: Water

Date Received: 04/24/14 10:10

Method: 6020 - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<5.9		20	5.9	ug/L		04/24/14 15:00	04/25/14 16:27	1

Client Sample ID: MW-18S

Lab Sample ID: 500-75677-7

Date Collected: 04/22/14 16:52

Matrix: Water

Date Received: 04/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			04/28/14 11:12	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/28/14 11:12	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/28/14 11:12	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/28/14 11:12	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/28/14 11:12	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/28/14 11:12	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/28/14 11:12	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/28/14 11:12	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/28/14 11:12	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/28/14 11:12	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/28/14 11:12	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/28/14 11:12	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/28/14 11:12	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/28/14 11:12	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/28/14 11:12	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/28/14 11:12	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/28/14 11:12	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/28/14 11:12	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/28/14 11:12	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/28/14 11:12	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/28/14 11:12	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/28/14 11:12	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/28/14 11:12	1
Benzene	0.38	J	0.50	0.074	ug/L			04/28/14 11:12	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/28/14 11:12	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/28/14 11:12	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/28/14 11:12	1
Bromoform	<0.28		1.0	0.28	ug/L			04/28/14 11:12	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/28/14 11:12	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/28/14 11:12	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/28/14 11:12	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/28/14 11:12	1
Chloroform	1.4		1.0	0.20	ug/L			04/28/14 11:12	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/28/14 11:12	1
cis-1,2-Dichloroethene	21		1.0	0.12	ug/L			04/28/14 11:12	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/28/14 11:12	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/28/14 11:12	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/28/14 11:12	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/28/14 11:12	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/28/14 11:12	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/28/14 11:12	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/28/14 11:12	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Client Sample ID: MW-18S

Lab Sample ID: 500-75677-7

Date Collected: 04/22/14 16:52

Matrix: Water

Date Received: 04/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/28/14 11:12	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/28/14 11:12	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/28/14 11:12	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/28/14 11:12	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/28/14 11:12	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/28/14 11:12	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/28/14 11:12	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/28/14 11:12	1
Styrene	<0.10		1.0	0.10	ug/L			04/28/14 11:12	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/28/14 11:12	1
Toluene	<0.11		0.50	0.11	ug/L			04/28/14 11:12	1
trans-1,2-Dichloroethene	1.3		1.0	0.25	ug/L			04/28/14 11:12	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/28/14 11:12	1
Trichloroethene	43		0.50	0.19	ug/L			04/28/14 11:12	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/28/14 11:12	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/28/14 11:12	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/28/14 11:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 125		04/28/14 11:12	1
4-Bromofluorobenzene (Surr)	99		75 - 120		04/28/14 11:12	1
Dibromofluoromethane	88		75 - 120		04/28/14 11:12	1
Toluene-d8 (Surr)	97		75 - 120		04/28/14 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	520		5.0	0.85	ug/L			04/28/14 11:37	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 125		04/28/14 11:37	5
4-Bromofluorobenzene (Surr)	97		75 - 120		04/28/14 11:37	5
Dibromofluoromethane	91		75 - 120		04/28/14 11:37	5
Toluene-d8 (Surr)	96		75 - 120		04/28/14 11:37	5

Method: 6020 - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.1		1.0	0.23	ug/L		04/24/14 15:00	04/28/14 10:53	1
Barium	140		2.5	0.44	ug/L		04/24/14 15:00	04/25/14 16:31	1
Cadmium	<0.15		0.50	0.15	ug/L		04/24/14 15:00	04/25/14 16:31	1
Chromium	<0.63		5.0	0.63	ug/L		04/24/14 15:00	04/25/14 16:31	1
Copper	10		2.0	0.61	ug/L		04/24/14 15:00	04/25/14 16:31	1
Iron	1000		100	12	ug/L		04/24/14 15:00	04/25/14 16:31	1
Lead	4.7		0.50	0.091	ug/L		04/24/14 15:00	04/25/14 16:31	1
Manganese	2000		2.5	0.76	ug/L		04/24/14 15:00	04/25/14 16:31	1
Nickel	4.7 B		2.0	0.69	ug/L		04/24/14 15:00	04/25/14 16:31	1
Selenium	0.76 J		2.5	0.69	ug/L		04/24/14 15:00	04/25/14 16:31	1
Silver	<0.062		0.50	0.062	ug/L		04/24/14 15:00	04/25/14 16:31	1
Zinc	29		20	5.9	ug/L		04/24/14 15:00	04/25/14 16:31	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Client Sample ID: MW-18S

Lab Sample ID: 500-75677-7

Date Collected: 04/22/14 16:52

Matrix: Water

Date Received: 04/24/14 10:10

Method: 6020 - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.2		1.0	0.23	ug/L		04/24/14 15:00	04/28/14 10:56	1
Barium	130		2.5	0.44	ug/L		04/24/14 15:00	04/25/14 16:34	1
Cadmium	<0.15		0.50	0.15	ug/L		04/24/14 15:00	04/25/14 16:34	1
Chromium	<0.63		5.0	0.63	ug/L		04/24/14 15:00	04/25/14 16:34	1
Copper	2.5		2.0	0.61	ug/L		04/24/14 15:00	04/25/14 16:34	1
Iron	600		100	12	ug/L		04/24/14 15:00	04/25/14 16:34	1
Lead	0.18	J	0.50	0.091	ug/L		04/24/14 15:00	04/25/14 16:34	1
Manganese	1900		2.5	0.76	ug/L		04/24/14 15:00	04/25/14 16:34	1
Nickel	4.6	B	2.0	0.69	ug/L		04/24/14 15:00	04/25/14 16:34	1
Selenium	0.71	J	2.5	0.69	ug/L		04/24/14 15:00	04/25/14 16:34	1
Silver	<0.062		0.50	0.062	ug/L		04/24/14 15:00	04/25/14 16:34	1
Zinc	11	J	20	5.9	ug/L		04/24/14 15:00	04/25/14 16:34	1

Client Sample ID: Trip Blank

Lab Sample ID: 500-75677-8

Date Collected: 04/22/14 00:00

Matrix: Water

Date Received: 04/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			04/28/14 10:46	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/28/14 10:46	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/28/14 10:46	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/28/14 10:46	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/28/14 10:46	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/28/14 10:46	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/28/14 10:46	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/28/14 10:46	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/28/14 10:46	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/28/14 10:46	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/28/14 10:46	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/28/14 10:46	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/28/14 10:46	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/28/14 10:46	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/28/14 10:46	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/28/14 10:46	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/28/14 10:46	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/28/14 10:46	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/28/14 10:46	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/28/14 10:46	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/28/14 10:46	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/28/14 10:46	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/28/14 10:46	1
Benzene	<0.074		0.50	0.074	ug/L			04/28/14 10:46	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/28/14 10:46	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/28/14 10:46	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/28/14 10:46	1
Bromoform	<0.28		1.0	0.28	ug/L			04/28/14 10:46	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/28/14 10:46	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/28/14 10:46	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/28/14 10:46	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-75677-8

Date Collected: 04/22/14 00:00

Matrix: Water

Date Received: 04/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<0.34		1.0	0.34	ug/L			04/28/14 10:46	1
Chloroform	<0.20		1.0	0.20	ug/L			04/28/14 10:46	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/28/14 10:46	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/28/14 10:46	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/28/14 10:46	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/28/14 10:46	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/28/14 10:46	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/28/14 10:46	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/28/14 10:46	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/28/14 10:46	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/28/14 10:46	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/28/14 10:46	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/28/14 10:46	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/28/14 10:46	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/28/14 10:46	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/28/14 10:46	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/28/14 10:46	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/28/14 10:46	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/28/14 10:46	1
Styrene	<0.10		1.0	0.10	ug/L			04/28/14 10:46	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/28/14 10:46	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/28/14 10:46	1
Toluene	<0.11		0.50	0.11	ug/L			04/28/14 10:46	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/28/14 10:46	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/28/14 10:46	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/28/14 10:46	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/28/14 10:46	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/28/14 10:46	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/28/14 10:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125		04/28/14 10:46	1
4-Bromofluorobenzene (Surr)	101		75 - 120		04/28/14 10:46	1
Dibromofluoromethane	89		75 - 120		04/28/14 10:46	1
Toluene-d8 (Surr)	100		75 - 120		04/28/14 10:46	1

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

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.
F1	MS and/or MSD Recovery exceeds the control limits

Metals

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.
B	Compound was found in the blank and sample.

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

QC Association Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

GC/MS VOA

Analysis Batch: 233432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-75677-1	MW-25D	Total/NA	Water	8260B	
500-75677-2	MW-25D2	Total/NA	Water	8260B	
500-75677-3	MW-17	Total/NA	Water	8260B	
500-75677-3 - DL	MW-17	Total/NA	Water	8260B	
500-75677-4	MW-26S	Total/NA	Water	8260B	
LCS 500-233432/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-233432/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 233526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-75677-5	MW-1	Total/NA	Water	8260B	
500-75677-5 MS	MW-1	Total/NA	Water	8260B	
500-75677-5 MSD	MW-1	Total/NA	Water	8260B	
500-75677-7	MW-18S	Total/NA	Water	8260B	
500-75677-7 - DL	MW-18S	Total/NA	Water	8260B	
500-75677-8	Trip Blank	Total/NA	Water	8260B	
LCS 500-233526/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-233526/6	Method Blank	Total/NA	Water	8260B	

Metals

Prep Batch: 233165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-75677-6	MW-3S	Dissolved	Water	3005A	
500-75677-6	MW-3S	Total Recoverable	Water	3005A	
500-75677-7	MW-18S	Dissolved	Water	3005A	
500-75677-7	MW-18S	Total Recoverable	Water	3005A	
LCS 500-233165/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 500-233165/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 233548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-75677-6	MW-3S	Dissolved	Water	6020	233165
500-75677-6	MW-3S	Total Recoverable	Water	6020	233165
500-75677-7	MW-18S	Dissolved	Water	6020	233165
500-75677-7	MW-18S	Total Recoverable	Water	6020	233165
LCS 500-233165/2-A	Lab Control Sample	Total Recoverable	Water	6020	233165
MB 500-233165/1-A	Method Blank	Total Recoverable	Water	6020	233165

Analysis Batch: 233624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-75677-6	MW-3S	Dissolved	Water	6020	233165
500-75677-6	MW-3S	Dissolved	Water	6020	233165
500-75677-6	MW-3S	Total Recoverable	Water	6020	233165
500-75677-6	MW-3S	Total Recoverable	Water	6020	233165
500-75677-7	MW-18S	Dissolved	Water	6020	233165
500-75677-7	MW-18S	Total Recoverable	Water	6020	233165
LCS 500-233165/2-A	Lab Control Sample	Total Recoverable	Water	6020	233165
MB 500-233165/1-A	Method Blank	Total Recoverable	Water	6020	233165

Surrogate Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-125)	BFB (75-120)	DBFM (75-120)	TOL (75-120)
500-75677-1	MW-25D	102	87	91	94
500-75677-2	MW-25D2	101	91	90	95
500-75677-3	MW-17	100	89	91	94
500-75677-3 - DL	MW-17	101	91	90	92
500-75677-4	MW-26S	102	92	92	94
500-75677-5	MW-1	101	100	90	96
500-75677-5 MS	MW-1	103	97	96	99
500-75677-5 MSD	MW-1	104	101	94	96
500-75677-7	MW-18S	99	99	88	97
500-75677-7 - DL	MW-18S	102	97	91	96
500-75677-8	Trip Blank	100	101	89	100
LCS 500-233432/4	Lab Control Sample	98	89	93	94
LCS 500-233526/4	Lab Control Sample	100	105	89	101
MB 500-233432/6	Method Blank	102	90	92	95
MB 500-233526/6	Method Blank	104	99	93	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

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

Lab Sample ID: MB 500-233432/6

Matrix: Water

Analysis Batch: 233432

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			04/26/14 13:42	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/26/14 13:42	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/26/14 13:42	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/26/14 13:42	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/26/14 13:42	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/26/14 13:42	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/26/14 13:42	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/26/14 13:42	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/26/14 13:42	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/26/14 13:42	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/26/14 13:42	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/26/14 13:42	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/26/14 13:42	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/26/14 13:42	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/26/14 13:42	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/26/14 13:42	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/26/14 13:42	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/26/14 13:42	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/26/14 13:42	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/26/14 13:42	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/26/14 13:42	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/26/14 13:42	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/26/14 13:42	1
Benzene	<0.074		0.50	0.074	ug/L			04/26/14 13:42	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/26/14 13:42	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/26/14 13:42	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/26/14 13:42	1
Bromoform	<0.28		1.0	0.28	ug/L			04/26/14 13:42	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/26/14 13:42	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/26/14 13:42	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/26/14 13:42	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/26/14 13:42	1
Chloroform	<0.20		1.0	0.20	ug/L			04/26/14 13:42	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/26/14 13:42	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/26/14 13:42	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/26/14 13:42	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/26/14 13:42	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/26/14 13:42	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/26/14 13:42	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/26/14 13:42	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/26/14 13:42	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/26/14 13:42	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/26/14 13:42	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/26/14 13:42	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/26/14 13:42	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/26/14 13:42	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/26/14 13:42	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/26/14 13:42	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

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

Lab Sample ID: MB 500-233432/6

Matrix: Water

Analysis Batch: 233432

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/26/14 13:42	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/26/14 13:42	1
Styrene	<0.10		1.0	0.10	ug/L			04/26/14 13:42	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/26/14 13:42	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/26/14 13:42	1
Toluene	<0.11		0.50	0.11	ug/L			04/26/14 13:42	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/26/14 13:42	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/26/14 13:42	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/26/14 13:42	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/26/14 13:42	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/26/14 13:42	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/26/14 13:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 125		04/26/14 13:42	1
4-Bromofluorobenzene (Surr)	90		75 - 120		04/26/14 13:42	1
Dibromofluoromethane	92		75 - 120		04/26/14 13:42	1
Toluene-d8 (Surr)	95		75 - 120		04/26/14 13:42	1

Lab Sample ID: LCS 500-233432/4

Matrix: Water

Analysis Batch: 233432

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.7		ug/L		105	75 - 122
1,1,1-Trichloroethane	50.0	52.1		ug/L		104	72 - 130
1,1,1,2-Tetrachloroethane	50.0	48.9		ug/L		98	72 - 130
1,1,2-Trichloroethane	50.0	49.1		ug/L		98	75 - 120
1,1-Dichloroethane	50.0	51.8		ug/L		104	75 - 120
1,1-Dichloroethene	50.0	49.4		ug/L		99	69 - 120
1,1-Dichloropropene	50.0	52.1		ug/L		104	75 - 130
1,2,3-Trichlorobenzene	50.0	56.0		ug/L		112	69 - 131
1,2,3-Trichloropropane	50.0	48.4		ug/L		97	65 - 132
1,2,4-Trichlorobenzene	50.0	55.1		ug/L		110	73 - 130
1,2,4-Trimethylbenzene	50.0	50.2		ug/L		100	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	44.0		ug/L		88	62 - 130
1,2-Dibromoethane	50.0	51.5		ug/L		103	78 - 122
1,2-Dichlorobenzene	50.0	51.4		ug/L		103	75 - 120
1,2-Dichloroethane	50.0	54.7		ug/L		109	69 - 130
1,2-Dichloropropane	50.0	51.5		ug/L		103	75 - 120
1,3,5-Trimethylbenzene	50.0	51.4		ug/L		103	75 - 121
1,3-Dichlorobenzene	50.0	52.1		ug/L		104	75 - 120
1,3-Dichloropropane	50.0	49.8		ug/L		100	77 - 124
1,4-Dichlorobenzene	50.0	51.2		ug/L		102	75 - 120
2,2-Dichloropropane	50.0	48.3		ug/L		97	65 - 132
2-Chlorotoluene	50.0	50.0		ug/L		100	75 - 120
4-Chlorotoluene	50.0	50.4		ug/L		101	75 - 120
Benzene	50.0	48.5		ug/L		97	75 - 120

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

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

Lab Sample ID: LCS 500-233432/4

Matrix: Water

Analysis Batch: 233432

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	52.7		ug/L		105	75 - 120
Bromochloromethane	50.0	50.6		ug/L		101	76 - 120
Bromodichloromethane	50.0	50.2		ug/L		100	77 - 121
Bromoform	50.0	50.8		ug/L		102	68 - 126
Bromomethane	50.0	55.2		ug/L		110	45 - 169
Carbon tetrachloride	50.0	54.1		ug/L		108	70 - 130
Chlorobenzene	50.0	51.1		ug/L		102	75 - 120
Chloroethane	50.0	57.2		ug/L		114	58 - 147
Chloroform	50.0	49.2		ug/L		98	76 - 120
Chloromethane	50.0	44.2		ug/L		88	63 - 133
cis-1,2-Dichloroethene	50.0	48.5		ug/L		97	75 - 120
cis-1,3-Dichloropropene	50.0	47.9		ug/L		96	78 - 130
Dibromochloromethane	50.0	50.0		ug/L		100	71 - 126
Dibromomethane	50.0	50.8		ug/L		102	75 - 120
Dichlorodifluoromethane	50.0	27.4		ug/L		55	41 - 146
Ethylbenzene	50.0	51.3		ug/L		103	75 - 120
Hexachlorobutadiene	50.0	57.2		ug/L		114	71 - 131
Isopropylbenzene	50.0	51.1		ug/L		102	75 - 121
Methyl tert-butyl ether	50.0	49.2		ug/L		98	75 - 130
Methylene Chloride	50.0	47.9		ug/L		96	73 - 130
Naphthalene	50.0	51.1		ug/L		102	69 - 135
n-Butylbenzene	50.0	51.6		ug/L		103	75 - 121
N-Propylbenzene	50.0	51.1		ug/L		102	75 - 120
p-Isopropyltoluene	50.0	52.5		ug/L		105	75 - 121
sec-Butylbenzene	50.0	51.3		ug/L		103	75 - 120
Styrene	50.0	49.3		ug/L		99	75 - 120
tert-Butylbenzene	50.0	50.9		ug/L		102	75 - 123
Tetrachloroethene	50.0	54.5		ug/L		109	75 - 120
Toluene	50.0	50.5		ug/L		101	75 - 120
trans-1,2-Dichloroethene	50.0	49.4		ug/L		99	77 - 120
trans-1,3-Dichloropropene	50.0	53.5		ug/L		107	74 - 130
Trichloroethene	50.0	52.1		ug/L		104	75 - 120
Trichlorofluoromethane	50.0	55.9		ug/L		112	71 - 130
Vinyl chloride	50.0	42.9		ug/L		86	72 - 123
Xylenes, Total	100	101		ug/L		101	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		75 - 125
4-Bromofluorobenzene (Surr)	89		75 - 120
Dibromofluoromethane	93		75 - 120
Toluene-d8 (Surr)	94		75 - 120

Lab Sample ID: MB 500-233526/6

Matrix: Water

Analysis Batch: 233526

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			04/28/14 10:21	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

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

Lab Sample ID: MB 500-233526/6

Matrix: Water

Analysis Batch: 233526

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/28/14 10:21	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/28/14 10:21	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/28/14 10:21	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/28/14 10:21	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/28/14 10:21	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/28/14 10:21	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/28/14 10:21	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/28/14 10:21	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/28/14 10:21	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/28/14 10:21	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/28/14 10:21	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/28/14 10:21	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/28/14 10:21	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/28/14 10:21	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/28/14 10:21	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/28/14 10:21	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/28/14 10:21	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/28/14 10:21	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/28/14 10:21	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/28/14 10:21	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/28/14 10:21	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/28/14 10:21	1
Benzene	<0.074		0.50	0.074	ug/L			04/28/14 10:21	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/28/14 10:21	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/28/14 10:21	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/28/14 10:21	1
Bromoform	<0.28		1.0	0.28	ug/L			04/28/14 10:21	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/28/14 10:21	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/28/14 10:21	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/28/14 10:21	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/28/14 10:21	1
Chloroform	<0.20		1.0	0.20	ug/L			04/28/14 10:21	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/28/14 10:21	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/28/14 10:21	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/28/14 10:21	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/28/14 10:21	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/28/14 10:21	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/28/14 10:21	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/28/14 10:21	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/28/14 10:21	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/28/14 10:21	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/28/14 10:21	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/28/14 10:21	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/28/14 10:21	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/28/14 10:21	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/28/14 10:21	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/28/14 10:21	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/28/14 10:21	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

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

Lab Sample ID: MB 500-233526/6

Matrix: Water

Analysis Batch: 233526

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/28/14 10:21	1
Styrene	<0.10		1.0	0.10	ug/L			04/28/14 10:21	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/28/14 10:21	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/28/14 10:21	1
Toluene	<0.11		0.50	0.11	ug/L			04/28/14 10:21	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/28/14 10:21	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/28/14 10:21	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/28/14 10:21	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/28/14 10:21	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/28/14 10:21	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/28/14 10:21	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	104		75 - 125		04/28/14 10:21	1
4-Bromofluorobenzene (Surr)	99		75 - 120		04/28/14 10:21	1
Dibromofluoromethane	93		75 - 120		04/28/14 10:21	1
Toluene-d8 (Surr)	96		75 - 120		04/28/14 10:21	1

Lab Sample ID: LCS 500-233526/4

Matrix: Water

Analysis Batch: 233526

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	52.4		ug/L		105	72 - 130
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/L		102	72 - 130
1,1,2-Trichloroethane	50.0	50.8		ug/L		102	75 - 120
1,1-Dichloroethane	50.0	54.1		ug/L		108	75 - 120
1,1-Dichloroethene	50.0	49.2		ug/L		98	69 - 120
1,1-Dichloropropene	50.0	56.1		ug/L		112	75 - 130
1,2,3-Trichlorobenzene	50.0	52.7		ug/L		105	69 - 131
1,2,3-Trichloropropene	50.0	43.9		ug/L		88	65 - 132
1,2,4-Trichlorobenzene	50.0	54.7		ug/L		109	73 - 130
1,2,4-Trimethylbenzene	50.0	57.4		ug/L		115	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	52.8		ug/L		106	62 - 130
1,2-Dibromoethane	50.0	48.3		ug/L		97	78 - 122
1,2-Dichlorobenzene	50.0	52.9		ug/L		106	75 - 120
1,2-Dichloroethane	50.0	51.9		ug/L		104	69 - 130
1,2-Dichloropropane	50.0	53.9		ug/L		108	75 - 120
1,3,5-Trimethylbenzene	50.0	59.2		ug/L		118	75 - 121
1,3-Dichlorobenzene	50.0	54.2		ug/L		108	75 - 120
1,3-Dichloropropane	50.0	53.5		ug/L		107	77 - 124
1,4-Dichlorobenzene	50.0	52.5		ug/L		105	75 - 120
2,2-Dichloropropane	50.0	47.3		ug/L		95	65 - 132
2-Chlorotoluene	50.0	58.9		ug/L		118	75 - 120
4-Chlorotoluene	50.0	58.8		ug/L		118	75 - 120
Benzene	50.0	50.8		ug/L		102	75 - 120
Bromobenzene	50.0	53.6		ug/L		107	75 - 120

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

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

Lab Sample ID: LCS 500-233526/4

Matrix: Water

Analysis Batch: 233526

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	48.1		ug/L		96	76 - 120
Bromodichloromethane	50.0	50.4		ug/L		101	77 - 121
Bromoform	50.0	49.0		ug/L		98	68 - 126
Bromomethane	50.0	33.9		ug/L		68	45 - 169
Carbon tetrachloride	50.0	51.8		ug/L		104	70 - 130
Chlorobenzene	50.0	50.4		ug/L		101	75 - 120
Chloroethane	50.0	42.3		ug/L		85	58 - 147
Chloroform	50.0	50.1		ug/L		100	76 - 120
Chloromethane	50.0	64.9		ug/L		130	63 - 133
cis-1,2-Dichloroethene	50.0	50.5		ug/L		101	75 - 120
cis-1,3-Dichloropropene	50.0	54.6		ug/L		109	78 - 130
Dibromochloromethane	50.0	49.0		ug/L		98	71 - 126
Dibromomethane	50.0	47.0		ug/L		94	75 - 120
Dichlorodifluoromethane	50.0	47.5		ug/L		95	41 - 146
Ethylbenzene	50.0	51.7		ug/L		103	75 - 120
Hexachlorobutadiene	50.0	58.3		ug/L		117	71 - 131
Isopropylbenzene	50.0	58.0		ug/L		116	75 - 121
Methyl tert-butyl ether	50.0	48.6		ug/L		97	75 - 130
Methylene Chloride	50.0	44.9		ug/L		90	73 - 130
Naphthalene	50.0	50.3		ug/L		101	69 - 135
n-Butylbenzene	50.0	59.1		ug/L		118	75 - 121
N-Propylbenzene	50.0	59.9		ug/L		120	75 - 120
p-Isopropyltoluene	50.0	59.7		ug/L		119	75 - 121
sec-Butylbenzene	50.0	58.0		ug/L		116	75 - 120
Styrene	50.0	52.0		ug/L		104	75 - 120
tert-Butylbenzene	50.0	60.3		ug/L		121	75 - 123
Tetrachloroethene	50.0	52.5		ug/L		105	75 - 120
Toluene	50.0	55.1		ug/L		110	75 - 120
trans-1,2-Dichloroethene	50.0	50.1		ug/L		100	77 - 120
trans-1,3-Dichloropropene	50.0	59.0		ug/L		118	74 - 130
Trichloroethene	50.0	53.0		ug/L		106	75 - 120
Trichlorofluoromethane	50.0	48.9		ug/L		98	71 - 130
Vinyl chloride	50.0	50.7		ug/L		101	72 - 123
Xylenes, Total	100	110		ug/L		110	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		75 - 125
4-Bromofluorobenzene (Surr)	105		75 - 120
Dibromofluoromethane	89		75 - 120
Toluene-d8 (Surr)	101		75 - 120

Lab Sample ID: 500-75677-5 MS

Matrix: Water

Analysis Batch: 233526

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<0.25		50.0	53.3		ug/L		107	75 - 122
1,1,1-Trichloroethane	<0.20		50.0	54.8		ug/L		110	72 - 130

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

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

Lab Sample ID: 500-75677-5 MS

Matrix: Water

Analysis Batch: 233526

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,1,2,2-Tetrachloroethane	<0.23		50.0	51.6		ug/L		103	72 - 130
1,1,2-Trichloroethane	<0.28		50.0	51.7		ug/L		103	75 - 120
1,1-Dichloroethane	<0.19		50.0	56.6		ug/L		113	75 - 120
1,1-Dichloroethene	<0.31		50.0	50.7		ug/L		101	69 - 120
1,1-Dichloropropene	<0.34		50.0	56.0		ug/L		112	75 - 130
1,2,3-Trichlorobenzene	<0.24		50.0	59.1		ug/L		118	69 - 131
1,2,3-Trichloropropane	<0.45		50.0	52.9		ug/L		106	65 - 132
1,2,4-Trichlorobenzene	<0.31		50.0	58.3		ug/L		117	73 - 130
1,2,4-Trimethylbenzene	<0.14		50.0	55.0		ug/L		110	75 - 121
1,2-Dibromo-3-Chloropropane	<0.87		50.0	63.3		ug/L		127	62 - 130
1,2-Dibromoethane	<0.36		50.0	49.5		ug/L		99	78 - 122
1,2-Dichlorobenzene	<0.27		50.0	54.2		ug/L		108	75 - 120
1,2-Dichloroethane	<0.28		50.0	54.3		ug/L		109	69 - 130
1,2-Dichloropropane	<0.20		50.0	53.8		ug/L		108	75 - 120
1,3,5-Trimethylbenzene	<0.18		50.0	55.8		ug/L		112	75 - 121
1,3-Dichlorobenzene	<0.15		50.0	51.9		ug/L		104	75 - 120
1,3-Dichloropropane	<0.13		50.0	53.6		ug/L		107	77 - 124
1,4-Dichlorobenzene	<0.15		50.0	50.4		ug/L		101	75 - 120
2,2-Dichloropropane	<0.32		50.0	50.9		ug/L		102	65 - 132
2-Chlorotoluene	<0.21		50.0	55.8		ug/L		112	75 - 120
4-Chlorotoluene	<0.20		50.0	54.1		ug/L		108	75 - 120
Benzene	<0.074		50.0	51.1		ug/L		102	75 - 120
Bromobenzene	<0.25		50.0	50.1		ug/L		100	75 - 120
Bromochloromethane	<0.40		50.0	51.5		ug/L		103	76 - 120
Bromodichloromethane	<0.17		50.0	51.4		ug/L		103	77 - 121
Bromoform	<0.28		50.0	53.5		ug/L		107	68 - 126
Bromomethane	<0.31		50.0	35.6		ug/L		71	45 - 169
Carbon tetrachloride	<0.26		50.0	52.9		ug/L		106	70 - 130
Chlorobenzene	<0.14		50.0	49.3		ug/L		99	75 - 120
Chloroethane	<0.34		50.0	43.2		ug/L		86	58 - 147
Chloroform	<0.20		50.0	52.9		ug/L		106	76 - 120
Chloromethane	<0.18		50.0	71.4	F1	ug/L		143	63 - 133
cis-1,2-Dichloroethene	25		50.0	79.7		ug/L		109	75 - 120
cis-1,3-Dichloropropene	<0.18		50.0	52.9		ug/L		106	78 - 130
Dibromochloromethane	<0.32		50.0	51.3		ug/L		103	71 - 126
Dibromomethane	<0.33		50.0	48.9		ug/L		98	75 - 120
Dichlorodifluoromethane	<0.20		50.0	54.1		ug/L		108	41 - 146
Ethylbenzene	<0.13		50.0	50.0		ug/L		100	75 - 120
Hexachlorobutadiene	<0.26		50.0	58.8		ug/L		118	71 - 131
Isopropylbenzene	<0.14		50.0	53.7		ug/L		107	75 - 121
Methyl tert-butyl ether	<0.24		50.0	55.0		ug/L		110	75 - 130
Methylene Chloride	<0.68		50.0	49.6		ug/L		99	73 - 130
Naphthalene	<0.16		50.0	58.4		ug/L		117	69 - 135
n-Butylbenzene	<0.13		50.0	55.3		ug/L		111	75 - 121
N-Propylbenzene	<0.13		50.0	54.6		ug/L		109	75 - 120
p-Isopropyltoluene	<0.17		50.0	56.2		ug/L		112	75 - 121
sec-Butylbenzene	<0.15		50.0	54.5		ug/L		109	75 - 120
Styrene	<0.10		50.0	50.6		ug/L		101	75 - 120

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

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

Lab Sample ID: 500-75677-5 MS

Matrix: Water

Analysis Batch: 233526

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
tert-Butylbenzene	<0.14		50.0	56.6		ug/L		113	75 - 123
Tetrachloroethene	19		50.0	69.1		ug/L		100	75 - 120
Toluene	<0.11		50.0	53.8		ug/L		108	75 - 120
trans-1,2-Dichloroethene	<0.25		50.0	52.6		ug/L		105	77 - 120
trans-1,3-Dichloropropene	<0.21		50.0	57.0		ug/L		114	74 - 130
Trichloroethene	28		50.0	79.2		ug/L		103	75 - 120
Trichlorofluoromethane	<0.19		50.0	53.3		ug/L		107	71 - 130
Vinyl chloride	<0.10		50.0	58.0		ug/L		116	72 - 123
Xylenes, Total	<0.068		100	109		ug/L		109	75 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		75 - 125
4-Bromofluorobenzene (Surr)	97		75 - 120
Dibromofluoromethane	96		75 - 120
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: 500-75677-5 MSD

Matrix: Water

Analysis Batch: 233526

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	<0.25		50.0	52.1		ug/L		104	75 - 122	2	20
1,1,1-Trichloroethane	<0.20		50.0	56.2		ug/L		112	72 - 130	2	20
1,1,1,2,2-Tetrachloroethane	<0.23		50.0	55.0		ug/L		110	72 - 130	6	20
1,1,2-Trichloroethane	<0.28		50.0	52.7		ug/L		105	75 - 120	2	20
1,1-Dichloroethane	<0.19		50.0	58.0		ug/L		116	75 - 120	2	20
1,1-Dichloroethene	<0.31		50.0	52.6		ug/L		105	69 - 120	4	20
1,1-Dichloropropene	<0.34		50.0	56.9		ug/L		114	75 - 130	2	20
1,2,3-Trichlorobenzene	<0.24		50.0	60.7		ug/L		121	69 - 131	3	20
1,2,3-Trichloropropane	<0.45		50.0	56.6		ug/L		113	65 - 132	7	20
1,2,4-Trichlorobenzene	<0.31		50.0	60.2		ug/L		120	73 - 130	3	20
1,2,4-Trimethylbenzene	<0.14		50.0	58.0		ug/L		116	75 - 121	5	20
1,2-Dibromo-3-Chloropropane	<0.87		50.0	61.3		ug/L		123	62 - 130	3	20
1,2-Dibromoethane	<0.36		50.0	51.4		ug/L		103	78 - 122	4	20
1,2-Dichlorobenzene	<0.27		50.0	55.9		ug/L		112	75 - 120	3	20
1,2-Dichloroethane	<0.28		50.0	56.2		ug/L		112	69 - 130	4	20
1,2-Dichloropropane	<0.20		50.0	56.9		ug/L		114	75 - 120	6	20
1,3,5-Trimethylbenzene	<0.18		50.0	59.3		ug/L		119	75 - 121	6	20
1,3-Dichlorobenzene	<0.15		50.0	55.0		ug/L		110	75 - 120	6	20
1,3-Dichloropropane	<0.13		50.0	57.6		ug/L		115	77 - 124	7	20
1,4-Dichlorobenzene	<0.15		50.0	53.2		ug/L		106	75 - 120	5	20
2,2-Dichloropropane	<0.32		50.0	51.3		ug/L		103	65 - 132	1	20
2-Chlorotoluene	<0.21		50.0	59.2		ug/L		118	75 - 120	6	20
4-Chlorotoluene	<0.20		50.0	57.9		ug/L		116	75 - 120	7	20
Benzene	<0.074		50.0	53.6		ug/L		107	75 - 120	5	20
Bromobenzene	<0.25		50.0	54.5		ug/L		109	75 - 120	9	20
Bromochloromethane	<0.40		50.0	53.1		ug/L		106	76 - 120	3	20
Bromodichloromethane	<0.17		50.0	53.9		ug/L		108	77 - 121	5	20

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

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

Lab Sample ID: 500-75677-5 MSD

Matrix: Water

Analysis Batch: 233526

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
Bromoform	<0.28		50.0	54.1		ug/L		108	68 - 126	1	20
Bromomethane	<0.31		50.0	36.1		ug/L		72	45 - 169	1	20
Carbon tetrachloride	<0.26		50.0	54.7		ug/L		109	70 - 130	3	20
Chlorobenzene	<0.14		50.0	51.8		ug/L		104	75 - 120	5	20
Chloroethane	<0.34		50.0	43.1		ug/L		86	58 - 147	0	20
Chloroform	<0.20		50.0	53.6		ug/L		107	76 - 120	1	20
Chloromethane	<0.18		50.0	70.2	F1	ug/L		140	63 - 133	2	20
cis-1,2-Dichloroethene	25		50.0	80.5		ug/L		110	75 - 120	1	20
cis-1,3-Dichloropropene	<0.18		50.0	54.5		ug/L		109	78 - 130	3	20
Dibromochloromethane	<0.32		50.0	52.3		ug/L		105	71 - 126	2	20
Dibromomethane	<0.33		50.0	52.1		ug/L		104	75 - 120	6	20
Dichlorodifluoromethane	<0.20		50.0	48.6		ug/L		97	41 - 146	11	20
Ethylbenzene	<0.13		50.0	52.1		ug/L		104	75 - 120	4	20
Hexachlorobutadiene	<0.26		50.0	60.4		ug/L		121	71 - 131	3	20
Isopropylbenzene	<0.14		50.0	57.5		ug/L		115	75 - 121	7	20
Methyl tert-butyl ether	<0.24		50.0	55.9		ug/L		112	75 - 130	2	20
Methylene Chloride	<0.68		50.0	50.3		ug/L		101	73 - 130	1	20
Naphthalene	<0.16		50.0	62.8		ug/L		126	69 - 135	7	20
n-Butylbenzene	<0.13		50.0	58.1		ug/L		116	75 - 121	5	20
N-Propylbenzene	<0.13		50.0	59.1		ug/L		118	75 - 120	8	20
p-Isopropyltoluene	<0.17		50.0	59.2		ug/L		118	75 - 121	5	20
sec-Butylbenzene	<0.15		50.0	57.9		ug/L		116	75 - 120	6	20
Styrene	<0.10		50.0	52.9		ug/L		106	75 - 120	4	20
tert-Butylbenzene	<0.14		50.0	59.6		ug/L		119	75 - 123	5	20
Tetrachloroethene	19		50.0	69.8		ug/L		101	75 - 120	1	20
Toluene	<0.11		50.0	54.4		ug/L		109	75 - 120	1	20
trans-1,2-Dichloroethene	<0.25		50.0	53.9		ug/L		108	77 - 120	3	20
trans-1,3-Dichloropropene	<0.21		50.0	61.8		ug/L		124	74 - 130	8	20
Trichloroethene	28		50.0	79.7		ug/L		104	75 - 120	1	20
Trichlorofluoromethane	<0.19		50.0	50.6		ug/L		101	71 - 130	5	20
Vinyl chloride	<0.10		50.0	55.3		ug/L		111	72 - 123	5	20
Xylenes, Total	<0.068		100	111		ug/L		111	75 - 120	2	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	104		75 - 125
4-Bromofluorobenzene (Surr)	101		75 - 120
Dibromofluoromethane	94		75 - 120
Toluene-d8 (Surr)	96		75 - 120

Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 500-233165/1-A

Matrix: Water

Analysis Batch: 233548

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 233165

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Barium	<0.44		2.5	0.44	ug/L		04/24/14 15:00	04/25/14 16:17	1
Cadmium	<0.15		0.50	0.15	ug/L		04/24/14 15:00	04/25/14 16:17	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: MB 500-233165/1-A
Matrix: Water
Analysis Batch: 233548

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 233165

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.63		5.0	0.63	ug/L		04/24/14 15:00	04/25/14 16:17	1
Copper	<0.61		2.0	0.61	ug/L		04/24/14 15:00	04/25/14 16:17	1
Iron	<12		100	12	ug/L		04/24/14 15:00	04/25/14 16:17	1
Lead	<0.091		0.50	0.091	ug/L		04/24/14 15:00	04/25/14 16:17	1
Manganese	<0.76		2.5	0.76	ug/L		04/24/14 15:00	04/25/14 16:17	1
Nickel	1.35	J	2.0	0.69	ug/L		04/24/14 15:00	04/25/14 16:17	1
Selenium	<0.69		2.5	0.69	ug/L		04/24/14 15:00	04/25/14 16:17	1
Silver	<0.062		0.50	0.062	ug/L		04/24/14 15:00	04/25/14 16:17	1
Zinc	<5.9		20	5.9	ug/L		04/24/14 15:00	04/25/14 16:17	1

Lab Sample ID: MB 500-233165/1-A
Matrix: Water
Analysis Batch: 233624

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 233165

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.23		1.0	0.23	ug/L		04/24/14 15:00	04/28/14 10:32	1

Lab Sample ID: LCS 500-233165/2-A
Matrix: Water
Analysis Batch: 233548

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 233165

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	500	534		ug/L		107	80 - 120
Cadmium	50.0	52.1		ug/L		104	80 - 120
Chromium	200	219		ug/L		110	80 - 120
Copper	250	286		ug/L		114	80 - 120
Iron	1000	1140		ug/L		114	80 - 120
Lead	100	113		ug/L		113	80 - 120
Nickel	500	558		ug/L		112	80 - 120
Selenium	100	97.5		ug/L		97	80 - 120
Silver	50.0	54.0		ug/L		108	80 - 120
Zinc	500	532		ug/L		106	80 - 120

Lab Sample ID: LCS 500-233165/2-A
Matrix: Water
Analysis Batch: 233624

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 233165

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	100	101		ug/L		101	80 - 120

Lab Chronicle

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Client Sample ID: MW-25D

Lab Sample ID: 500-75677-1

Date Collected: 04/21/14 12:00

Matrix: Water

Date Received: 04/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	233432	04/26/14 19:10	JLH	TAL CHI

Client Sample ID: MW-25D2

Lab Sample ID: 500-75677-2

Date Collected: 04/21/14 13:08

Matrix: Water

Date Received: 04/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	233432	04/26/14 19:38	JLH	TAL CHI

Client Sample ID: MW-17

Lab Sample ID: 500-75677-3

Date Collected: 04/22/14 10:55

Matrix: Water

Date Received: 04/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	233432	04/26/14 20:05	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	20	233432	04/26/14 20:33	JLH	TAL CHI

Client Sample ID: MW-26S

Lab Sample ID: 500-75677-4

Date Collected: 04/22/14 13:00

Matrix: Water

Date Received: 04/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	233432	04/26/14 21:00	JLH	TAL CHI

Client Sample ID: MW-1

Lab Sample ID: 500-75677-5

Date Collected: 04/22/14 14:25

Matrix: Water

Date Received: 04/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	233526	04/28/14 12:03	JLH	TAL CHI

Client Sample ID: MW-3S

Lab Sample ID: 500-75677-6

Date Collected: 04/22/14 15:45

Matrix: Water

Date Received: 04/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3005A			233165	04/24/14 15:00	LA1	TAL CHI
Dissolved	Analysis	6020		1	233548	04/25/14 16:27	BJH	TAL CHI
Dissolved	Prep	3005A			233165	04/24/14 15:00	LA1	TAL CHI
Dissolved	Analysis	6020		1	233624	04/28/14 10:46	BJH	TAL CHI
Dissolved	Prep	3005A			233165	04/24/14 15:00	LA1	TAL CHI
Dissolved	Analysis	6020		100	233624	04/28/14 10:49	BJH	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Client Sample ID: MW-3S

Lab Sample ID: 500-75677-6

Date Collected: 04/22/14 15:45

Matrix: Water

Date Received: 04/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			233165	04/24/14 15:00	LA1	TAL CHI
Total Recoverable	Analysis	6020		1	233548	04/25/14 16:24	BJH	TAL CHI
Total Recoverable	Prep	3005A			233165	04/24/14 15:00	LA1	TAL CHI
Total Recoverable	Analysis	6020		1	233624	04/28/14 10:39	BJH	TAL CHI
Total Recoverable	Prep	3005A			233165	04/24/14 15:00	LA1	TAL CHI
Total Recoverable	Analysis	6020		100	233624	04/28/14 10:42	BJH	TAL CHI

Client Sample ID: MW-18S

Lab Sample ID: 500-75677-7

Date Collected: 04/22/14 16:52

Matrix: Water

Date Received: 04/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	233526	04/28/14 11:12	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	5	233526	04/28/14 11:37	JLH	TAL CHI
Dissolved	Prep	3005A			233165	04/24/14 15:00	LA1	TAL CHI
Dissolved	Analysis	6020		1	233548	04/25/14 16:34	BJH	TAL CHI
Dissolved	Prep	3005A			233165	04/24/14 15:00	LA1	TAL CHI
Dissolved	Analysis	6020		1	233624	04/28/14 10:56	BJH	TAL CHI
Total Recoverable	Prep	3005A			233165	04/24/14 15:00	LA1	TAL CHI
Total Recoverable	Analysis	6020		1	233548	04/25/14 16:31	BJH	TAL CHI
Total Recoverable	Prep	3005A			233165	04/24/14 15:00	LA1	TAL CHI
Total Recoverable	Analysis	6020		1	233624	04/28/14 10:53	BJH	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-75677-8

Date Collected: 04/22/14 00:00

Matrix: Water

Date Received: 04/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	233526	04/28/14 10:46	JLH	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-75677-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-14

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ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 1

Lab Work Order #

500-75677

500-75677 COC

Send Results to:	Name: Tim Alessi ARCADIS	Telephone: 414.276.7742	Preservative: B C C					Keys Preservation Key: A. H ₂ SO ₄ B. HCl C. HNO ₃ D. NaOH E. None F. Other: _____ G. Other: _____ H. Other: _____ Container Information Key: 1. 40 ml Vial 2. 1 L Amber 3. 250 ml Plastic 4. 500 ml Plastic 5. Encore 6. 2 oz. Glass 7. 4 oz. Glass 8. 8 oz. Glass 9. Other: _____ 10. Other: _____ Matrix Key: SO - Soil W - Water T - Tissue SE - Sediment SL - Sludge A - Air NL - NAPL/Oil SW - Sample Wipe Other: _____	
	Address: 126 N. Jefferson St. #400	Fax: 414.276.7603	# of Containers: 3	1	1				
	City: Milwaukee State: WI Zip: 53202	E-mail Address: tim.alessi@arcadis-us.com	Container Information: 1 3 3						

PARAMETER ANALYSIS & METHOD

Project Name/Location (City, State): MKC (Madison, WI)	Project #: WI001368.0018.00002	<div style="transform: rotate(-45deg); font-size: 2em; font-weight: bold;"> VOCs Method 8260 Total Metals (unfiltered) Method 8210 Dissolved Metals (filtered) Method 8210 Field filtered Method 8210 6020 </div>
Sampler's Printed Name: Maureen O'Brien	Sampler's Signature: <i>Maureen O'Brien</i>	

	Sample ID	Collection		Type (✓)		Matrix	PARAMETER ANALYSIS & METHOD						REMARKS		
		Date	Time	Comp.	Grab										
1	MW-25D	4/21/14	1200		✓	W	3								
2	MW-25D2	4/21/14	1308		✓	W	3								
3	MW-17	4/20/14	1055		✓	W	3								
4	MW-26S	4/22/14	1300		✓	W	3								
5	MW-1	4/22/14	1425		✓	W	9							MS/MSD	
6	MW-3S	4/22/14	1545		✓	W		1		1					
7	MW-18S	4/22/14	1652		✓	W	3	1		1					
8	Trip Blank	-	-		-	-	-	1							

Special Instructions/Comments: _____ Special QA/QC Instructions(✓): _____

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name: Test America	Cooler Custody Seal (✓) <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: Maureen O'Brien	Signature: <i>Maureen O'Brien</i>	Printed Name: JEFF LUNT	Signature: <i>Jeff Lunt</i>	Printed Name:	Signature:	Printed Name:	Signature:
<input checked="" type="checkbox"/> Cooler packed with Ice (✓)	Sample Receipt:	Firm: ARCADIS	Date/Time: 4/23/2014 1430	Firm/Courier: TA	Date/Time: 4/24/14 1010	Firm/Courier:	Date/Time:	Firm:	Date/Time:
Specify Turnaround Requirements: Standard	Condition/Cooler Temp: 14								

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-75677-1

Login Number: 75677

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	1.4
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-80381-1
Client Project/Site: MadisonKipp WI001368.0018.00002

For:
ARCADIS U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee, Wisconsin 53202

Attn: Chris Kubacki



Authorized for release by:
7/15/2014 1:06:17 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

Job ID: 500-80381-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-80381-1

Comments

No additional comments.

Receipt

The samples were received on 7/11/2014 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.4° C.

GC/MS VOA

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

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Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-80381-1

No Detections.

Client Sample ID: MW-26S

Lab Sample ID: 500-80381-2

No Detections.

Client Sample ID: MW-27D

Lab Sample ID: 500-80381-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.5		1.0	0.12	ug/L	1		8260B	Total/NA
Ethylbenzene	0.55		0.50	0.13	ug/L	1		8260B	Total/NA
Tetrachloroethene	5.0		1.0	0.17	ug/L	1		8260B	Total/NA
Toluene	0.47	J	0.50	0.11	ug/L	1		8260B	Total/NA
Trichloroethene	3.5		0.50	0.19	ug/L	1		8260B	Total/NA
Xylenes, Total	3.0		1.0	0.068	ug/L	1		8260B	Total/NA

Client Sample ID: MW-27D2

Lab Sample ID: 500-80381-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11		1.0	0.12	ug/L	1		8260B	Total/NA
Ethylbenzene	0.33	J	0.50	0.13	ug/L	1		8260B	Total/NA
Tetrachloroethene	36		1.0	0.17	ug/L	1		8260B	Total/NA
Toluene	0.43	J	0.50	0.11	ug/L	1		8260B	Total/NA
Trichloroethene	21		0.50	0.19	ug/L	1		8260B	Total/NA
Xylenes, Total	1.6		1.0	0.068	ug/L	1		8260B	Total/NA

Client Sample ID: MW-25D

Lab Sample ID: 500-80381-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.35	J	0.50	0.13	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.2		1.0	0.17	ug/L	1		8260B	Total/NA
Toluene	0.49	J	0.50	0.11	ug/L	1		8260B	Total/NA
Xylenes, Total	1.6		1.0	0.068	ug/L	1		8260B	Total/NA

Client Sample ID: MW-25D2

Lab Sample ID: 500-80381-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.47	J	0.50	0.13	ug/L	1		8260B	Total/NA
Toluene	0.63		0.50	0.11	ug/L	1		8260B	Total/NA
Xylenes, Total	2.5		1.0	0.068	ug/L	1		8260B	Total/NA

Client Sample ID: DUP-1

Lab Sample ID: 500-80381-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11		1.0	0.12	ug/L	1		8260B	Total/NA
Ethylbenzene	0.36	J	0.50	0.13	ug/L	1		8260B	Total/NA
Tetrachloroethene	35		1.0	0.17	ug/L	1		8260B	Total/NA
Toluene	0.41	J	0.50	0.11	ug/L	1		8260B	Total/NA
Trichloroethene	20		0.50	0.19	ug/L	1		8260B	Total/NA
Xylenes, Total	1.6		1.0	0.068	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-80381-1	TRIP BLANK	Water	07/09/14 00:00	07/11/14 09:45
500-80381-2	MW-26S	Water	07/10/14 08:51	07/11/14 09:45
500-80381-3	MW-27D	Water	07/09/14 11:36	07/11/14 09:45
500-80381-4	MW-27D2	Water	07/09/14 15:03	07/11/14 09:45
500-80381-5	MW-25D	Water	07/09/14 17:45	07/11/14 09:45
500-80381-6	MW-25D2	Water	07/10/14 10:35	07/11/14 09:45
500-80381-7	DUP-1	Water	07/09/14 00:00	07/11/14 09:45



Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-80381-1

Date Collected: 07/09/14 00:00

Matrix: Water

Date Received: 07/11/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			07/15/14 01:39	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			07/15/14 01:39	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			07/15/14 01:39	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			07/15/14 01:39	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			07/15/14 01:39	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			07/15/14 01:39	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			07/15/14 01:39	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			07/15/14 01:39	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			07/15/14 01:39	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			07/15/14 01:39	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 01:39	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			07/15/14 01:39	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			07/15/14 01:39	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			07/15/14 01:39	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			07/15/14 01:39	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			07/15/14 01:39	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			07/15/14 01:39	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			07/15/14 01:39	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			07/15/14 01:39	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			07/15/14 01:39	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			07/15/14 01:39	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			07/15/14 01:39	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			07/15/14 01:39	1
Benzene	<0.074		0.50	0.074	ug/L			07/15/14 01:39	1
Bromobenzene	<0.25		1.0	0.25	ug/L			07/15/14 01:39	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			07/15/14 01:39	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			07/15/14 01:39	1
Bromoform	<0.28		1.0	0.28	ug/L			07/15/14 01:39	1
Bromomethane	<0.31		1.0	0.31	ug/L			07/15/14 01:39	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			07/15/14 01:39	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			07/15/14 01:39	1
Chloroethane	<0.34		1.0	0.34	ug/L			07/15/14 01:39	1
Chloroform	<0.20		1.0	0.20	ug/L			07/15/14 01:39	1
Chloromethane	<0.18		1.0	0.18	ug/L			07/15/14 01:39	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			07/15/14 01:39	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			07/15/14 01:39	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			07/15/14 01:39	1
Dibromomethane	<0.33		1.0	0.33	ug/L			07/15/14 01:39	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			07/15/14 01:39	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			07/15/14 01:39	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			07/15/14 01:39	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			07/15/14 01:39	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 01:39	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			07/15/14 01:39	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			07/15/14 01:39	1
Naphthalene	<0.16		1.0	0.16	ug/L			07/15/14 01:39	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			07/15/14 01:39	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			07/15/14 01:39	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			07/15/14 01:39	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-80381-1

Date Collected: 07/09/14 00:00

Matrix: Water

Date Received: 07/11/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			07/15/14 01:39	1
Styrene	<0.10		1.0	0.10	ug/L			07/15/14 01:39	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 01:39	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			07/15/14 01:39	1
Toluene	<0.11		0.50	0.11	ug/L			07/15/14 01:39	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			07/15/14 01:39	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			07/15/14 01:39	1
Trichloroethene	<0.19		0.50	0.19	ug/L			07/15/14 01:39	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			07/15/14 01:39	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			07/15/14 01:39	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			07/15/14 01:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 125					07/15/14 01:39	1
4-Bromofluorobenzene (Surr)	87		75 - 120					07/15/14 01:39	1
Dibromofluoromethane	97		75 - 120					07/15/14 01:39	1
Toluene-d8 (Surr)	98		75 - 120					07/15/14 01:39	1

Client Sample ID: MW-26S

Lab Sample ID: 500-80381-2

Date Collected: 07/10/14 08:51

Matrix: Water

Date Received: 07/11/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			07/15/14 02:04	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			07/15/14 02:04	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			07/15/14 02:04	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			07/15/14 02:04	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			07/15/14 02:04	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			07/15/14 02:04	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			07/15/14 02:04	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			07/15/14 02:04	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			07/15/14 02:04	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			07/15/14 02:04	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 02:04	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			07/15/14 02:04	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			07/15/14 02:04	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			07/15/14 02:04	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			07/15/14 02:04	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			07/15/14 02:04	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			07/15/14 02:04	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			07/15/14 02:04	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			07/15/14 02:04	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			07/15/14 02:04	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			07/15/14 02:04	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			07/15/14 02:04	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			07/15/14 02:04	1
Benzene	<0.074		0.50	0.074	ug/L			07/15/14 02:04	1
Bromobenzene	<0.25		1.0	0.25	ug/L			07/15/14 02:04	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			07/15/14 02:04	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

Client Sample ID: MW-26S

Lab Sample ID: 500-80381-2

Date Collected: 07/10/14 08:51

Matrix: Water

Date Received: 07/11/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.17		1.0	0.17	ug/L			07/15/14 02:04	1
Bromoform	<0.28		1.0	0.28	ug/L			07/15/14 02:04	1
Bromomethane	<0.31		1.0	0.31	ug/L			07/15/14 02:04	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			07/15/14 02:04	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			07/15/14 02:04	1
Chloroethane	<0.34		1.0	0.34	ug/L			07/15/14 02:04	1
Chloroform	<0.20		1.0	0.20	ug/L			07/15/14 02:04	1
Chloromethane	<0.18		1.0	0.18	ug/L			07/15/14 02:04	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			07/15/14 02:04	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			07/15/14 02:04	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			07/15/14 02:04	1
Dibromomethane	<0.33		1.0	0.33	ug/L			07/15/14 02:04	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			07/15/14 02:04	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			07/15/14 02:04	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			07/15/14 02:04	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			07/15/14 02:04	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 02:04	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			07/15/14 02:04	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			07/15/14 02:04	1
Naphthalene	<0.16		1.0	0.16	ug/L			07/15/14 02:04	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			07/15/14 02:04	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			07/15/14 02:04	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			07/15/14 02:04	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			07/15/14 02:04	1
Styrene	<0.10		1.0	0.10	ug/L			07/15/14 02:04	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 02:04	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			07/15/14 02:04	1
Toluene	<0.11		0.50	0.11	ug/L			07/15/14 02:04	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			07/15/14 02:04	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			07/15/14 02:04	1
Trichloroethene	<0.19		0.50	0.19	ug/L			07/15/14 02:04	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			07/15/14 02:04	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			07/15/14 02:04	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			07/15/14 02:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 125		07/15/14 02:04	1
4-Bromofluorobenzene (Surr)	87		75 - 120		07/15/14 02:04	1
Dibromofluoromethane	96		75 - 120		07/15/14 02:04	1
Toluene-d8 (Surr)	97		75 - 120		07/15/14 02:04	1

Client Sample ID: MW-27D

Lab Sample ID: 500-80381-3

Date Collected: 07/09/14 11:36

Matrix: Water

Date Received: 07/11/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			07/15/14 02:29	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			07/15/14 02:29	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			07/15/14 02:29	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

Client Sample ID: MW-27D

Lab Sample ID: 500-80381-3

Date Collected: 07/09/14 11:36

Matrix: Water

Date Received: 07/11/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			07/15/14 02:29	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			07/15/14 02:29	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			07/15/14 02:29	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			07/15/14 02:29	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			07/15/14 02:29	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			07/15/14 02:29	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			07/15/14 02:29	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 02:29	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			07/15/14 02:29	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			07/15/14 02:29	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			07/15/14 02:29	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			07/15/14 02:29	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			07/15/14 02:29	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			07/15/14 02:29	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			07/15/14 02:29	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			07/15/14 02:29	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			07/15/14 02:29	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			07/15/14 02:29	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			07/15/14 02:29	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			07/15/14 02:29	1
Benzene	<0.074		0.50	0.074	ug/L			07/15/14 02:29	1
Bromobenzene	<0.25		1.0	0.25	ug/L			07/15/14 02:29	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			07/15/14 02:29	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			07/15/14 02:29	1
Bromoform	<0.28		1.0	0.28	ug/L			07/15/14 02:29	1
Bromomethane	<0.31		1.0	0.31	ug/L			07/15/14 02:29	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			07/15/14 02:29	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			07/15/14 02:29	1
Chloroethane	<0.34		1.0	0.34	ug/L			07/15/14 02:29	1
Chloroform	<0.20		1.0	0.20	ug/L			07/15/14 02:29	1
Chloromethane	<0.18		1.0	0.18	ug/L			07/15/14 02:29	1
cis-1,2-Dichloroethene	2.5		1.0	0.12	ug/L			07/15/14 02:29	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			07/15/14 02:29	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			07/15/14 02:29	1
Dibromomethane	<0.33		1.0	0.33	ug/L			07/15/14 02:29	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			07/15/14 02:29	1
Ethylbenzene	0.55		0.50	0.13	ug/L			07/15/14 02:29	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			07/15/14 02:29	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			07/15/14 02:29	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 02:29	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			07/15/14 02:29	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			07/15/14 02:29	1
Naphthalene	<0.16		1.0	0.16	ug/L			07/15/14 02:29	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			07/15/14 02:29	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			07/15/14 02:29	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			07/15/14 02:29	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			07/15/14 02:29	1
Styrene	<0.10		1.0	0.10	ug/L			07/15/14 02:29	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 02:29	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

Client Sample ID: MW-27D

Lab Sample ID: 500-80381-3

Date Collected: 07/09/14 11:36

Matrix: Water

Date Received: 07/11/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	5.0		1.0	0.17	ug/L			07/15/14 02:29	1
Toluene	0.47	J	0.50	0.11	ug/L			07/15/14 02:29	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			07/15/14 02:29	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			07/15/14 02:29	1
Trichloroethene	3.5		0.50	0.19	ug/L			07/15/14 02:29	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			07/15/14 02:29	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			07/15/14 02:29	1
Xylenes, Total	3.0		1.0	0.068	ug/L			07/15/14 02:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		75 - 125					07/15/14 02:29	1
4-Bromofluorobenzene (Surr)	87		75 - 120					07/15/14 02:29	1
Dibromofluoromethane	97		75 - 120					07/15/14 02:29	1
Toluene-d8 (Surr)	98		75 - 120					07/15/14 02:29	1

Client Sample ID: MW-27D2

Lab Sample ID: 500-80381-4

Date Collected: 07/09/14 15:03

Matrix: Water

Date Received: 07/11/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			07/15/14 02:53	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			07/15/14 02:53	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			07/15/14 02:53	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			07/15/14 02:53	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			07/15/14 02:53	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			07/15/14 02:53	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			07/15/14 02:53	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			07/15/14 02:53	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			07/15/14 02:53	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			07/15/14 02:53	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 02:53	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			07/15/14 02:53	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			07/15/14 02:53	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			07/15/14 02:53	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			07/15/14 02:53	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			07/15/14 02:53	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			07/15/14 02:53	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			07/15/14 02:53	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			07/15/14 02:53	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			07/15/14 02:53	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			07/15/14 02:53	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			07/15/14 02:53	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			07/15/14 02:53	1
Benzene	<0.074		0.50	0.074	ug/L			07/15/14 02:53	1
Bromobenzene	<0.25		1.0	0.25	ug/L			07/15/14 02:53	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			07/15/14 02:53	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			07/15/14 02:53	1
Bromoform	<0.28		1.0	0.28	ug/L			07/15/14 02:53	1
Bromomethane	<0.31		1.0	0.31	ug/L			07/15/14 02:53	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

Client Sample ID: MW-27D2

Lab Sample ID: 500-80381-4

Date Collected: 07/09/14 15:03

Matrix: Water

Date Received: 07/11/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			07/15/14 02:53	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			07/15/14 02:53	1
Chloroethane	<0.34		1.0	0.34	ug/L			07/15/14 02:53	1
Chloroform	<0.20		1.0	0.20	ug/L			07/15/14 02:53	1
Chloromethane	<0.18		1.0	0.18	ug/L			07/15/14 02:53	1
cis-1,2-Dichloroethene	11		1.0	0.12	ug/L			07/15/14 02:53	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			07/15/14 02:53	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			07/15/14 02:53	1
Dibromomethane	<0.33		1.0	0.33	ug/L			07/15/14 02:53	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			07/15/14 02:53	1
Ethylbenzene	0.33	J	0.50	0.13	ug/L			07/15/14 02:53	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			07/15/14 02:53	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			07/15/14 02:53	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 02:53	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			07/15/14 02:53	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			07/15/14 02:53	1
Naphthalene	<0.16		1.0	0.16	ug/L			07/15/14 02:53	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			07/15/14 02:53	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			07/15/14 02:53	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			07/15/14 02:53	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			07/15/14 02:53	1
Styrene	<0.10		1.0	0.10	ug/L			07/15/14 02:53	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 02:53	1
Tetrachloroethene	36		1.0	0.17	ug/L			07/15/14 02:53	1
Toluene	0.43	J	0.50	0.11	ug/L			07/15/14 02:53	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			07/15/14 02:53	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			07/15/14 02:53	1
Trichloroethene	21		0.50	0.19	ug/L			07/15/14 02:53	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			07/15/14 02:53	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			07/15/14 02:53	1
Xylenes, Total	1.6		1.0	0.068	ug/L			07/15/14 02:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		75 - 125		07/15/14 02:53	1
4-Bromofluorobenzene (Surr)	88		75 - 120		07/15/14 02:53	1
Dibromofluoromethane	96		75 - 120		07/15/14 02:53	1
Toluene-d8 (Surr)	97		75 - 120		07/15/14 02:53	1

Client Sample ID: MW-25D

Lab Sample ID: 500-80381-5

Date Collected: 07/09/14 17:45

Matrix: Water

Date Received: 07/11/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			07/15/14 03:18	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			07/15/14 03:18	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			07/15/14 03:18	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			07/15/14 03:18	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			07/15/14 03:18	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			07/15/14 03:18	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

Client Sample ID: MW-25D

Lab Sample ID: 500-80381-5

Date Collected: 07/09/14 17:45

Matrix: Water

Date Received: 07/11/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			07/15/14 03:18	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			07/15/14 03:18	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			07/15/14 03:18	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			07/15/14 03:18	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 03:18	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			07/15/14 03:18	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			07/15/14 03:18	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			07/15/14 03:18	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			07/15/14 03:18	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			07/15/14 03:18	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			07/15/14 03:18	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			07/15/14 03:18	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			07/15/14 03:18	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			07/15/14 03:18	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			07/15/14 03:18	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			07/15/14 03:18	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			07/15/14 03:18	1
Benzene	<0.074		0.50	0.074	ug/L			07/15/14 03:18	1
Bromobenzene	<0.25		1.0	0.25	ug/L			07/15/14 03:18	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			07/15/14 03:18	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			07/15/14 03:18	1
Bromoform	<0.28		1.0	0.28	ug/L			07/15/14 03:18	1
Bromomethane	<0.31		1.0	0.31	ug/L			07/15/14 03:18	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			07/15/14 03:18	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			07/15/14 03:18	1
Chloroethane	<0.34		1.0	0.34	ug/L			07/15/14 03:18	1
Chloroform	<0.20		1.0	0.20	ug/L			07/15/14 03:18	1
Chloromethane	<0.18		1.0	0.18	ug/L			07/15/14 03:18	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			07/15/14 03:18	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			07/15/14 03:18	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			07/15/14 03:18	1
Dibromomethane	<0.33		1.0	0.33	ug/L			07/15/14 03:18	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			07/15/14 03:18	1
Ethylbenzene	0.35	J	0.50	0.13	ug/L			07/15/14 03:18	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			07/15/14 03:18	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			07/15/14 03:18	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 03:18	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			07/15/14 03:18	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			07/15/14 03:18	1
Naphthalene	<0.16		1.0	0.16	ug/L			07/15/14 03:18	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			07/15/14 03:18	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			07/15/14 03:18	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			07/15/14 03:18	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			07/15/14 03:18	1
Styrene	<0.10		1.0	0.10	ug/L			07/15/14 03:18	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 03:18	1
Tetrachloroethene	1.2		1.0	0.17	ug/L			07/15/14 03:18	1
Toluene	0.49	J	0.50	0.11	ug/L			07/15/14 03:18	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			07/15/14 03:18	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

Client Sample ID: MW-25D

Lab Sample ID: 500-80381-5

Date Collected: 07/09/14 17:45

Matrix: Water

Date Received: 07/11/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			07/15/14 03:18	1
Trichloroethene	<0.19		0.50	0.19	ug/L			07/15/14 03:18	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			07/15/14 03:18	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			07/15/14 03:18	1
Xylenes, Total	1.6		1.0	0.068	ug/L			07/15/14 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		75 - 125		07/15/14 03:18	1
4-Bromofluorobenzene (Surr)	87		75 - 120		07/15/14 03:18	1
Dibromofluoromethane	96		75 - 120		07/15/14 03:18	1
Toluene-d8 (Surr)	97		75 - 120		07/15/14 03:18	1

Client Sample ID: MW-25D2

Lab Sample ID: 500-80381-6

Date Collected: 07/10/14 10:35

Matrix: Water

Date Received: 07/11/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			07/15/14 03:43	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			07/15/14 03:43	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			07/15/14 03:43	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			07/15/14 03:43	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			07/15/14 03:43	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			07/15/14 03:43	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			07/15/14 03:43	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			07/15/14 03:43	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			07/15/14 03:43	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			07/15/14 03:43	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 03:43	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			07/15/14 03:43	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			07/15/14 03:43	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			07/15/14 03:43	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			07/15/14 03:43	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			07/15/14 03:43	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			07/15/14 03:43	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			07/15/14 03:43	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			07/15/14 03:43	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			07/15/14 03:43	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			07/15/14 03:43	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			07/15/14 03:43	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			07/15/14 03:43	1
Benzene	<0.074		0.50	0.074	ug/L			07/15/14 03:43	1
Bromobenzene	<0.25		1.0	0.25	ug/L			07/15/14 03:43	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			07/15/14 03:43	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			07/15/14 03:43	1
Bromoform	<0.28		1.0	0.28	ug/L			07/15/14 03:43	1
Bromomethane	<0.31		1.0	0.31	ug/L			07/15/14 03:43	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			07/15/14 03:43	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			07/15/14 03:43	1
Chloroethane	<0.34		1.0	0.34	ug/L			07/15/14 03:43	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

Client Sample ID: MW-25D2

Lab Sample ID: 500-80381-6

Date Collected: 07/10/14 10:35

Matrix: Water

Date Received: 07/11/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<0.20		1.0	0.20	ug/L			07/15/14 03:43	1
Chloromethane	<0.18		1.0	0.18	ug/L			07/15/14 03:43	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			07/15/14 03:43	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			07/15/14 03:43	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			07/15/14 03:43	1
Dibromomethane	<0.33		1.0	0.33	ug/L			07/15/14 03:43	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			07/15/14 03:43	1
Ethylbenzene	0.47	J	0.50	0.13	ug/L			07/15/14 03:43	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			07/15/14 03:43	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			07/15/14 03:43	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 03:43	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			07/15/14 03:43	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			07/15/14 03:43	1
Naphthalene	<0.16		1.0	0.16	ug/L			07/15/14 03:43	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			07/15/14 03:43	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			07/15/14 03:43	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			07/15/14 03:43	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			07/15/14 03:43	1
Styrene	<0.10		1.0	0.10	ug/L			07/15/14 03:43	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 03:43	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			07/15/14 03:43	1
Toluene	0.63		0.50	0.11	ug/L			07/15/14 03:43	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			07/15/14 03:43	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			07/15/14 03:43	1
Trichloroethene	<0.19		0.50	0.19	ug/L			07/15/14 03:43	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			07/15/14 03:43	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			07/15/14 03:43	1
Xylenes, Total	2.5		1.0	0.068	ug/L			07/15/14 03:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 125		07/15/14 03:43	1
4-Bromofluorobenzene (Surr)	86		75 - 120		07/15/14 03:43	1
Dibromofluoromethane	96		75 - 120		07/15/14 03:43	1
Toluene-d8 (Surr)	97		75 - 120		07/15/14 03:43	1

Client Sample ID: DUP-1

Lab Sample ID: 500-80381-7

Date Collected: 07/09/14 00:00

Matrix: Water

Date Received: 07/11/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			07/15/14 04:07	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			07/15/14 04:07	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			07/15/14 04:07	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			07/15/14 04:07	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			07/15/14 04:07	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			07/15/14 04:07	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			07/15/14 04:07	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			07/15/14 04:07	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			07/15/14 04:07	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

Client Sample ID: DUP-1

Lab Sample ID: 500-80381-7

Date Collected: 07/09/14 00:00

Matrix: Water

Date Received: 07/11/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			07/15/14 04:07	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 04:07	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			07/15/14 04:07	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			07/15/14 04:07	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			07/15/14 04:07	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			07/15/14 04:07	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			07/15/14 04:07	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			07/15/14 04:07	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			07/15/14 04:07	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			07/15/14 04:07	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			07/15/14 04:07	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			07/15/14 04:07	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			07/15/14 04:07	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			07/15/14 04:07	1
Benzene	<0.074		0.50	0.074	ug/L			07/15/14 04:07	1
Bromobenzene	<0.25		1.0	0.25	ug/L			07/15/14 04:07	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			07/15/14 04:07	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			07/15/14 04:07	1
Bromoform	<0.28		1.0	0.28	ug/L			07/15/14 04:07	1
Bromomethane	<0.31		1.0	0.31	ug/L			07/15/14 04:07	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			07/15/14 04:07	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			07/15/14 04:07	1
Chloroethane	<0.34		1.0	0.34	ug/L			07/15/14 04:07	1
Chloroform	<0.20		1.0	0.20	ug/L			07/15/14 04:07	1
Chloromethane	<0.18		1.0	0.18	ug/L			07/15/14 04:07	1
cis-1,2-Dichloroethene	11		1.0	0.12	ug/L			07/15/14 04:07	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			07/15/14 04:07	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			07/15/14 04:07	1
Dibromomethane	<0.33		1.0	0.33	ug/L			07/15/14 04:07	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			07/15/14 04:07	1
Ethylbenzene	0.36 J		0.50	0.13	ug/L			07/15/14 04:07	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			07/15/14 04:07	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			07/15/14 04:07	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 04:07	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			07/15/14 04:07	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			07/15/14 04:07	1
Naphthalene	<0.16		1.0	0.16	ug/L			07/15/14 04:07	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			07/15/14 04:07	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			07/15/14 04:07	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			07/15/14 04:07	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			07/15/14 04:07	1
Styrene	<0.10		1.0	0.10	ug/L			07/15/14 04:07	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 04:07	1
Tetrachloroethene	35		1.0	0.17	ug/L			07/15/14 04:07	1
Toluene	0.41 J		0.50	0.11	ug/L			07/15/14 04:07	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			07/15/14 04:07	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			07/15/14 04:07	1
Trichloroethene	20		0.50	0.19	ug/L			07/15/14 04:07	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			07/15/14 04:07	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

Client Sample ID: DUP-1

Lab Sample ID: 500-80381-7

Date Collected: 07/09/14 00:00

Matrix: Water

Date Received: 07/11/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.10		0.50	0.10	ug/L			07/15/14 04:07	1
Xylenes, Total	1.6		1.0	0.068	ug/L			07/15/14 04:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		75 - 125					07/15/14 04:07	1
4-Bromofluorobenzene (Surr)	87		75 - 120					07/15/14 04:07	1
Dibromofluoromethane	98		75 - 120					07/15/14 04:07	1
Toluene-d8 (Surr)	99		75 - 120					07/15/14 04:07	1



Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

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.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

GC/MS VOA

Analysis Batch: 244774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-80381-1	TRIP BLANK	Total/NA	Water	8260B	
500-80381-2	MW-26S	Total/NA	Water	8260B	
500-80381-3	MW-27D	Total/NA	Water	8260B	
500-80381-4	MW-27D2	Total/NA	Water	8260B	
500-80381-5	MW-25D	Total/NA	Water	8260B	
500-80381-6	MW-25D2	Total/NA	Water	8260B	
500-80381-7	DUP-1	Total/NA	Water	8260B	
LCS 500-244774/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-244774/6	Method Blank	Total/NA	Water	8260B	

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-125)	BFB (75-120)	DBFM (75-120)	TOL (75-120)
500-80381-1	TRIP BLANK	87	87	97	98
500-80381-2	MW-26S	88	87	96	97
500-80381-3	MW-27D	90	87	97	98
500-80381-4	MW-27D2	90	88	96	97
500-80381-5	MW-25D	89	87	96	97
500-80381-6	MW-25D2	88	86	96	97
500-80381-7	DUP-1	91	87	98	99
LCS 500-244774/4	Lab Control Sample	89	90	96	97
MB 500-244774/6	Method Blank	89	89	97	97

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

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

Lab Sample ID: MB 500-244774/6

Matrix: Water

Analysis Batch: 244774

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			07/15/14 00:25	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			07/15/14 00:25	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			07/15/14 00:25	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			07/15/14 00:25	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			07/15/14 00:25	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			07/15/14 00:25	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			07/15/14 00:25	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			07/15/14 00:25	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			07/15/14 00:25	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			07/15/14 00:25	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 00:25	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			07/15/14 00:25	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			07/15/14 00:25	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			07/15/14 00:25	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			07/15/14 00:25	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			07/15/14 00:25	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			07/15/14 00:25	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			07/15/14 00:25	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			07/15/14 00:25	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			07/15/14 00:25	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			07/15/14 00:25	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			07/15/14 00:25	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			07/15/14 00:25	1
Benzene	<0.074		0.50	0.074	ug/L			07/15/14 00:25	1
Bromobenzene	<0.25		1.0	0.25	ug/L			07/15/14 00:25	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			07/15/14 00:25	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			07/15/14 00:25	1
Bromoform	<0.28		1.0	0.28	ug/L			07/15/14 00:25	1
Bromomethane	<0.31		1.0	0.31	ug/L			07/15/14 00:25	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			07/15/14 00:25	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			07/15/14 00:25	1
Chloroethane	<0.34		1.0	0.34	ug/L			07/15/14 00:25	1
Chloroform	<0.20		1.0	0.20	ug/L			07/15/14 00:25	1
Chloromethane	<0.18		1.0	0.18	ug/L			07/15/14 00:25	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			07/15/14 00:25	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			07/15/14 00:25	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			07/15/14 00:25	1
Dibromomethane	<0.33		1.0	0.33	ug/L			07/15/14 00:25	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			07/15/14 00:25	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			07/15/14 00:25	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			07/15/14 00:25	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			07/15/14 00:25	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 00:25	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			07/15/14 00:25	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			07/15/14 00:25	1
Naphthalene	<0.16		1.0	0.16	ug/L			07/15/14 00:25	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			07/15/14 00:25	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			07/15/14 00:25	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

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

Lab Sample ID: MB 500-244774/6

Matrix: Water

Analysis Batch: 244774

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			07/15/14 00:25	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			07/15/14 00:25	1
Styrene	<0.10		1.0	0.10	ug/L			07/15/14 00:25	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			07/15/14 00:25	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			07/15/14 00:25	1
Toluene	<0.11		0.50	0.11	ug/L			07/15/14 00:25	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			07/15/14 00:25	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			07/15/14 00:25	1
Trichloroethene	<0.19		0.50	0.19	ug/L			07/15/14 00:25	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			07/15/14 00:25	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			07/15/14 00:25	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			07/15/14 00:25	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	89		75 - 125		07/15/14 00:25	1
4-Bromofluorobenzene (Surr)	89		75 - 120		07/15/14 00:25	1
Dibromofluoromethane	97		75 - 120		07/15/14 00:25	1
Toluene-d8 (Surr)	97		75 - 120		07/15/14 00:25	1

Lab Sample ID: LCS 500-244774/4

Matrix: Water

Analysis Batch: 244774

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	48.9		ug/L		98	72 - 130
1,1,2,2-Tetrachloroethane	50.0	46.5		ug/L		93	72 - 130
1,1,2-Trichloroethane	50.0	45.5		ug/L		91	75 - 120
1,1-Dichloroethane	50.0	46.5		ug/L		93	75 - 120
1,1-Dichloroethene	50.0	46.5		ug/L		93	69 - 120
1,1-Dichloropropene	50.0	49.5		ug/L		99	75 - 130
1,2,3-Trichlorobenzene	50.0	45.2		ug/L		90	69 - 131
1,2,3-Trichloropropane	50.0	39.4		ug/L		79	65 - 132
1,2,4-Trichlorobenzene	50.0	44.0		ug/L		88	73 - 130
1,2,4-Trimethylbenzene	50.0	52.4		ug/L		105	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	42.8		ug/L		86	62 - 130
1,2-Dibromoethane	50.0	46.1		ug/L		92	78 - 122
1,2-Dichlorobenzene	50.0	50.3		ug/L		101	75 - 120
1,2-Dichloroethane	50.0	44.6		ug/L		89	69 - 130
1,2-Dichloropropane	50.0	45.9		ug/L		92	75 - 120
1,3,5-Trimethylbenzene	50.0	53.5		ug/L		107	75 - 121
1,3-Dichlorobenzene	50.0	50.9		ug/L		102	75 - 120
1,3-Dichloropropane	50.0	46.0		ug/L		92	77 - 124
1,4-Dichlorobenzene	50.0	49.4		ug/L		99	75 - 120
2,2-Dichloropropane	50.0	43.8		ug/L		88	65 - 132
2-Chlorotoluene	50.0	51.7		ug/L		103	75 - 120
4-Chlorotoluene	50.0	50.9		ug/L		102	75 - 120
Benzene	50.0	45.9		ug/L		92	75 - 120

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

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

Lab Sample ID: LCS 500-244774/4

Matrix: Water

Analysis Batch: 244774

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	52.9		ug/L		106	75 - 120
Bromochloromethane	50.0	46.3		ug/L		93	76 - 120
Bromodichloromethane	50.0	45.8		ug/L		92	77 - 121
Bromoform	50.0	46.3		ug/L		93	68 - 126
Bromomethane	50.0	71.0		ug/L		142	45 - 169
Carbon tetrachloride	50.0	52.0		ug/L		104	70 - 130
Chlorobenzene	50.0	49.5		ug/L		99	75 - 120
Chloroethane	50.0	71.0		ug/L		142	58 - 147
Chloroform	50.0	45.7		ug/L		91	76 - 120
Chloromethane	50.0	47.0		ug/L		94	63 - 133
cis-1,2-Dichloroethene	50.0	47.0		ug/L		94	75 - 120
cis-1,3-Dichloropropene	50.0	43.1		ug/L		86	78 - 130
Dibromochloromethane	50.0	47.1		ug/L		94	71 - 126
Dibromomethane	50.0	44.2		ug/L		88	75 - 120
Dichlorodifluoromethane	50.0	45.4		ug/L		91	41 - 146
Ethylbenzene	50.0	51.9		ug/L		104	75 - 120
Hexachlorobutadiene	50.0	54.2		ug/L		108	71 - 131
Isopropylbenzene	50.0	55.1		ug/L		110	75 - 121
Methyl tert-butyl ether	50.0	38.5		ug/L		77	75 - 130
Methylene Chloride	50.0	45.6		ug/L		91	73 - 130
Naphthalene	50.0	44.2		ug/L		88	69 - 135
n-Butylbenzene	50.0	52.0		ug/L		104	75 - 121
N-Propylbenzene	50.0	54.6		ug/L		109	75 - 120
p-Isopropyltoluene	50.0	54.5		ug/L		109	75 - 121
sec-Butylbenzene	50.0	55.6		ug/L		111	75 - 120
Styrene	50.0	48.2		ug/L		96	75 - 120
tert-Butylbenzene	50.0	56.1		ug/L		112	75 - 123
Tetrachloroethene	50.0	51.9		ug/L		104	75 - 120
Toluene	50.0	46.5		ug/L		93	75 - 120
trans-1,2-Dichloroethene	50.0	47.6		ug/L		95	77 - 120
trans-1,3-Dichloropropene	50.0	43.9		ug/L		88	74 - 130
Trichloroethene	50.0	50.2		ug/L		100	75 - 120
Trichlorofluoromethane	50.0	55.0		ug/L		110	71 - 130
Vinyl chloride	50.0	49.7		ug/L		99	72 - 123
Xylenes, Total	100	98.0		ug/L		98	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	89		75 - 125
4-Bromofluorobenzene (Surr)	90		75 - 120
Dibromofluoromethane	96		75 - 120
Toluene-d8 (Surr)	97		75 - 120

Lab Chronicle

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-80381-1

Date Collected: 07/09/14 00:00

Matrix: Water

Date Received: 07/11/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	244774	07/15/14 01:39	BDA	TAL CHI

Client Sample ID: MW-26S

Lab Sample ID: 500-80381-2

Date Collected: 07/10/14 08:51

Matrix: Water

Date Received: 07/11/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	244774	07/15/14 02:04	BDA	TAL CHI

Client Sample ID: MW-27D

Lab Sample ID: 500-80381-3

Date Collected: 07/09/14 11:36

Matrix: Water

Date Received: 07/11/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	244774	07/15/14 02:29	BDA	TAL CHI

Client Sample ID: MW-27D2

Lab Sample ID: 500-80381-4

Date Collected: 07/09/14 15:03

Matrix: Water

Date Received: 07/11/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	244774	07/15/14 02:53	BDA	TAL CHI

Client Sample ID: MW-25D

Lab Sample ID: 500-80381-5

Date Collected: 07/09/14 17:45

Matrix: Water

Date Received: 07/11/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	244774	07/15/14 03:18	BDA	TAL CHI

Client Sample ID: MW-25D2

Lab Sample ID: 500-80381-6

Date Collected: 07/10/14 10:35

Matrix: Water

Date Received: 07/11/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	244774	07/15/14 03:43	BDA	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

Client Sample ID: DUP-1

Lab Sample ID: 500-80381-7

Date Collected: 07/09/14 00:00

Matrix: Water

Date Received: 07/11/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	244774	07/15/14 04:07	BDA	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-80381-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-14 *

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* Certification renewal pending - certification considered valid.

ID#: _____



500-80381 COC

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 1

Lab Work Order # 500-80381

Send Results to: **Chris Kulecki AUS**
 Telephone: **414.276.7442**
 Address: **126 N Jefferson St #100**
 City: **Milwaukee** State: **WI** Zip: **53202**
 E-mail Address: **chris.kulecki@arcadis-us.com**

Preservative: **B**
 Filtered (✓): **-**
 # of Containers: **3**
 Container Information: **1**

Keys

Preservation Key:
 A. H₂SO₄
 B. HCL
 C. HNO₃
 D. NaOH
 E. None
 F. Other: _____
 G. Other: _____
 H. Other: _____

Container Information Key:
 1. 40 ml Vial
 2. 1 L Amber
 3. 250 ml Plastic
 4. 500 ml Plastic
 5. Encore
 6. 2 oz. Glass
 7. 4 oz. Glass
 8. 8 oz. Glass
 9. Other: _____
 10. Other: _____

Matrix Key:
 SO - Soil SE - Sediment NL - NAPL/Oil
 W - Water SL - Sludge SW - Sample Wipe
 T - Tissue A - Air Other: _____

Project Name/Location (City, State): **Madison-Kpp Corp (MSJWI)** Project #: **W1001308-0018-0002**
 Sampler's Printed Name: **Mareen O'Brien (Kyle Ankeny)** Sampler's Signature: *[Signature]*

Sample ID	Collection		Type (✓)		Matrix	PARAMETER ANALYSIS & METHOD															
	Date	Time	Comp	Grab		VOCs (METHANOL)															
1 Trip Blank	-	-	-	-	W	1															
2 MW-26S	7/9/14	0851		✓	W	3															
3 MW-27D	7/9/14	1136		✓	W	3															
4 MW-27DZ	7/9/14	1503		✓	W	3															
5 MW-25D	7/9/14	1745		✓	W	3															
6 MW-25DZ	7/10/14	1035		✓	W	3															
7 Dup-1	7/9/14	-		✓	W	3															

REMARKS

Special Instructions/Comments: _____ Special QA/QC Instructions (✓): **5.4°C**

Laboratory Information and Receipt		Relinquished By	Received By	Relinquished By	Laboratory Received By
Lab Name: Test America	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: Nicole Duchai Signature: <i>[Signature]</i> Firm: ARCADIS Date/Time: 7/10/14 1600	Printed Name: _____ Signature: <i>[Signature]</i> Firm/Courier: TA Date/Time: 7/10/14 0845	Printed Name: _____ Signature: _____ Firm/Courier: _____ Date/Time: _____	Printed Name: _____ Signature: _____ Firm: _____ Date/Time: _____
Specify Turnaround Requirements: Standard	Sample Receipt:				
Shipping Tracking #: 80660770 0814	Condition/Cooler Temp: _____				

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-80381-1

Login Number: 80381

List Source: TestAmerica Chicago

List Number: 1

Creator: James, Jeff A

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.4c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-86169-1
Client Project/Site: MadisonKipp WI001368.0018.00002

For:
ARCADIS U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee, Wisconsin 53202

Attn: Chris Kubacki



Authorized for release by:
10/29/2014 4:06:55 PM
Therese Hargraves, Project Manager I
therese.hargraves@testamericainc.com

Designee for
Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Job ID: 500-86169-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-86169-1

Comments

No additional comments.

Receipt

The samples were received on 10/16/2014 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.0° C.

Except:

All vials for sample 12 have ID of MW-26, logged per COC.

GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) and the laboratory control sample (LCS) associated with batches 260250, 260373, 260475 and 260586 recovered above the upper control limit for one or more of the following analytes: Chloroethane, Trichlorofluoromethane and Bromomethane. The samples associated with the CCV and LCS standards were non-detects for the affected analytes; therefore, the data has been reported. The following samples are impacted: Dup-4 (500-86169-16), MP-13 (102-106) (500-86169-4), MP-13 (121-125) (500-86169-5), MP-13 (135-139) (500-86169-7), MP-13 (163-167) (500-86169-8), MP-13 (44-48) (500-86169-2), MP-13 (67-71) (500-86169-6), MP-13 (81-85) (500-86169-3), MW-19D2 (500-86169-14), MW-19D2 Quenched (500-86169-15), MW-24 (500-86169-9), MW-26S (500-86169-12), MW-3D (500-86169-13), MW-9D (500-86169-10), MW-9D2 (500-86169-11), Trip Blank (500-86169-1).

Method(s) 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: Dup-4 (500-86169-16), MP-13 (102-106) (500-86169-4), MP-13 (121-125) (500-86169-5), MP-13 (135-139) (500-86169-7), MP-13 (163-167) (500-86169-8), MP-13 (44-48) (500-86169-2), MP-13 (67-71) (500-86169-6), MP-13 (81-85) (500-86169-3), MW-19D2 (500-86169-14), MW-19D2 Quenched (500-86169-15), MW-3D (500-86169-13). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The matrix spike duplicate for sample -12 was analyzed outside the 12 hour tune time.

MW-26S (500-86169-12)

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

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-86169-1

No Detections.

Client Sample ID: MP-13 (44-48)

Lab Sample ID: 500-86169-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	7.7		2.0	0.50	ug/L	2		8260B	Total/NA
Trichloroethene	260		1.0	0.38	ug/L	2		8260B	Total/NA
Vinyl chloride	16		1.0	0.20	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene - DL	440		20	2.4	ug/L	20		8260B	Total/NA
Tetrachloroethene - DL	750		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: MP-13 (81-85)

Lab Sample ID: 500-86169-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1700		10	1.2	ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	25		10	2.5	ug/L	10		8260B	Total/NA
Trichloroethene	730		5.0	1.9	ug/L	10		8260B	Total/NA
Vinyl chloride	55		5.0	1.0	ug/L	10		8260B	Total/NA
Tetrachloroethene - DL	8000		100	17	ug/L	100		8260B	Total/NA

Client Sample ID: MP-13 (102-106)

Lab Sample ID: 500-86169-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	730		5.0	0.60	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	8.1		5.0	1.3	ug/L	5		8260B	Total/NA
Trichloroethene	530		2.5	0.95	ug/L	5		8260B	Total/NA
Vinyl chloride	22		2.5	0.50	ug/L	5		8260B	Total/NA
Tetrachloroethene - DL	2000		50	8.5	ug/L	50		8260B	Total/NA

Client Sample ID: MP-13 (121-125)

Lab Sample ID: 500-86169-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	630		10	1.2	ug/L	10		8260B	Total/NA
trans-1,2-Dichloroethene	6.7	J	10	2.5	ug/L	10		8260B	Total/NA
Trichloroethene	520		5.0	1.9	ug/L	10		8260B	Total/NA
Tetrachloroethene - DL	4800		100	17	ug/L	100		8260B	Total/NA

Client Sample ID: MP-13 (67-71)

Lab Sample ID: 500-86169-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	810		5.0	0.60	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	12		5.0	1.3	ug/L	5		8260B	Total/NA
Trichloroethene	260		2.5	0.95	ug/L	5		8260B	Total/NA
Vinyl chloride	45		2.5	0.50	ug/L	5		8260B	Total/NA
Tetrachloroethene - DL	1600		50	8.5	ug/L	50		8260B	Total/NA

Client Sample ID: MP-13 (135-139)

Lab Sample ID: 500-86169-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	330		10	1.2	ug/L	10		8260B	Total/NA
Trichloroethene	270		5.0	1.9	ug/L	10		8260B	Total/NA
Vinyl chloride	3.7	J	5.0	1.0	ug/L	10		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MP-13 (135-139) (Continued)

Lab Sample ID: 500-86169-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene - DL	6300		100	17	ug/L	100		8260B	Total/NA

Client Sample ID: MP-13 (163-167)

Lab Sample ID: 500-86169-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	160		2.0	0.24	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	1.9	J	2.0	0.50	ug/L	2		8260B	Total/NA
Trichloroethene	100		1.0	0.38	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	930		5.0	0.85	ug/L	5		8260B	Total/NA

Client Sample ID: MW-24

Lab Sample ID: 500-86169-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.83	J	1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-9D

Lab Sample ID: 500-86169-10

No Detections.

Client Sample ID: MW-9D2

Lab Sample ID: 500-86169-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	24		1.0	0.12	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	12		1.0	0.24	ug/L	1		8260B	Total/NA
Tetrachloroethene	41		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	9.6		0.50	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: MW-26S

Lab Sample ID: 500-86169-12

No Detections.

Client Sample ID: MW-3D

Lab Sample ID: 500-86169-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	150		2.0	0.24	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	6.7		2.0	0.50	ug/L	2		8260B	Total/NA
Trichloroethene	120		1.0	0.38	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	750		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: MW-19D2

Lab Sample ID: 500-86169-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromoform	4.9		2.0	0.56	ug/L	2		8260B	Total/NA
Tetrachloroethene	200		2.0	0.34	ug/L	2		8260B	Total/NA

Client Sample ID: MW-19D2 Quenched

Lab Sample ID: 500-86169-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.8		2.0	0.24	ug/L	2		8260B	Total/NA
Trichloroethene	11		1.0	0.38	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	620		20	3.4	ug/L	20		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: Dup-4

Lab Sample ID: 500-86169-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2200		20	2.4	ug/L	20		8260B	Total/NA
trans-1,2-Dichloroethene	42		20	5.0	ug/L	20		8260B	Total/NA
Trichloroethene	1100		10	3.8	ug/L	20		8260B	Total/NA
Vinyl chloride	95		10	2.0	ug/L	20		8260B	Total/NA
Tetrachloroethene - DL	11000		200	34	ug/L	200		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-86169-1	Trip Blank	Water	10/14/14 00:00	10/16/14 10:10
500-86169-2	MP-13 (44-48)	Water	10/14/14 16:41	10/16/14 10:10
500-86169-3	MP-13 (81-85)	Water	10/14/14 15:59	10/16/14 10:10
500-86169-4	MP-13 (102-106)	Water	10/14/14 15:01	10/16/14 10:10
500-86169-5	MP-13 (121-125)	Water	10/14/14 16:59	10/16/14 10:10
500-86169-6	MP-13 (67-71)	Water	10/14/14 16:24	10/16/14 10:10
500-86169-7	MP-13 (135-139)	Water	10/14/14 14:02	10/16/14 10:10
500-86169-8	MP-13 (163-167)	Water	10/14/14 13:25	10/16/14 10:10
500-86169-9	MW-24	Water	10/14/14 17:10	10/16/14 10:10
500-86169-10	MW-9D	Water	10/14/14 14:50	10/16/14 10:10
500-86169-11	MW-9D2	Water	10/14/14 13:50	10/16/14 10:10
500-86169-12	MW-26S	Water	10/15/14 09:45	10/16/14 10:10
500-86169-13	MW-3D	Water	10/15/14 12:10	10/16/14 10:10
500-86169-14	MW-19D2	Water	10/15/14 16:15	10/16/14 10:10
500-86169-15	MW-19D2 Quenched	Water	10/15/14 16:15	10/16/14 10:10
500-86169-16	Dup-4	Water	10/14/14 00:00	10/16/14 10:10



Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-86169-1

Date Collected: 10/14/14 00:00

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/22/14 04:28	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/22/14 04:28	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/22/14 04:28	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/22/14 04:28	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/22/14 04:28	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/22/14 04:28	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/22/14 04:28	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/22/14 04:28	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/22/14 04:28	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/22/14 04:28	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 04:28	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/22/14 04:28	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/22/14 04:28	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/22/14 04:28	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/22/14 04:28	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/22/14 04:28	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/22/14 04:28	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/22/14 04:28	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/22/14 04:28	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/22/14 04:28	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/22/14 04:28	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/22/14 04:28	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/22/14 04:28	1
Benzene	<0.074		0.50	0.074	ug/L			10/22/14 04:28	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/22/14 04:28	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/22/14 04:28	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/22/14 04:28	1
Bromoform	<0.28		1.0	0.28	ug/L			10/22/14 04:28	1
Bromomethane	<0.31 *		1.0	0.31	ug/L			10/22/14 04:28	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/22/14 04:28	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/22/14 04:28	1
Chloroethane	<0.34 *		1.0	0.34	ug/L			10/22/14 04:28	1
Chloroform	<0.20		1.0	0.20	ug/L			10/22/14 04:28	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/22/14 04:28	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/22/14 04:28	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/22/14 04:28	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/14 04:28	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/22/14 04:28	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/22/14 04:28	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/22/14 04:28	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/22/14 04:28	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/22/14 04:28	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 04:28	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/22/14 04:28	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/22/14 04:28	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/22/14 04:28	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/22/14 04:28	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/22/14 04:28	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/22/14 04:28	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-86169-1

Date Collected: 10/14/14 00:00

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/22/14 04:28	1
Styrene	<0.10		1.0	0.10	ug/L			10/22/14 04:28	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 04:28	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/22/14 04:28	1
Toluene	<0.11		0.50	0.11	ug/L			10/22/14 04:28	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/22/14 04:28	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/22/14 04:28	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/22/14 04:28	1
Trichlorofluoromethane	<0.19	*	1.0	0.19	ug/L			10/22/14 04:28	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/22/14 04:28	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/22/14 04:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 125					10/22/14 04:28	1
4-Bromofluorobenzene (Surr)	78		75 - 120					10/22/14 04:28	1
Dibromofluoromethane	102		75 - 120					10/22/14 04:28	1
Toluene-d8 (Surr)	98		75 - 120					10/22/14 04:28	1

Client Sample ID: MP-13 (44-48)

Lab Sample ID: 500-86169-2

Date Collected: 10/14/14 16:41

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			10/22/14 04:53	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			10/22/14 04:53	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			10/22/14 04:53	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			10/22/14 04:53	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			10/22/14 04:53	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			10/22/14 04:53	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			10/22/14 04:53	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			10/22/14 04:53	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			10/22/14 04:53	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			10/22/14 04:53	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			10/22/14 04:53	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			10/22/14 04:53	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			10/22/14 04:53	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			10/22/14 04:53	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			10/22/14 04:53	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			10/22/14 04:53	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			10/22/14 04:53	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/22/14 04:53	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			10/22/14 04:53	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/22/14 04:53	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			10/22/14 04:53	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			10/22/14 04:53	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			10/22/14 04:53	2
Benzene	<0.15		1.0	0.15	ug/L			10/22/14 04:53	2
Bromobenzene	<0.50		2.0	0.50	ug/L			10/22/14 04:53	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			10/22/14 04:53	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MP-13 (44-48)

Lab Sample ID: 500-86169-2

Date Collected: 10/14/14 16:41

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.34		2.0	0.34	ug/L			10/22/14 04:53	2
Bromoform	<0.56		2.0	0.56	ug/L			10/22/14 04:53	2
Bromomethane	<0.62	*	2.0	0.62	ug/L			10/22/14 04:53	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			10/22/14 04:53	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			10/22/14 04:53	2
Chloroethane	<0.68	*	2.0	0.68	ug/L			10/22/14 04:53	2
Chloroform	<0.40		2.0	0.40	ug/L			10/22/14 04:53	2
Chloromethane	<0.36		2.0	0.36	ug/L			10/22/14 04:53	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			10/22/14 04:53	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			10/22/14 04:53	2
Dibromomethane	<0.66		2.0	0.66	ug/L			10/22/14 04:53	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			10/22/14 04:53	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			10/22/14 04:53	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			10/22/14 04:53	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			10/22/14 04:53	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			10/22/14 04:53	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			10/22/14 04:53	2
Methylene Chloride	<1.4		10	1.4	ug/L			10/22/14 04:53	2
Naphthalene	<0.32		2.0	0.32	ug/L			10/22/14 04:53	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			10/22/14 04:53	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			10/22/14 04:53	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			10/22/14 04:53	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			10/22/14 04:53	2
Styrene	<0.20		2.0	0.20	ug/L			10/22/14 04:53	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			10/22/14 04:53	2
Toluene	<0.22		1.0	0.22	ug/L			10/22/14 04:53	2
trans-1,2-Dichloroethene	7.7		2.0	0.50	ug/L			10/22/14 04:53	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			10/22/14 04:53	2
Trichloroethene	260		1.0	0.38	ug/L			10/22/14 04:53	2
Trichlorofluoromethane	<0.38	*	2.0	0.38	ug/L			10/22/14 04:53	2
Vinyl chloride	16		1.0	0.20	ug/L			10/22/14 04:53	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			10/22/14 04:53	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		75 - 125		10/22/14 04:53	2
4-Bromofluorobenzene (Surr)	77		75 - 120		10/22/14 04:53	2
Dibromofluoromethane	99		75 - 120		10/22/14 04:53	2
Toluene-d8 (Surr)	96		75 - 120		10/22/14 04:53	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	440		20	2.4	ug/L			10/22/14 05:18	20
Tetrachloroethene	750		20	3.4	ug/L			10/22/14 05:18	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 125		10/22/14 05:18	20
4-Bromofluorobenzene (Surr)	75		75 - 120		10/22/14 05:18	20
Dibromofluoromethane	98		75 - 120		10/22/14 05:18	20
Toluene-d8 (Surr)	97		75 - 120		10/22/14 05:18	20

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MP-13 (81-85)

Lab Sample ID: 500-86169-3

Date Collected: 10/14/14 15:59

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<2.5		10	2.5	ug/L			10/22/14 12:22	10
1,1,1-Trichloroethane	<2.0		10	2.0	ug/L			10/22/14 12:22	10
1,1,2,2-Tetrachloroethane	<2.3		10	2.3	ug/L			10/22/14 12:22	10
1,1,2-Trichloroethane	<2.8		10	2.8	ug/L			10/22/14 12:22	10
1,1-Dichloroethane	<1.9		10	1.9	ug/L			10/22/14 12:22	10
1,1-Dichloroethene	<3.1		10	3.1	ug/L			10/22/14 12:22	10
1,1-Dichloropropene	<3.4		10	3.4	ug/L			10/22/14 12:22	10
1,2,3-Trichlorobenzene	<2.4		10	2.4	ug/L			10/22/14 12:22	10
1,2,3-Trichloropropane	<4.5		10	4.5	ug/L			10/22/14 12:22	10
1,2,4-Trichlorobenzene	<3.1		10	3.1	ug/L			10/22/14 12:22	10
1,2,4-Trimethylbenzene	<1.4		10	1.4	ug/L			10/22/14 12:22	10
1,2-Dibromo-3-Chloropropane	<8.7		20	8.7	ug/L			10/22/14 12:22	10
1,2-Dibromoethane	<3.6		10	3.6	ug/L			10/22/14 12:22	10
1,2-Dichlorobenzene	<2.7		10	2.7	ug/L			10/22/14 12:22	10
1,2-Dichloroethane	<2.8		10	2.8	ug/L			10/22/14 12:22	10
1,2-Dichloropropane	<2.0		10	2.0	ug/L			10/22/14 12:22	10
1,3,5-Trimethylbenzene	<1.8		10	1.8	ug/L			10/22/14 12:22	10
1,3-Dichlorobenzene	<1.5		10	1.5	ug/L			10/22/14 12:22	10
1,3-Dichloropropane	<1.3		10	1.3	ug/L			10/22/14 12:22	10
1,4-Dichlorobenzene	<1.5		10	1.5	ug/L			10/22/14 12:22	10
2,2-Dichloropropane	<3.2		10	3.2	ug/L			10/22/14 12:22	10
2-Chlorotoluene	<2.1		10	2.1	ug/L			10/22/14 12:22	10
4-Chlorotoluene	<2.0		10	2.0	ug/L			10/22/14 12:22	10
Benzene	<0.74		5.0	0.74	ug/L			10/22/14 12:22	10
Bromobenzene	<2.5		10	2.5	ug/L			10/22/14 12:22	10
Bromochloromethane	<4.0		10	4.0	ug/L			10/22/14 12:22	10
Bromodichloromethane	<1.7		10	1.7	ug/L			10/22/14 12:22	10
Bromoform	<2.8		10	2.8	ug/L			10/22/14 12:22	10
Bromomethane	<3.1 *		10	3.1	ug/L			10/22/14 12:22	10
Carbon tetrachloride	<2.6		10	2.6	ug/L			10/22/14 12:22	10
Chlorobenzene	<1.4		10	1.4	ug/L			10/22/14 12:22	10
Chloroethane	<3.4 *		10	3.4	ug/L			10/22/14 12:22	10
Chloroform	<2.0		10	2.0	ug/L			10/22/14 12:22	10
Chloromethane	<1.8		10	1.8	ug/L			10/22/14 12:22	10
cis-1,2-Dichloroethene	1700		10	1.2	ug/L			10/22/14 12:22	10
cis-1,3-Dichloropropene	<1.8		10	1.8	ug/L			10/22/14 12:22	10
Dibromochloromethane	<3.2		10	3.2	ug/L			10/22/14 12:22	10
Dibromomethane	<3.3		10	3.3	ug/L			10/22/14 12:22	10
Dichlorodifluoromethane	<2.0		10	2.0	ug/L			10/22/14 12:22	10
Ethylbenzene	<1.3		5.0	1.3	ug/L			10/22/14 12:22	10
Hexachlorobutadiene	<2.6		10	2.6	ug/L			10/22/14 12:22	10
Isopropyl ether	<1.5		10	1.5	ug/L			10/22/14 12:22	10
Isopropylbenzene	<1.4		10	1.4	ug/L			10/22/14 12:22	10
Methyl tert-butyl ether	<2.4		10	2.4	ug/L			10/22/14 12:22	10
Methylene Chloride	<6.8		50	6.8	ug/L			10/22/14 12:22	10
Naphthalene	<1.6		10	1.6	ug/L			10/22/14 12:22	10
n-Butylbenzene	<1.3		10	1.3	ug/L			10/22/14 12:22	10
N-Propylbenzene	<1.3		10	1.3	ug/L			10/22/14 12:22	10
p-Isopropyltoluene	<1.7		10	1.7	ug/L			10/22/14 12:22	10

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MP-13 (81-85)

Lab Sample ID: 500-86169-3

Date Collected: 10/14/14 15:59

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<1.5		10	1.5	ug/L			10/22/14 12:22	10
Styrene	<1.0		10	1.0	ug/L			10/22/14 12:22	10
tert-Butylbenzene	<1.4		10	1.4	ug/L			10/22/14 12:22	10
Toluene	<1.1		5.0	1.1	ug/L			10/22/14 12:22	10
trans-1,2-Dichloroethene	25		10	2.5	ug/L			10/22/14 12:22	10
trans-1,3-Dichloropropene	<2.1		10	2.1	ug/L			10/22/14 12:22	10
Trichloroethene	730		5.0	1.9	ug/L			10/22/14 12:22	10
Trichlorofluoromethane	<1.9		10	1.9	ug/L			10/22/14 12:22	10
Vinyl chloride	55		5.0	1.0	ug/L			10/22/14 12:22	10
Xylenes, Total	<0.68		10	0.68	ug/L			10/22/14 12:22	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 125		10/22/14 12:22	10
4-Bromofluorobenzene (Surr)	80		75 - 120		10/22/14 12:22	10
Dibromofluoromethane	98		75 - 120		10/22/14 12:22	10
Toluene-d8 (Surr)	95		75 - 120		10/22/14 12:22	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	8000		100	17	ug/L			10/22/14 12:47	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		75 - 125		10/22/14 12:47	100
4-Bromofluorobenzene (Surr)	78		75 - 120		10/22/14 12:47	100
Dibromofluoromethane	98		75 - 120		10/22/14 12:47	100
Toluene-d8 (Surr)	96		75 - 120		10/22/14 12:47	100

Client Sample ID: MP-13 (102-106)

Lab Sample ID: 500-86169-4

Date Collected: 10/14/14 15:01

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.3		5.0	1.3	ug/L			10/22/14 13:12	5
1,1,1-Trichloroethane	<1.0		5.0	1.0	ug/L			10/22/14 13:12	5
1,1,1,2-Tetrachloroethane	<1.2		5.0	1.2	ug/L			10/22/14 13:12	5
1,1,2-Trichloroethane	<1.4		5.0	1.4	ug/L			10/22/14 13:12	5
1,1-Dichloroethane	<0.95		5.0	0.95	ug/L			10/22/14 13:12	5
1,1-Dichloroethene	<1.6		5.0	1.6	ug/L			10/22/14 13:12	5
1,1-Dichloropropene	<1.7		5.0	1.7	ug/L			10/22/14 13:12	5
1,2,3-Trichlorobenzene	<1.2		5.0	1.2	ug/L			10/22/14 13:12	5
1,2,3-Trichloropropane	<2.3		5.0	2.3	ug/L			10/22/14 13:12	5
1,2,4-Trichlorobenzene	<1.6		5.0	1.6	ug/L			10/22/14 13:12	5
1,2,4-Trimethylbenzene	<0.70		5.0	0.70	ug/L			10/22/14 13:12	5
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/L			10/22/14 13:12	5
1,2-Dibromoethane	<1.8		5.0	1.8	ug/L			10/22/14 13:12	5
1,2-Dichlorobenzene	<1.4		5.0	1.4	ug/L			10/22/14 13:12	5
1,2-Dichloroethane	<1.4		5.0	1.4	ug/L			10/22/14 13:12	5
1,2-Dichloropropane	<1.0		5.0	1.0	ug/L			10/22/14 13:12	5
1,3,5-Trimethylbenzene	<0.90		5.0	0.90	ug/L			10/22/14 13:12	5

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MP-13 (102-106)

Lab Sample ID: 500-86169-4

Date Collected: 10/14/14 15:01

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.75		5.0	0.75	ug/L			10/22/14 13:12	5
1,3-Dichloropropane	<0.65		5.0	0.65	ug/L			10/22/14 13:12	5
1,4-Dichlorobenzene	<0.75		5.0	0.75	ug/L			10/22/14 13:12	5
2,2-Dichloropropane	<1.6		5.0	1.6	ug/L			10/22/14 13:12	5
2-Chlorotoluene	<1.1		5.0	1.1	ug/L			10/22/14 13:12	5
4-Chlorotoluene	<1.0		5.0	1.0	ug/L			10/22/14 13:12	5
Benzene	<0.37		2.5	0.37	ug/L			10/22/14 13:12	5
Bromobenzene	<1.3		5.0	1.3	ug/L			10/22/14 13:12	5
Bromochloromethane	<2.0		5.0	2.0	ug/L			10/22/14 13:12	5
Bromodichloromethane	<0.85		5.0	0.85	ug/L			10/22/14 13:12	5
Bromoform	<1.4		5.0	1.4	ug/L			10/22/14 13:12	5
Bromomethane	<1.6 *		5.0	1.6	ug/L			10/22/14 13:12	5
Carbon tetrachloride	<1.3		5.0	1.3	ug/L			10/22/14 13:12	5
Chlorobenzene	<0.70		5.0	0.70	ug/L			10/22/14 13:12	5
Chloroethane	<1.7 *		5.0	1.7	ug/L			10/22/14 13:12	5
Chloroform	<1.0		5.0	1.0	ug/L			10/22/14 13:12	5
Chloromethane	<0.90		5.0	0.90	ug/L			10/22/14 13:12	5
cis-1,2-Dichloroethene	730		5.0	0.60	ug/L			10/22/14 13:12	5
cis-1,3-Dichloropropene	<0.90		5.0	0.90	ug/L			10/22/14 13:12	5
Dibromochloromethane	<1.6		5.0	1.6	ug/L			10/22/14 13:12	5
Dibromomethane	<1.7		5.0	1.7	ug/L			10/22/14 13:12	5
Dichlorodifluoromethane	<1.0		5.0	1.0	ug/L			10/22/14 13:12	5
Ethylbenzene	<0.65		2.5	0.65	ug/L			10/22/14 13:12	5
Hexachlorobutadiene	<1.3		5.0	1.3	ug/L			10/22/14 13:12	5
Isopropyl ether	<0.75		5.0	0.75	ug/L			10/22/14 13:12	5
Isopropylbenzene	<0.70		5.0	0.70	ug/L			10/22/14 13:12	5
Methyl tert-butyl ether	<1.2		5.0	1.2	ug/L			10/22/14 13:12	5
Methylene Chloride	<3.4		25	3.4	ug/L			10/22/14 13:12	5
Naphthalene	<0.80		5.0	0.80	ug/L			10/22/14 13:12	5
n-Butylbenzene	<0.65		5.0	0.65	ug/L			10/22/14 13:12	5
N-Propylbenzene	<0.65		5.0	0.65	ug/L			10/22/14 13:12	5
p-Isopropyltoluene	<0.85		5.0	0.85	ug/L			10/22/14 13:12	5
sec-Butylbenzene	<0.75		5.0	0.75	ug/L			10/22/14 13:12	5
Styrene	<0.50		5.0	0.50	ug/L			10/22/14 13:12	5
tert-Butylbenzene	<0.70		5.0	0.70	ug/L			10/22/14 13:12	5
Toluene	<0.55		2.5	0.55	ug/L			10/22/14 13:12	5
trans-1,2-Dichloroethene	8.1		5.0	1.3	ug/L			10/22/14 13:12	5
trans-1,3-Dichloropropene	<1.1		5.0	1.1	ug/L			10/22/14 13:12	5
Trichloroethene	530		2.5	0.95	ug/L			10/22/14 13:12	5
Trichlorofluoromethane	<0.95		5.0	0.95	ug/L			10/22/14 13:12	5
Vinyl chloride	22		2.5	0.50	ug/L			10/22/14 13:12	5
Xylenes, Total	<0.34		5.0	0.34	ug/L			10/22/14 13:12	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		75 - 125		10/22/14 13:12	5
4-Bromofluorobenzene (Surr)	80		75 - 120		10/22/14 13:12	5
Dibromofluoromethane	100		75 - 120		10/22/14 13:12	5
Toluene-d8 (Surr)	96		75 - 120		10/22/14 13:12	5

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MP-13 (102-106)

Lab Sample ID: 500-86169-4

Date Collected: 10/14/14 15:01

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	2000		50	8.5	ug/L			10/22/14 13:37	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		75 - 125					10/22/14 13:37	50
4-Bromofluorobenzene (Surr)	78		75 - 120					10/22/14 13:37	50
Dibromofluoromethane	100		75 - 120					10/22/14 13:37	50
Toluene-d8 (Surr)	97		75 - 120					10/22/14 13:37	50

Client Sample ID: MP-13 (121-125)

Lab Sample ID: 500-86169-5

Date Collected: 10/14/14 16:59

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<2.5		10	2.5	ug/L			10/22/14 14:02	10
1,1,1-Trichloroethane	<2.0		10	2.0	ug/L			10/22/14 14:02	10
1,1,2,2-Tetrachloroethane	<2.3		10	2.3	ug/L			10/22/14 14:02	10
1,1,2-Trichloroethane	<2.8		10	2.8	ug/L			10/22/14 14:02	10
1,1-Dichloroethane	<1.9		10	1.9	ug/L			10/22/14 14:02	10
1,1-Dichloroethene	<3.1		10	3.1	ug/L			10/22/14 14:02	10
1,1-Dichloropropene	<3.4		10	3.4	ug/L			10/22/14 14:02	10
1,2,3-Trichlorobenzene	<2.4		10	2.4	ug/L			10/22/14 14:02	10
1,2,3-Trichloropropane	<4.5		10	4.5	ug/L			10/22/14 14:02	10
1,2,4-Trichlorobenzene	<3.1		10	3.1	ug/L			10/22/14 14:02	10
1,2,4-Trimethylbenzene	<1.4		10	1.4	ug/L			10/22/14 14:02	10
1,2-Dibromo-3-Chloropropane	<8.7		20	8.7	ug/L			10/22/14 14:02	10
1,2-Dibromoethane	<3.6		10	3.6	ug/L			10/22/14 14:02	10
1,2-Dichlorobenzene	<2.7		10	2.7	ug/L			10/22/14 14:02	10
1,2-Dichloroethane	<2.8		10	2.8	ug/L			10/22/14 14:02	10
1,2-Dichloropropane	<2.0		10	2.0	ug/L			10/22/14 14:02	10
1,3,5-Trimethylbenzene	<1.8		10	1.8	ug/L			10/22/14 14:02	10
1,3-Dichlorobenzene	<1.5		10	1.5	ug/L			10/22/14 14:02	10
1,3-Dichloropropane	<1.3		10	1.3	ug/L			10/22/14 14:02	10
1,4-Dichlorobenzene	<1.5		10	1.5	ug/L			10/22/14 14:02	10
2,2-Dichloropropane	<3.2		10	3.2	ug/L			10/22/14 14:02	10
2-Chlorotoluene	<2.1		10	2.1	ug/L			10/22/14 14:02	10
4-Chlorotoluene	<2.0		10	2.0	ug/L			10/22/14 14:02	10
Benzene	<0.74		5.0	0.74	ug/L			10/22/14 14:02	10
Bromobenzene	<2.5		10	2.5	ug/L			10/22/14 14:02	10
Bromochloromethane	<4.0		10	4.0	ug/L			10/22/14 14:02	10
Bromodichloromethane	<1.7		10	1.7	ug/L			10/22/14 14:02	10
Bromoform	<2.8		10	2.8	ug/L			10/22/14 14:02	10
Bromomethane	<3.1 *		10	3.1	ug/L			10/22/14 14:02	10
Carbon tetrachloride	<2.6		10	2.6	ug/L			10/22/14 14:02	10
Chlorobenzene	<1.4		10	1.4	ug/L			10/22/14 14:02	10
Chloroethane	<3.4 *		10	3.4	ug/L			10/22/14 14:02	10
Chloroform	<2.0		10	2.0	ug/L			10/22/14 14:02	10
Chloromethane	<1.8		10	1.8	ug/L			10/22/14 14:02	10
cis-1,2-Dichloroethene	630		10	1.2	ug/L			10/22/14 14:02	10
cis-1,3-Dichloropropene	<1.8		10	1.8	ug/L			10/22/14 14:02	10

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MP-13 (121-125)

Lab Sample ID: 500-86169-5

Date Collected: 10/14/14 16:59

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<3.2		10	3.2	ug/L			10/22/14 14:02	10
Dibromomethane	<3.3		10	3.3	ug/L			10/22/14 14:02	10
Dichlorodifluoromethane	<2.0		10	2.0	ug/L			10/22/14 14:02	10
Ethylbenzene	<1.3		5.0	1.3	ug/L			10/22/14 14:02	10
Hexachlorobutadiene	<2.6		10	2.6	ug/L			10/22/14 14:02	10
Isopropyl ether	<1.5		10	1.5	ug/L			10/22/14 14:02	10
Isopropylbenzene	<1.4		10	1.4	ug/L			10/22/14 14:02	10
Methyl tert-butyl ether	<2.4		10	2.4	ug/L			10/22/14 14:02	10
Methylene Chloride	<6.8		50	6.8	ug/L			10/22/14 14:02	10
Naphthalene	<1.6		10	1.6	ug/L			10/22/14 14:02	10
n-Butylbenzene	<1.3		10	1.3	ug/L			10/22/14 14:02	10
N-Propylbenzene	<1.3		10	1.3	ug/L			10/22/14 14:02	10
p-Isopropyltoluene	<1.7		10	1.7	ug/L			10/22/14 14:02	10
sec-Butylbenzene	<1.5		10	1.5	ug/L			10/22/14 14:02	10
Styrene	<1.0		10	1.0	ug/L			10/22/14 14:02	10
tert-Butylbenzene	<1.4		10	1.4	ug/L			10/22/14 14:02	10
Toluene	<1.1		5.0	1.1	ug/L			10/22/14 14:02	10
trans-1,2-Dichloroethene	6.7	J	10	2.5	ug/L			10/22/14 14:02	10
trans-1,3-Dichloropropene	<2.1		10	2.1	ug/L			10/22/14 14:02	10
Trichloroethene	520		5.0	1.9	ug/L			10/22/14 14:02	10
Trichlorofluoromethane	<1.9		10	1.9	ug/L			10/22/14 14:02	10
Vinyl chloride	<1.0		5.0	1.0	ug/L			10/22/14 14:02	10
Xylenes, Total	<0.68		10	0.68	ug/L			10/22/14 14:02	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		75 - 125		10/22/14 14:02	10
4-Bromofluorobenzene (Surr)	78		75 - 120		10/22/14 14:02	10
Dibromofluoromethane	97		75 - 120		10/22/14 14:02	10
Toluene-d8 (Surr)	96		75 - 120		10/22/14 14:02	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	4800		100	17	ug/L			10/22/14 14:26	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		75 - 125		10/22/14 14:26	100
4-Bromofluorobenzene (Surr)	77		75 - 120		10/22/14 14:26	100
Dibromofluoromethane	97		75 - 120		10/22/14 14:26	100
Toluene-d8 (Surr)	97		75 - 120		10/22/14 14:26	100

Client Sample ID: MP-13 (67-71)

Lab Sample ID: 500-86169-6

Date Collected: 10/14/14 16:24

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.3		5.0	1.3	ug/L			10/22/14 14:52	5
1,1,1-Trichloroethane	<1.0		5.0	1.0	ug/L			10/22/14 14:52	5
1,1,2,2-Tetrachloroethane	<1.2		5.0	1.2	ug/L			10/22/14 14:52	5
1,1,2-Trichloroethane	<1.4		5.0	1.4	ug/L			10/22/14 14:52	5

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MP-13 (67-71)

Lab Sample ID: 500-86169-6

Date Collected: 10/14/14 16:24

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.95		5.0	0.95	ug/L			10/22/14 14:52	5
1,1-Dichloroethene	<1.6		5.0	1.6	ug/L			10/22/14 14:52	5
1,1-Dichloropropene	<1.7		5.0	1.7	ug/L			10/22/14 14:52	5
1,2,3-Trichlorobenzene	<1.2		5.0	1.2	ug/L			10/22/14 14:52	5
1,2,3-Trichloropropane	<2.3		5.0	2.3	ug/L			10/22/14 14:52	5
1,2,4-Trichlorobenzene	<1.6		5.0	1.6	ug/L			10/22/14 14:52	5
1,2,4-Trimethylbenzene	<0.70		5.0	0.70	ug/L			10/22/14 14:52	5
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/L			10/22/14 14:52	5
1,2-Dibromoethane	<1.8		5.0	1.8	ug/L			10/22/14 14:52	5
1,2-Dichlorobenzene	<1.4		5.0	1.4	ug/L			10/22/14 14:52	5
1,2-Dichloroethane	<1.4		5.0	1.4	ug/L			10/22/14 14:52	5
1,2-Dichloropropane	<1.0		5.0	1.0	ug/L			10/22/14 14:52	5
1,3,5-Trimethylbenzene	<0.90		5.0	0.90	ug/L			10/22/14 14:52	5
1,3-Dichlorobenzene	<0.75		5.0	0.75	ug/L			10/22/14 14:52	5
1,3-Dichloropropane	<0.65		5.0	0.65	ug/L			10/22/14 14:52	5
1,4-Dichlorobenzene	<0.75		5.0	0.75	ug/L			10/22/14 14:52	5
2,2-Dichloropropane	<1.6		5.0	1.6	ug/L			10/22/14 14:52	5
2-Chlorotoluene	<1.1		5.0	1.1	ug/L			10/22/14 14:52	5
4-Chlorotoluene	<1.0		5.0	1.0	ug/L			10/22/14 14:52	5
Benzene	<0.37		2.5	0.37	ug/L			10/22/14 14:52	5
Bromobenzene	<1.3		5.0	1.3	ug/L			10/22/14 14:52	5
Bromochloromethane	<2.0		5.0	2.0	ug/L			10/22/14 14:52	5
Bromodichloromethane	<0.85		5.0	0.85	ug/L			10/22/14 14:52	5
Bromoform	<1.4		5.0	1.4	ug/L			10/22/14 14:52	5
Bromomethane	<1.6 *		5.0	1.6	ug/L			10/22/14 14:52	5
Carbon tetrachloride	<1.3		5.0	1.3	ug/L			10/22/14 14:52	5
Chlorobenzene	<0.70		5.0	0.70	ug/L			10/22/14 14:52	5
Chloroethane	<1.7 *		5.0	1.7	ug/L			10/22/14 14:52	5
Chloroform	<1.0		5.0	1.0	ug/L			10/22/14 14:52	5
Chloromethane	<0.90		5.0	0.90	ug/L			10/22/14 14:52	5
cis-1,2-Dichloroethene	810		5.0	0.60	ug/L			10/22/14 14:52	5
cis-1,3-Dichloropropane	<0.90		5.0	0.90	ug/L			10/22/14 14:52	5
Dibromochloromethane	<1.6		5.0	1.6	ug/L			10/22/14 14:52	5
Dibromomethane	<1.7		5.0	1.7	ug/L			10/22/14 14:52	5
Dichlorodifluoromethane	<1.0		5.0	1.0	ug/L			10/22/14 14:52	5
Ethylbenzene	<0.65		2.5	0.65	ug/L			10/22/14 14:52	5
Hexachlorobutadiene	<1.3		5.0	1.3	ug/L			10/22/14 14:52	5
Isopropyl ether	<0.75		5.0	0.75	ug/L			10/22/14 14:52	5
Isopropylbenzene	<0.70		5.0	0.70	ug/L			10/22/14 14:52	5
Methyl tert-butyl ether	<1.2		5.0	1.2	ug/L			10/22/14 14:52	5
Methylene Chloride	<3.4		25	3.4	ug/L			10/22/14 14:52	5
Naphthalene	<0.80		5.0	0.80	ug/L			10/22/14 14:52	5
n-Butylbenzene	<0.65		5.0	0.65	ug/L			10/22/14 14:52	5
N-Propylbenzene	<0.65		5.0	0.65	ug/L			10/22/14 14:52	5
p-Isopropyltoluene	<0.85		5.0	0.85	ug/L			10/22/14 14:52	5
sec-Butylbenzene	<0.75		5.0	0.75	ug/L			10/22/14 14:52	5
Styrene	<0.50		5.0	0.50	ug/L			10/22/14 14:52	5
tert-Butylbenzene	<0.70		5.0	0.70	ug/L			10/22/14 14:52	5
Toluene	<0.55		2.5	0.55	ug/L			10/22/14 14:52	5

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MP-13 (67-71)

Lab Sample ID: 500-86169-6

Date Collected: 10/14/14 16:24

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	12		5.0	1.3	ug/L			10/22/14 14:52	5
trans-1,3-Dichloropropene	<1.1		5.0	1.1	ug/L			10/22/14 14:52	5
Trichloroethene	260		2.5	0.95	ug/L			10/22/14 14:52	5
Trichlorofluoromethane	<0.95		5.0	0.95	ug/L			10/22/14 14:52	5
Vinyl chloride	45		2.5	0.50	ug/L			10/22/14 14:52	5
Xylenes, Total	<0.34		5.0	0.34	ug/L			10/22/14 14:52	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		75 - 125		10/22/14 14:52	5
4-Bromofluorobenzene (Surr)	77		75 - 120		10/22/14 14:52	5
Dibromofluoromethane	98		75 - 120		10/22/14 14:52	5
Toluene-d8 (Surr)	95		75 - 120		10/22/14 14:52	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1600		50	8.5	ug/L			10/22/14 15:16	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		75 - 125		10/22/14 15:16	50
4-Bromofluorobenzene (Surr)	77		75 - 120		10/22/14 15:16	50
Dibromofluoromethane	97		75 - 120		10/22/14 15:16	50
Toluene-d8 (Surr)	98		75 - 120		10/22/14 15:16	50

Client Sample ID: MP-13 (135-139)

Lab Sample ID: 500-86169-7

Date Collected: 10/14/14 14:02

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<2.5		10	2.5	ug/L			10/22/14 15:41	10
1,1,1-Trichloroethane	<2.0		10	2.0	ug/L			10/22/14 15:41	10
1,1,2,2-Tetrachloroethane	<2.3		10	2.3	ug/L			10/22/14 15:41	10
1,1,2-Trichloroethane	<2.8		10	2.8	ug/L			10/22/14 15:41	10
1,1-Dichloroethane	<1.9		10	1.9	ug/L			10/22/14 15:41	10
1,1-Dichloroethene	<3.1		10	3.1	ug/L			10/22/14 15:41	10
1,1-Dichloropropene	<3.4		10	3.4	ug/L			10/22/14 15:41	10
1,2,3-Trichlorobenzene	<2.4		10	2.4	ug/L			10/22/14 15:41	10
1,2,3-Trichloropropane	<4.5		10	4.5	ug/L			10/22/14 15:41	10
1,2,4-Trichlorobenzene	<3.1		10	3.1	ug/L			10/22/14 15:41	10
1,2,4-Trimethylbenzene	<1.4		10	1.4	ug/L			10/22/14 15:41	10
1,2-Dibromo-3-Chloropropane	<8.7		20	8.7	ug/L			10/22/14 15:41	10
1,2-Dibromoethane	<3.6		10	3.6	ug/L			10/22/14 15:41	10
1,2-Dichlorobenzene	<2.7		10	2.7	ug/L			10/22/14 15:41	10
1,2-Dichloroethane	<2.8		10	2.8	ug/L			10/22/14 15:41	10
1,2-Dichloropropane	<2.0		10	2.0	ug/L			10/22/14 15:41	10
1,3,5-Trimethylbenzene	<1.8		10	1.8	ug/L			10/22/14 15:41	10
1,3-Dichlorobenzene	<1.5		10	1.5	ug/L			10/22/14 15:41	10
1,3-Dichloropropane	<1.3		10	1.3	ug/L			10/22/14 15:41	10
1,4-Dichlorobenzene	<1.5		10	1.5	ug/L			10/22/14 15:41	10
2,2-Dichloropropane	<3.2		10	3.2	ug/L			10/22/14 15:41	10

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MP-13 (135-139)

Lab Sample ID: 500-86169-7

Date Collected: 10/14/14 14:02

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	<2.1		10	2.1	ug/L			10/22/14 15:41	10
4-Chlorotoluene	<2.0		10	2.0	ug/L			10/22/14 15:41	10
Benzene	<0.74		5.0	0.74	ug/L			10/22/14 15:41	10
Bromobenzene	<2.5		10	2.5	ug/L			10/22/14 15:41	10
Bromochloromethane	<4.0		10	4.0	ug/L			10/22/14 15:41	10
Bromodichloromethane	<1.7		10	1.7	ug/L			10/22/14 15:41	10
Bromoform	<2.8		10	2.8	ug/L			10/22/14 15:41	10
Bromomethane	<3.1 *		10	3.1	ug/L			10/22/14 15:41	10
Carbon tetrachloride	<2.6		10	2.6	ug/L			10/22/14 15:41	10
Chlorobenzene	<1.4		10	1.4	ug/L			10/22/14 15:41	10
Chloroethane	<3.4 *		10	3.4	ug/L			10/22/14 15:41	10
Chloroform	<2.0		10	2.0	ug/L			10/22/14 15:41	10
Chloromethane	<1.8		10	1.8	ug/L			10/22/14 15:41	10
cis-1,2-Dichloroethene	330		10	1.2	ug/L			10/22/14 15:41	10
cis-1,3-Dichloropropene	<1.8		10	1.8	ug/L			10/22/14 15:41	10
Dibromochloromethane	<3.2		10	3.2	ug/L			10/22/14 15:41	10
Dibromomethane	<3.3		10	3.3	ug/L			10/22/14 15:41	10
Dichlorodifluoromethane	<2.0		10	2.0	ug/L			10/22/14 15:41	10
Ethylbenzene	<1.3		5.0	1.3	ug/L			10/22/14 15:41	10
Hexachlorobutadiene	<2.6		10	2.6	ug/L			10/22/14 15:41	10
Isopropyl ether	<1.5		10	1.5	ug/L			10/22/14 15:41	10
Isopropylbenzene	<1.4		10	1.4	ug/L			10/22/14 15:41	10
Methyl tert-butyl ether	<2.4		10	2.4	ug/L			10/22/14 15:41	10
Methylene Chloride	<6.8		50	6.8	ug/L			10/22/14 15:41	10
Naphthalene	<1.6		10	1.6	ug/L			10/22/14 15:41	10
n-Butylbenzene	<1.3		10	1.3	ug/L			10/22/14 15:41	10
N-Propylbenzene	<1.3		10	1.3	ug/L			10/22/14 15:41	10
p-Isopropyltoluene	<1.7		10	1.7	ug/L			10/22/14 15:41	10
sec-Butylbenzene	<1.5		10	1.5	ug/L			10/22/14 15:41	10
Styrene	<1.0		10	1.0	ug/L			10/22/14 15:41	10
tert-Butylbenzene	<1.4		10	1.4	ug/L			10/22/14 15:41	10
Toluene	<1.1		5.0	1.1	ug/L			10/22/14 15:41	10
trans-1,2-Dichloroethene	<2.5		10	2.5	ug/L			10/22/14 15:41	10
trans-1,3-Dichloropropene	<2.1		10	2.1	ug/L			10/22/14 15:41	10
Trichloroethene	270		5.0	1.9	ug/L			10/22/14 15:41	10
Trichlorofluoromethane	<1.9		10	1.9	ug/L			10/22/14 15:41	10
Vinyl chloride	3.7 J		5.0	1.0	ug/L			10/22/14 15:41	10
Xylenes, Total	<0.68		10	0.68	ug/L			10/22/14 15:41	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		75 - 125		10/22/14 15:41	10
4-Bromofluorobenzene (Surr)	77		75 - 120		10/22/14 15:41	10
Dibromofluoromethane	96		75 - 120		10/22/14 15:41	10
Toluene-d8 (Surr)	96		75 - 120		10/22/14 15:41	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	6300		100	17	ug/L			10/22/14 16:06	100

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MP-13 (135-139)

Lab Sample ID: 500-86169-7

Date Collected: 10/14/14 14:02

Matrix: Water

Date Received: 10/16/14 10:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		75 - 125		10/22/14 16:06	100
4-Bromofluorobenzene (Surr)	79		75 - 120		10/22/14 16:06	100
Dibromofluoromethane	99		75 - 120		10/22/14 16:06	100
Toluene-d8 (Surr)	98		75 - 120		10/22/14 16:06	100

Client Sample ID: MP-13 (163-167)

Lab Sample ID: 500-86169-8

Date Collected: 10/14/14 13:25

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			10/23/14 21:49	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			10/23/14 21:49	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			10/23/14 21:49	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			10/23/14 21:49	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			10/23/14 21:49	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			10/23/14 21:49	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			10/23/14 21:49	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			10/23/14 21:49	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			10/23/14 21:49	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			10/23/14 21:49	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			10/23/14 21:49	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			10/23/14 21:49	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			10/23/14 21:49	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			10/23/14 21:49	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			10/23/14 21:49	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			10/23/14 21:49	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			10/23/14 21:49	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/23/14 21:49	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			10/23/14 21:49	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/23/14 21:49	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			10/23/14 21:49	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			10/23/14 21:49	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			10/23/14 21:49	2
Benzene	<0.15		1.0	0.15	ug/L			10/23/14 21:49	2
Bromobenzene	<0.50		2.0	0.50	ug/L			10/23/14 21:49	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			10/23/14 21:49	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			10/23/14 21:49	2
Bromoform	<0.56		2.0	0.56	ug/L			10/23/14 21:49	2
Bromomethane	<0.62 *		2.0	0.62	ug/L			10/23/14 21:49	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			10/23/14 21:49	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			10/23/14 21:49	2
Chloroethane	<0.68 *		2.0	0.68	ug/L			10/23/14 21:49	2
Chloroform	<0.40		2.0	0.40	ug/L			10/23/14 21:49	2
Chloromethane	<0.36		2.0	0.36	ug/L			10/23/14 21:49	2
cis-1,2-Dichloroethene	160		2.0	0.24	ug/L			10/23/14 21:49	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			10/23/14 21:49	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			10/23/14 21:49	2
Dibromomethane	<0.66		2.0	0.66	ug/L			10/23/14 21:49	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			10/23/14 21:49	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MP-13 (163-167)

Lab Sample ID: 500-86169-8

Date Collected: 10/14/14 13:25

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.26		1.0	0.26	ug/L			10/23/14 21:49	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			10/23/14 21:49	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			10/23/14 21:49	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			10/23/14 21:49	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			10/23/14 21:49	2
Methylene Chloride	<1.4		10	1.4	ug/L			10/23/14 21:49	2
Naphthalene	<0.32		2.0	0.32	ug/L			10/23/14 21:49	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			10/23/14 21:49	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			10/23/14 21:49	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			10/23/14 21:49	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			10/23/14 21:49	2
Styrene	<0.20		2.0	0.20	ug/L			10/23/14 21:49	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			10/23/14 21:49	2
Toluene	<0.22		1.0	0.22	ug/L			10/23/14 21:49	2
trans-1,2-Dichloroethene	1.9	J	2.0	0.50	ug/L			10/23/14 21:49	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			10/23/14 21:49	2
Trichloroethene	100		1.0	0.38	ug/L			10/23/14 21:49	2
Trichlorofluoromethane	<0.38	*	2.0	0.38	ug/L			10/23/14 21:49	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/23/14 21:49	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			10/23/14 21:49	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 125		10/23/14 21:49	2
4-Bromofluorobenzene (Surr)	75		75 - 120		10/23/14 21:49	2
Dibromofluoromethane	98		75 - 120		10/23/14 21:49	2
Toluene-d8 (Surr)	94		75 - 120		10/23/14 21:49	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	930		5.0	0.85	ug/L			10/22/14 16:31	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		75 - 125		10/22/14 16:31	5
4-Bromofluorobenzene (Surr)	78		75 - 120		10/22/14 16:31	5
Dibromofluoromethane	99		75 - 120		10/22/14 16:31	5
Toluene-d8 (Surr)	97		75 - 120		10/22/14 16:31	5

Client Sample ID: MW-24

Lab Sample ID: 500-86169-9

Date Collected: 10/14/14 17:10

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/22/14 17:21	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/22/14 17:21	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/22/14 17:21	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/22/14 17:21	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/22/14 17:21	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/22/14 17:21	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/22/14 17:21	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MW-24

Lab Sample ID: 500-86169-9

Date Collected: 10/14/14 17:10

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/22/14 17:21	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/22/14 17:21	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/22/14 17:21	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 17:21	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/22/14 17:21	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/22/14 17:21	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/22/14 17:21	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/22/14 17:21	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/22/14 17:21	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/22/14 17:21	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/22/14 17:21	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/22/14 17:21	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/22/14 17:21	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/22/14 17:21	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/22/14 17:21	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/22/14 17:21	1
Benzene	<0.074		0.50	0.074	ug/L			10/22/14 17:21	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/22/14 17:21	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/22/14 17:21	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/22/14 17:21	1
Bromoform	<0.28		1.0	0.28	ug/L			10/22/14 17:21	1
Bromomethane	<0.31 *		1.0	0.31	ug/L			10/22/14 17:21	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/22/14 17:21	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/22/14 17:21	1
Chloroethane	<0.34 *		1.0	0.34	ug/L			10/22/14 17:21	1
Chloroform	<0.20		1.0	0.20	ug/L			10/22/14 17:21	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/22/14 17:21	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/22/14 17:21	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/22/14 17:21	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/14 17:21	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/22/14 17:21	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/22/14 17:21	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/22/14 17:21	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/22/14 17:21	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/22/14 17:21	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 17:21	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/22/14 17:21	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/22/14 17:21	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/22/14 17:21	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/22/14 17:21	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/22/14 17:21	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/22/14 17:21	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/22/14 17:21	1
Styrene	<0.10		1.0	0.10	ug/L			10/22/14 17:21	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 17:21	1
Tetrachloroethene	0.83 J		1.0	0.17	ug/L			10/22/14 17:21	1
Toluene	<0.11		0.50	0.11	ug/L			10/22/14 17:21	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/22/14 17:21	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/22/14 17:21	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MW-24

Lab Sample ID: 500-86169-9

Date Collected: 10/14/14 17:10

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.19		0.50	0.19	ug/L			10/22/14 17:21	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/22/14 17:21	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/22/14 17:21	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/22/14 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		75 - 125					10/22/14 17:21	1
4-Bromofluorobenzene (Surr)	78		75 - 120					10/22/14 17:21	1
Dibromofluoromethane	98		75 - 120					10/22/14 17:21	1
Toluene-d8 (Surr)	97		75 - 120					10/22/14 17:21	1

Client Sample ID: MW-9D

Lab Sample ID: 500-86169-10

Date Collected: 10/14/14 14:50

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/22/14 17:46	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/22/14 17:46	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/22/14 17:46	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/22/14 17:46	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/22/14 17:46	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/22/14 17:46	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/22/14 17:46	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/22/14 17:46	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/22/14 17:46	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/22/14 17:46	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 17:46	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/22/14 17:46	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/22/14 17:46	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/22/14 17:46	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/22/14 17:46	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/22/14 17:46	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/22/14 17:46	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/22/14 17:46	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/22/14 17:46	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/22/14 17:46	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/22/14 17:46	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/22/14 17:46	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/22/14 17:46	1
Benzene	<0.074		0.50	0.074	ug/L			10/22/14 17:46	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/22/14 17:46	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/22/14 17:46	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/22/14 17:46	1
Bromoform	<0.28		1.0	0.28	ug/L			10/22/14 17:46	1
Bromomethane	<0.31 *		1.0	0.31	ug/L			10/22/14 17:46	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/22/14 17:46	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/22/14 17:46	1
Chloroethane	<0.34 *		1.0	0.34	ug/L			10/22/14 17:46	1
Chloroform	<0.20		1.0	0.20	ug/L			10/22/14 17:46	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MW-9D

Lab Sample ID: 500-86169-10

Date Collected: 10/14/14 14:50

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<0.18		1.0	0.18	ug/L			10/22/14 17:46	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/22/14 17:46	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/22/14 17:46	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/14 17:46	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/22/14 17:46	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/22/14 17:46	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/22/14 17:46	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/22/14 17:46	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/22/14 17:46	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 17:46	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/22/14 17:46	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/22/14 17:46	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/22/14 17:46	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/22/14 17:46	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/22/14 17:46	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/22/14 17:46	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/22/14 17:46	1
Styrene	<0.10		1.0	0.10	ug/L			10/22/14 17:46	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 17:46	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/22/14 17:46	1
Toluene	<0.11		0.50	0.11	ug/L			10/22/14 17:46	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/22/14 17:46	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/22/14 17:46	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/22/14 17:46	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/22/14 17:46	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/22/14 17:46	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/22/14 17:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		75 - 125		10/22/14 17:46	1
4-Bromofluorobenzene (Surr)	77		75 - 120		10/22/14 17:46	1
Dibromofluoromethane	98		75 - 120		10/22/14 17:46	1
Toluene-d8 (Surr)	98		75 - 120		10/22/14 17:46	1

Client Sample ID: MW-9D2

Lab Sample ID: 500-86169-11

Date Collected: 10/14/14 13:50

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/22/14 18:11	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/22/14 18:11	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/22/14 18:11	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/22/14 18:11	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/22/14 18:11	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/22/14 18:11	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/22/14 18:11	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/22/14 18:11	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/22/14 18:11	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/22/14 18:11	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MW-9D2

Lab Sample ID: 500-86169-11

Date Collected: 10/14/14 13:50

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 18:11	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/22/14 18:11	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/22/14 18:11	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/22/14 18:11	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/22/14 18:11	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/22/14 18:11	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/22/14 18:11	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/22/14 18:11	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/22/14 18:11	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/22/14 18:11	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/22/14 18:11	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/22/14 18:11	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/22/14 18:11	1
Benzene	<0.074		0.50	0.074	ug/L			10/22/14 18:11	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/22/14 18:11	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/22/14 18:11	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/22/14 18:11	1
Bromoform	<0.28		1.0	0.28	ug/L			10/22/14 18:11	1
Bromomethane	<0.31 *		1.0	0.31	ug/L			10/22/14 18:11	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/22/14 18:11	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/22/14 18:11	1
Chloroethane	<0.34 *		1.0	0.34	ug/L			10/22/14 18:11	1
Chloroform	<0.20		1.0	0.20	ug/L			10/22/14 18:11	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/22/14 18:11	1
cis-1,2-Dichloroethene	24		1.0	0.12	ug/L			10/22/14 18:11	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/22/14 18:11	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/14 18:11	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/22/14 18:11	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/22/14 18:11	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/22/14 18:11	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/22/14 18:11	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/22/14 18:11	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 18:11	1
Methyl tert-butyl ether	12		1.0	0.24	ug/L			10/22/14 18:11	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/22/14 18:11	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/22/14 18:11	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/22/14 18:11	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/22/14 18:11	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/22/14 18:11	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/22/14 18:11	1
Styrene	<0.10		1.0	0.10	ug/L			10/22/14 18:11	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 18:11	1
Tetrachloroethene	41		1.0	0.17	ug/L			10/22/14 18:11	1
Toluene	<0.11		0.50	0.11	ug/L			10/22/14 18:11	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/22/14 18:11	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/22/14 18:11	1
Trichloroethene	9.6		0.50	0.19	ug/L			10/22/14 18:11	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/22/14 18:11	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/22/14 18:11	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MW-9D2

Lab Sample ID: 500-86169-11

Date Collected: 10/14/14 13:50

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/22/14 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 125					10/22/14 18:11	1
4-Bromofluorobenzene (Surr)	77		75 - 120					10/22/14 18:11	1
Dibromofluoromethane	98		75 - 120					10/22/14 18:11	1
Toluene-d8 (Surr)	97		75 - 120					10/22/14 18:11	1

Client Sample ID: MW-26S

Lab Sample ID: 500-86169-12

Date Collected: 10/15/14 09:45

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/22/14 18:35	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/22/14 18:35	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/22/14 18:35	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/22/14 18:35	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/22/14 18:35	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/22/14 18:35	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/22/14 18:35	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/22/14 18:35	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/22/14 18:35	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/22/14 18:35	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 18:35	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/22/14 18:35	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/22/14 18:35	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/22/14 18:35	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/22/14 18:35	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/22/14 18:35	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/22/14 18:35	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/22/14 18:35	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/22/14 18:35	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/22/14 18:35	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/22/14 18:35	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/22/14 18:35	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/22/14 18:35	1
Benzene	<0.074		0.50	0.074	ug/L			10/22/14 18:35	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/22/14 18:35	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/22/14 18:35	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/22/14 18:35	1
Bromoform	<0.28		1.0	0.28	ug/L			10/22/14 18:35	1
Bromomethane	<0.31 *		1.0	0.31	ug/L			10/22/14 18:35	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/22/14 18:35	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/22/14 18:35	1
Chloroethane	<0.34 *		1.0	0.34	ug/L			10/22/14 18:35	1
Chloroform	<0.20		1.0	0.20	ug/L			10/22/14 18:35	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/22/14 18:35	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/22/14 18:35	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/22/14 18:35	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MW-26S

Lab Sample ID: 500-86169-12

Date Collected: 10/15/14 09:45

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/14 18:35	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/22/14 18:35	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/22/14 18:35	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/22/14 18:35	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/22/14 18:35	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/22/14 18:35	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 18:35	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/22/14 18:35	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/22/14 18:35	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/22/14 18:35	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/22/14 18:35	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/22/14 18:35	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/22/14 18:35	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/22/14 18:35	1
Styrene	<0.10		1.0	0.10	ug/L			10/22/14 18:35	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 18:35	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/22/14 18:35	1
Toluene	<0.11		0.50	0.11	ug/L			10/22/14 18:35	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/22/14 18:35	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/22/14 18:35	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/22/14 18:35	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/22/14 18:35	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/22/14 18:35	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/22/14 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 125		10/22/14 18:35	1
4-Bromofluorobenzene (Surr)	77		75 - 120		10/22/14 18:35	1
Dibromofluoromethane	101		75 - 120		10/22/14 18:35	1
Toluene-d8 (Surr)	98		75 - 120		10/22/14 18:35	1

Client Sample ID: MW-3D

Lab Sample ID: 500-86169-13

Date Collected: 10/15/14 12:10

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			10/22/14 19:00	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			10/22/14 19:00	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			10/22/14 19:00	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			10/22/14 19:00	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			10/22/14 19:00	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			10/22/14 19:00	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			10/22/14 19:00	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			10/22/14 19:00	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			10/22/14 19:00	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			10/22/14 19:00	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			10/22/14 19:00	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			10/22/14 19:00	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			10/22/14 19:00	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MW-3D

Lab Sample ID: 500-86169-13

Date Collected: 10/15/14 12:10

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			10/22/14 19:00	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			10/22/14 19:00	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			10/22/14 19:00	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			10/22/14 19:00	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/22/14 19:00	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			10/22/14 19:00	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/22/14 19:00	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			10/22/14 19:00	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			10/22/14 19:00	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			10/22/14 19:00	2
Benzene	<0.15		1.0	0.15	ug/L			10/22/14 19:00	2
Bromobenzene	<0.50		2.0	0.50	ug/L			10/22/14 19:00	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			10/22/14 19:00	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			10/22/14 19:00	2
Bromoform	<0.56		2.0	0.56	ug/L			10/22/14 19:00	2
Bromomethane	<0.62 *		2.0	0.62	ug/L			10/22/14 19:00	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			10/22/14 19:00	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			10/22/14 19:00	2
Chloroethane	<0.68 *		2.0	0.68	ug/L			10/22/14 19:00	2
Chloroform	<0.40		2.0	0.40	ug/L			10/22/14 19:00	2
Chloromethane	<0.36		2.0	0.36	ug/L			10/22/14 19:00	2
cis-1,2-Dichloroethene	150		2.0	0.24	ug/L			10/22/14 19:00	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			10/22/14 19:00	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			10/22/14 19:00	2
Dibromomethane	<0.66		2.0	0.66	ug/L			10/22/14 19:00	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			10/22/14 19:00	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			10/22/14 19:00	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			10/22/14 19:00	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			10/22/14 19:00	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			10/22/14 19:00	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			10/22/14 19:00	2
Methylene Chloride	<1.4		10	1.4	ug/L			10/22/14 19:00	2
Naphthalene	<0.32		2.0	0.32	ug/L			10/22/14 19:00	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			10/22/14 19:00	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			10/22/14 19:00	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			10/22/14 19:00	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			10/22/14 19:00	2
Styrene	<0.20		2.0	0.20	ug/L			10/22/14 19:00	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			10/22/14 19:00	2
Toluene	<0.22		1.0	0.22	ug/L			10/22/14 19:00	2
trans-1,2-Dichloroethene	6.7		2.0	0.50	ug/L			10/22/14 19:00	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			10/22/14 19:00	2
Trichloroethene	120		1.0	0.38	ug/L			10/22/14 19:00	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			10/22/14 19:00	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/22/14 19:00	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			10/22/14 19:00	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		75 - 125		10/22/14 19:00	2
4-Bromofluorobenzene (Surr)	77		75 - 120		10/22/14 19:00	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MW-3D

Lab Sample ID: 500-86169-13

Date Collected: 10/15/14 12:10

Matrix: Water

Date Received: 10/16/14 10:10

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	98		75 - 120		10/22/14 19:00	2
Toluene-d8 (Surr)	95		75 - 120		10/22/14 19:00	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	750		20	3.4	ug/L			10/22/14 19:25	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		75 - 125		10/22/14 19:25	20
4-Bromofluorobenzene (Surr)	76		75 - 120		10/22/14 19:25	20
Dibromofluoromethane	100		75 - 120		10/22/14 19:25	20
Toluene-d8 (Surr)	97		75 - 120		10/22/14 19:25	20

Client Sample ID: MW-19D2

Lab Sample ID: 500-86169-14

Date Collected: 10/15/14 16:15

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			10/22/14 19:50	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			10/22/14 19:50	2
1,1,1,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			10/22/14 19:50	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			10/22/14 19:50	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			10/22/14 19:50	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			10/22/14 19:50	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			10/22/14 19:50	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			10/22/14 19:50	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			10/22/14 19:50	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			10/22/14 19:50	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			10/22/14 19:50	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			10/22/14 19:50	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			10/22/14 19:50	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			10/22/14 19:50	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			10/22/14 19:50	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			10/22/14 19:50	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			10/22/14 19:50	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/22/14 19:50	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			10/22/14 19:50	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/22/14 19:50	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			10/22/14 19:50	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			10/22/14 19:50	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			10/22/14 19:50	2
Benzene	<0.15		1.0	0.15	ug/L			10/22/14 19:50	2
Bromobenzene	<0.50		2.0	0.50	ug/L			10/22/14 19:50	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			10/22/14 19:50	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			10/22/14 19:50	2
Bromoform	4.9		2.0	0.56	ug/L			10/22/14 19:50	2
Bromomethane	<0.62	*	2.0	0.62	ug/L			10/22/14 19:50	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			10/22/14 19:50	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			10/22/14 19:50	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MW-19D2

Lab Sample ID: 500-86169-14

Date Collected: 10/15/14 16:15

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<0.68	*	2.0	0.68	ug/L			10/22/14 19:50	2
Chloroform	<0.40		2.0	0.40	ug/L			10/22/14 19:50	2
Chloromethane	<0.36		2.0	0.36	ug/L			10/22/14 19:50	2
cis-1,2-Dichloroethene	<0.24		2.0	0.24	ug/L			10/22/14 19:50	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			10/22/14 19:50	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			10/22/14 19:50	2
Dibromomethane	<0.66		2.0	0.66	ug/L			10/22/14 19:50	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			10/22/14 19:50	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			10/22/14 19:50	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			10/22/14 19:50	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			10/22/14 19:50	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			10/22/14 19:50	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			10/22/14 19:50	2
Methylene Chloride	<1.4		10	1.4	ug/L			10/22/14 19:50	2
Naphthalene	<0.32		2.0	0.32	ug/L			10/22/14 19:50	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			10/22/14 19:50	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			10/22/14 19:50	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			10/22/14 19:50	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			10/22/14 19:50	2
Styrene	<0.20		2.0	0.20	ug/L			10/22/14 19:50	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			10/22/14 19:50	2
Tetrachloroethene	200		2.0	0.34	ug/L			10/22/14 19:50	2
Toluene	<0.22		1.0	0.22	ug/L			10/22/14 19:50	2
trans-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			10/22/14 19:50	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			10/22/14 19:50	2
Trichloroethene	<0.38		1.0	0.38	ug/L			10/22/14 19:50	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			10/22/14 19:50	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/22/14 19:50	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			10/22/14 19:50	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 125		10/22/14 19:50	2
4-Bromofluorobenzene (Surr)	78		75 - 120		10/22/14 19:50	2
Dibromofluoromethane	100		75 - 120		10/22/14 19:50	2
Toluene-d8 (Surr)	83		75 - 120		10/22/14 19:50	2

Client Sample ID: MW-19D2 Quenched

Lab Sample ID: 500-86169-15

Date Collected: 10/15/14 16:15

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			10/22/14 20:40	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			10/22/14 20:40	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			10/22/14 20:40	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			10/22/14 20:40	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			10/22/14 20:40	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			10/22/14 20:40	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			10/22/14 20:40	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			10/22/14 20:40	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MW-19D2 Quenched

Lab Sample ID: 500-86169-15

Date Collected: 10/15/14 16:15

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			10/22/14 20:40	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			10/22/14 20:40	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			10/22/14 20:40	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			10/22/14 20:40	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			10/22/14 20:40	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			10/22/14 20:40	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			10/22/14 20:40	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			10/22/14 20:40	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			10/22/14 20:40	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/22/14 20:40	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			10/22/14 20:40	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/22/14 20:40	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			10/22/14 20:40	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			10/22/14 20:40	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			10/22/14 20:40	2
Benzene	<0.15		1.0	0.15	ug/L			10/22/14 20:40	2
Bromobenzene	<0.50		2.0	0.50	ug/L			10/22/14 20:40	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			10/22/14 20:40	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			10/22/14 20:40	2
Bromoform	<0.56		2.0	0.56	ug/L			10/22/14 20:40	2
Bromomethane	<0.62 *		2.0	0.62	ug/L			10/22/14 20:40	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			10/22/14 20:40	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			10/22/14 20:40	2
Chloroethane	<0.68 *		2.0	0.68	ug/L			10/22/14 20:40	2
Chloroform	<0.40		2.0	0.40	ug/L			10/22/14 20:40	2
Chloromethane	<0.36		2.0	0.36	ug/L			10/22/14 20:40	2
cis-1,2-Dichloroethene	6.8		2.0	0.24	ug/L			10/22/14 20:40	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			10/22/14 20:40	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			10/22/14 20:40	2
Dibromomethane	<0.66		2.0	0.66	ug/L			10/22/14 20:40	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			10/22/14 20:40	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			10/22/14 20:40	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			10/22/14 20:40	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			10/22/14 20:40	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			10/22/14 20:40	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			10/22/14 20:40	2
Methylene Chloride	<1.4		10	1.4	ug/L			10/22/14 20:40	2
Naphthalene	<0.32		2.0	0.32	ug/L			10/22/14 20:40	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			10/22/14 20:40	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			10/22/14 20:40	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			10/22/14 20:40	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			10/22/14 20:40	2
Styrene	<0.20		2.0	0.20	ug/L			10/22/14 20:40	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			10/22/14 20:40	2
Toluene	<0.22		1.0	0.22	ug/L			10/22/14 20:40	2
trans-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			10/22/14 20:40	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			10/22/14 20:40	2
Trichloroethene	11		1.0	0.38	ug/L			10/22/14 20:40	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			10/22/14 20:40	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MW-19D2 Quenched

Lab Sample ID: 500-86169-15

Date Collected: 10/15/14 16:15

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/22/14 20:40	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			10/22/14 20:40	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		75 - 125					10/22/14 20:40	2
4-Bromofluorobenzene (Surr)	79		75 - 120					10/22/14 20:40	2
Dibromofluoromethane	100		75 - 120					10/22/14 20:40	2
Toluene-d8 (Surr)	96		75 - 120					10/22/14 20:40	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	620		20	3.4	ug/L			10/22/14 21:05	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		75 - 125					10/22/14 21:05	20
4-Bromofluorobenzene (Surr)	77		75 - 120					10/22/14 21:05	20
Dibromofluoromethane	99		75 - 120					10/22/14 21:05	20
Toluene-d8 (Surr)	96		75 - 120					10/22/14 21:05	20

Client Sample ID: Dup-4

Lab Sample ID: 500-86169-16

Date Collected: 10/14/14 00:00

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<5.0		20	5.0	ug/L			10/23/14 00:58	20
1,1,1-Trichloroethane	<4.0		20	4.0	ug/L			10/23/14 00:58	20
1,1,2,2-Tetrachloroethane	<4.6		20	4.6	ug/L			10/23/14 00:58	20
1,1,2-Trichloroethane	<5.6		20	5.6	ug/L			10/23/14 00:58	20
1,1-Dichloroethane	<3.8		20	3.8	ug/L			10/23/14 00:58	20
1,1-Dichloroethene	<6.2		20	6.2	ug/L			10/23/14 00:58	20
1,1-Dichloropropene	<6.8		20	6.8	ug/L			10/23/14 00:58	20
1,2,3-Trichlorobenzene	<4.8		20	4.8	ug/L			10/23/14 00:58	20
1,2,3-Trichloropropane	<9.0		20	9.0	ug/L			10/23/14 00:58	20
1,2,4-Trichlorobenzene	<6.2		20	6.2	ug/L			10/23/14 00:58	20
1,2,4-Trimethylbenzene	<2.8		20	2.8	ug/L			10/23/14 00:58	20
1,2-Dibromo-3-Chloropropane	<17		40	17	ug/L			10/23/14 00:58	20
1,2-Dibromoethane	<7.2		20	7.2	ug/L			10/23/14 00:58	20
1,2-Dichlorobenzene	<5.4		20	5.4	ug/L			10/23/14 00:58	20
1,2-Dichloroethane	<5.6		20	5.6	ug/L			10/23/14 00:58	20
1,2-Dichloropropane	<4.0		20	4.0	ug/L			10/23/14 00:58	20
1,3,5-Trimethylbenzene	<3.6		20	3.6	ug/L			10/23/14 00:58	20
1,3-Dichlorobenzene	<3.0		20	3.0	ug/L			10/23/14 00:58	20
1,3-Dichloropropane	<2.6		20	2.6	ug/L			10/23/14 00:58	20
1,4-Dichlorobenzene	<3.0		20	3.0	ug/L			10/23/14 00:58	20
2,2-Dichloropropane	<6.4		20	6.4	ug/L			10/23/14 00:58	20
2-Chlorotoluene	<4.2		20	4.2	ug/L			10/23/14 00:58	20
4-Chlorotoluene	<4.0		20	4.0	ug/L			10/23/14 00:58	20
Benzene	<1.5		10	1.5	ug/L			10/23/14 00:58	20
Bromobenzene	<5.0		20	5.0	ug/L			10/23/14 00:58	20

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: Dup-4

Lab Sample ID: 500-86169-16

Date Collected: 10/14/14 00:00

Matrix: Water

Date Received: 10/16/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	<8.0		20	8.0	ug/L			10/23/14 00:58	20
Bromodichloromethane	<3.4		20	3.4	ug/L			10/23/14 00:58	20
Bromoform	<5.6		20	5.6	ug/L			10/23/14 00:58	20
Bromomethane	<6.2	*	20	6.2	ug/L			10/23/14 00:58	20
Carbon tetrachloride	<5.2		20	5.2	ug/L			10/23/14 00:58	20
Chlorobenzene	<2.8		20	2.8	ug/L			10/23/14 00:58	20
Chloroethane	<6.8	*	20	6.8	ug/L			10/23/14 00:58	20
Chloroform	<4.0		20	4.0	ug/L			10/23/14 00:58	20
Chloromethane	<3.6		20	3.6	ug/L			10/23/14 00:58	20
cis-1,2-Dichloroethene	2200		20	2.4	ug/L			10/23/14 00:58	20
cis-1,3-Dichloropropene	<3.6		20	3.6	ug/L			10/23/14 00:58	20
Dibromochloromethane	<6.4		20	6.4	ug/L			10/23/14 00:58	20
Dibromomethane	<6.6		20	6.6	ug/L			10/23/14 00:58	20
Dichlorodifluoromethane	<4.0		20	4.0	ug/L			10/23/14 00:58	20
Ethylbenzene	<2.6		10	2.6	ug/L			10/23/14 00:58	20
Hexachlorobutadiene	<5.2		20	5.2	ug/L			10/23/14 00:58	20
Isopropyl ether	<3.0		20	3.0	ug/L			10/23/14 00:58	20
Isopropylbenzene	<2.8		20	2.8	ug/L			10/23/14 00:58	20
Methyl tert-butyl ether	<4.8		20	4.8	ug/L			10/23/14 00:58	20
Methylene Chloride	<14		100	14	ug/L			10/23/14 00:58	20
Naphthalene	<3.2		20	3.2	ug/L			10/23/14 00:58	20
n-Butylbenzene	<2.6		20	2.6	ug/L			10/23/14 00:58	20
N-Propylbenzene	<2.6		20	2.6	ug/L			10/23/14 00:58	20
p-Isopropyltoluene	<3.4		20	3.4	ug/L			10/23/14 00:58	20
sec-Butylbenzene	<3.0		20	3.0	ug/L			10/23/14 00:58	20
Styrene	<2.0		20	2.0	ug/L			10/23/14 00:58	20
tert-Butylbenzene	<2.8		20	2.8	ug/L			10/23/14 00:58	20
Toluene	<2.2		10	2.2	ug/L			10/23/14 00:58	20
trans-1,2-Dichloroethene	42		20	5.0	ug/L			10/23/14 00:58	20
trans-1,3-Dichloropropene	<4.2		20	4.2	ug/L			10/23/14 00:58	20
Trichloroethene	1100		10	3.8	ug/L			10/23/14 00:58	20
Trichlorofluoromethane	<3.8	*	20	3.8	ug/L			10/23/14 00:58	20
Vinyl chloride	95		10	2.0	ug/L			10/23/14 00:58	20
Xylenes, Total	<1.4		20	1.4	ug/L			10/23/14 00:58	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 125		10/23/14 00:58	20
4-Bromofluorobenzene (Surr)	78		75 - 120		10/23/14 00:58	20
Dibromofluoromethane	99		75 - 120		10/23/14 00:58	20
Toluene-d8 (Surr)	95		75 - 120		10/23/14 00:58	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	11000		200	34	ug/L			10/23/14 01:23	200

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 125		10/23/14 01:23	200
4-Bromofluorobenzene (Surr)	78		75 - 120		10/23/14 01:23	200
Dibromofluoromethane	100		75 - 120		10/23/14 01:23	200
Toluene-d8 (Surr)	95		75 - 120		10/23/14 01:23	200

TestAmerica Chicago

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
F1	MS and/or MSD Recovery exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

QC Association Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

GC/MS VOA

Analysis Batch: 260250

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86169-1	Trip Blank	Total/NA	Water	8260B	
500-86169-2	MP-13 (44-48)	Total/NA	Water	8260B	
500-86169-2 - DL	MP-13 (44-48)	Total/NA	Water	8260B	
LCS 500-260250/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-260250/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 260373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86169-3	MP-13 (81-85)	Total/NA	Water	8260B	
500-86169-3 - DL	MP-13 (81-85)	Total/NA	Water	8260B	
500-86169-4	MP-13 (102-106)	Total/NA	Water	8260B	
500-86169-4 - DL	MP-13 (102-106)	Total/NA	Water	8260B	
500-86169-5	MP-13 (121-125)	Total/NA	Water	8260B	
500-86169-5 - DL	MP-13 (121-125)	Total/NA	Water	8260B	
500-86169-6	MP-13 (67-71)	Total/NA	Water	8260B	
500-86169-6 - DL	MP-13 (67-71)	Total/NA	Water	8260B	
500-86169-7	MP-13 (135-139)	Total/NA	Water	8260B	
500-86169-7 - DL	MP-13 (135-139)	Total/NA	Water	8260B	
500-86169-8 - DL	MP-13 (163-167)	Total/NA	Water	8260B	
500-86169-9	MW-24	Total/NA	Water	8260B	
500-86169-10	MW-9D	Total/NA	Water	8260B	
500-86169-11	MW-9D2	Total/NA	Water	8260B	
500-86169-12	MW-26S	Total/NA	Water	8260B	
500-86169-12 MS	MW-26S	Total/NA	Water	8260B	
500-86169-12 MSD	MW-26S	Total/NA	Water	8260B	
500-86169-13	MW-3D	Total/NA	Water	8260B	
500-86169-13 - DL	MW-3D	Total/NA	Water	8260B	
500-86169-14	MW-19D2	Total/NA	Water	8260B	
500-86169-15	MW-19D2 Quenched	Total/NA	Water	8260B	
500-86169-15 - DL	MW-19D2 Quenched	Total/NA	Water	8260B	
LCS 500-260373/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-260373/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 260475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86169-16	Dup-4	Total/NA	Water	8260B	
500-86169-16 - DL	Dup-4	Total/NA	Water	8260B	
LCS 500-260475/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-260475/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 260586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86169-8	MP-13 (163-167)	Total/NA	Water	8260B	
LCS 500-260586/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-260586/6	Method Blank	Total/NA	Water	8260B	

Surrogate Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-125)	BFB (75-120)	DBFM (75-120)	TOL (75-120)
500-86169-1	Trip Blank	87	78	102	98
500-86169-2	MP-13 (44-48)	89	77	99	96
500-86169-2 - DL	MP-13 (44-48)	88	75	98	97
500-86169-3	MP-13 (81-85)	88	80	98	95
500-86169-3 - DL	MP-13 (81-85)	85	78	98	96
500-86169-4 - DL	MP-13 (102-106)	85	78	100	97
500-86169-4	MP-13 (102-106)	84	80	100	96
500-86169-5	MP-13 (121-125)	84	78	97	96
500-86169-5 - DL	MP-13 (121-125)	85	77	97	97
500-86169-6	MP-13 (67-71)	85	77	98	95
500-86169-6 - DL	MP-13 (67-71)	86	77	97	98
500-86169-7	MP-13 (135-139)	83	77	96	96
500-86169-7 - DL	MP-13 (135-139)	85	79	99	98
500-86169-8 - DL	MP-13 (163-167)	86	78	99	97
500-86169-8	MP-13 (163-167)	88	75	98	94
500-86169-9	MW-24	86	78	98	97
500-86169-10	MW-9D	84	77	98	98
500-86169-11	MW-9D2	88	77	98	97
500-86169-12	MW-26S	87	77	101	98
500-86169-12 MS	MW-26S	85	84	98	94
500-86169-12 MSD	MW-26S	86	86	99	95
500-86169-13	MW-3D	85	77	98	95
500-86169-13 - DL	MW-3D	86	76	100	97
500-86169-14	MW-19D2	87	78	100	83
500-86169-15	MW-19D2 Quenched	89	79	100	96
500-86169-15 - DL	MW-19D2 Quenched	84	77	99	96
500-86169-16	Dup-4	87	78	99	95
500-86169-16 - DL	Dup-4	87	78	100	95
LCS 500-260250/4	Lab Control Sample	84	84	97	97
LCS 500-260373/4	Lab Control Sample	84	86	97	96
LCS 500-260475/4	Lab Control Sample	83	84	97	97
LCS 500-260586/4	Lab Control Sample	82	86	97	96
MB 500-260250/6	Method Blank	86	78	100	98
MB 500-260373/6	Method Blank	87	80	97	98
MB 500-260475/6	Method Blank	88	78	101	98
MB 500-260586/6	Method Blank	85	79	99	96

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

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

Lab Sample ID: MB 500-260250/6

Matrix: Water

Analysis Batch: 260250

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/21/14 23:29	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/21/14 23:29	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/21/14 23:29	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/21/14 23:29	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/21/14 23:29	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/21/14 23:29	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/21/14 23:29	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/21/14 23:29	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/21/14 23:29	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/21/14 23:29	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/21/14 23:29	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/21/14 23:29	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/21/14 23:29	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/21/14 23:29	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/21/14 23:29	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/21/14 23:29	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/21/14 23:29	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/21/14 23:29	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/21/14 23:29	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/21/14 23:29	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/21/14 23:29	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/21/14 23:29	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/21/14 23:29	1
Benzene	<0.074		0.50	0.074	ug/L			10/21/14 23:29	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/21/14 23:29	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/21/14 23:29	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/21/14 23:29	1
Bromoform	<0.28		1.0	0.28	ug/L			10/21/14 23:29	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/21/14 23:29	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/21/14 23:29	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/21/14 23:29	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/21/14 23:29	1
Chloroform	<0.20		1.0	0.20	ug/L			10/21/14 23:29	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/21/14 23:29	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/21/14 23:29	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/21/14 23:29	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/21/14 23:29	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/21/14 23:29	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/21/14 23:29	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/21/14 23:29	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/21/14 23:29	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/21/14 23:29	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/21/14 23:29	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/21/14 23:29	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/21/14 23:29	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/21/14 23:29	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/21/14 23:29	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/21/14 23:29	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

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

Lab Sample ID: MB 500-260250/6

Matrix: Water

Analysis Batch: 260250

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/21/14 23:29	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/21/14 23:29	1
Styrene	<0.10		1.0	0.10	ug/L			10/21/14 23:29	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/21/14 23:29	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/21/14 23:29	1
Toluene	<0.11		0.50	0.11	ug/L			10/21/14 23:29	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/21/14 23:29	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/21/14 23:29	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/21/14 23:29	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/21/14 23:29	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/21/14 23:29	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/21/14 23:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		75 - 125		10/21/14 23:29	1
4-Bromofluorobenzene (Surr)	78		75 - 120		10/21/14 23:29	1
Dibromofluoromethane	100		75 - 120		10/21/14 23:29	1
Toluene-d8 (Surr)	98		75 - 120		10/21/14 23:29	1

Lab Sample ID: LCS 500-260250/4

Matrix: Water

Analysis Batch: 260250

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	54.0		ug/L		108	75 - 122
1,1,1-Trichloroethane	50.0	51.2		ug/L		102	72 - 130
1,1,2,2-Tetrachloroethane	50.0	49.2		ug/L		98	72 - 130
1,1,2-Trichloroethane	50.0	51.0		ug/L		102	75 - 120
1,1-Dichloroethane	50.0	44.9		ug/L		90	75 - 120
1,1-Dichloroethene	50.0	49.5		ug/L		99	69 - 120
1,1-Dichloropropene	50.0	50.5		ug/L		101	75 - 130
1,2,3-Trichlorobenzene	50.0	52.1		ug/L		104	69 - 131
1,2,3-Trichloropropane	50.0	40.8		ug/L		82	65 - 132
1,2,4-Trichlorobenzene	50.0	48.9		ug/L		98	73 - 130
1,2,4-Trimethylbenzene	50.0	53.6		ug/L		107	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	43.5		ug/L		87	62 - 130
1,2-Dibromoethane	50.0	50.9		ug/L		102	78 - 122
1,2-Dichlorobenzene	50.0	55.9		ug/L		112	75 - 120
1,2-Dichloroethane	50.0	43.7		ug/L		87	69 - 130
1,2-Dichloropropane	50.0	45.2		ug/L		90	75 - 120
1,3,5-Trimethylbenzene	50.0	53.7		ug/L		107	75 - 121
1,3-Dichlorobenzene	50.0	56.1		ug/L		112	75 - 120
1,3-Dichloropropane	50.0	48.8		ug/L		98	77 - 124
1,4-Dichlorobenzene	50.0	54.9		ug/L		110	75 - 120
2,2-Dichloropropane	50.0	42.9		ug/L		86	65 - 132
2-Chlorotoluene	50.0	50.9		ug/L		102	75 - 120
4-Chlorotoluene	50.0	50.8		ug/L		102	75 - 120
Benzene	50.0	50.6		ug/L		101	75 - 120

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

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

Lab Sample ID: LCS 500-260250/4

Matrix: Water

Analysis Batch: 260250

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	56.1		ug/L		112	75 - 120
Bromochloromethane	50.0	52.5		ug/L		105	76 - 120
Bromodichloromethane	50.0	48.8		ug/L		98	77 - 121
Bromoform	50.0	55.0		ug/L		110	68 - 126
Bromomethane	50.0	106	*	ug/L		211	45 - 169
Carbon tetrachloride	50.0	56.7		ug/L		113	70 - 130
Chlorobenzene	50.0	52.6		ug/L		105	75 - 120
Chloroethane	50.0	108	*	ug/L		215	58 - 147
Chloroform	50.0	48.7		ug/L		97	76 - 120
Chloromethane	50.0	43.6		ug/L		87	63 - 133
cis-1,2-Dichloroethene	50.0	52.5		ug/L		105	75 - 120
cis-1,3-Dichloropropene	50.0	44.9		ug/L		90	78 - 130
Dibromochloromethane	50.0	53.7		ug/L		107	71 - 126
Dibromomethane	50.0	49.1		ug/L		98	75 - 120
Dichlorodifluoromethane	50.0	55.0		ug/L		110	41 - 146
Ethylbenzene	50.0	56.4		ug/L		113	75 - 120
Hexachlorobutadiene	50.0	54.8		ug/L		110	71 - 131
Isopropylbenzene	50.0	54.5		ug/L		109	75 - 121
Methyl tert-butyl ether	50.0	42.0		ug/L		84	75 - 130
Methylene Chloride	50.0	49.9		ug/L		100	73 - 130
Naphthalene	50.0	46.1		ug/L		92	69 - 135
n-Butylbenzene	50.0	51.0		ug/L		102	75 - 121
N-Propylbenzene	50.0	52.8		ug/L		106	75 - 120
p-Isopropyltoluene	50.0	55.9		ug/L		112	75 - 121
sec-Butylbenzene	50.0	55.0		ug/L		110	75 - 120
Styrene	50.0	53.3		ug/L		107	75 - 120
tert-Butylbenzene	50.0	56.8		ug/L		114	75 - 123
Tetrachloroethene	50.0	58.3		ug/L		117	75 - 120
Toluene	50.0	51.2		ug/L		102	75 - 120
trans-1,2-Dichloroethene	50.0	51.5		ug/L		103	77 - 120
trans-1,3-Dichloropropene	50.0	44.9		ug/L		90	74 - 130
Trichloroethene	50.0	55.2		ug/L		110	75 - 120
Trichlorofluoromethane	50.0	66.2	*	ug/L		132	71 - 130
Vinyl chloride	50.0	48.5		ug/L		97	72 - 123
Xylenes, Total	100	103		ug/L		103	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	84		75 - 125
4-Bromofluorobenzene (Surr)	84		75 - 120
Dibromofluoromethane	97		75 - 120
Toluene-d8 (Surr)	97		75 - 120

Lab Sample ID: MB 500-260373/6

Matrix: Water

Analysis Batch: 260373

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/22/14 11:57	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

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

Lab Sample ID: MB 500-260373/6

Matrix: Water

Analysis Batch: 260373

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/22/14 11:57	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/22/14 11:57	1
1,1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/22/14 11:57	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/22/14 11:57	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/22/14 11:57	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/22/14 11:57	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/22/14 11:57	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/22/14 11:57	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/22/14 11:57	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 11:57	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/22/14 11:57	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/22/14 11:57	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/22/14 11:57	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/22/14 11:57	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/22/14 11:57	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/22/14 11:57	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/22/14 11:57	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/22/14 11:57	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/22/14 11:57	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/22/14 11:57	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/22/14 11:57	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/22/14 11:57	1
Benzene	<0.074		0.50	0.074	ug/L			10/22/14 11:57	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/22/14 11:57	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/22/14 11:57	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/22/14 11:57	1
Bromoform	<0.28		1.0	0.28	ug/L			10/22/14 11:57	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/22/14 11:57	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/22/14 11:57	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/22/14 11:57	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/22/14 11:57	1
Chloroform	<0.20		1.0	0.20	ug/L			10/22/14 11:57	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/22/14 11:57	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/22/14 11:57	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/22/14 11:57	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/14 11:57	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/22/14 11:57	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/22/14 11:57	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/22/14 11:57	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/22/14 11:57	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/22/14 11:57	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 11:57	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/22/14 11:57	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/22/14 11:57	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/22/14 11:57	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/22/14 11:57	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/22/14 11:57	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/22/14 11:57	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

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

Lab Sample ID: MB 500-260373/6

Matrix: Water

Analysis Batch: 260373

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/22/14 11:57	1
Styrene	<0.10		1.0	0.10	ug/L			10/22/14 11:57	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 11:57	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/22/14 11:57	1
Toluene	<0.11		0.50	0.11	ug/L			10/22/14 11:57	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/22/14 11:57	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/22/14 11:57	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/22/14 11:57	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/22/14 11:57	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/22/14 11:57	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/22/14 11:57	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	87		75 - 125		10/22/14 11:57	1
4-Bromofluorobenzene (Surr)	80		75 - 120		10/22/14 11:57	1
Dibromofluoromethane	97		75 - 120		10/22/14 11:57	1
Toluene-d8 (Surr)	98		75 - 120		10/22/14 11:57	1

Lab Sample ID: LCS 500-260373/4

Matrix: Water

Analysis Batch: 260373

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	48.5		ug/L		97	72 - 130
1,1,1,2-Tetrachloroethane	50.0	46.9		ug/L		94	72 - 130
1,1,2-Trichloroethane	50.0	49.5		ug/L		99	75 - 120
1,1-Dichloroethane	50.0	43.1		ug/L		86	75 - 120
1,1-Dichloroethene	50.0	47.3		ug/L		95	69 - 120
1,1-Dichloropropene	50.0	48.6		ug/L		97	75 - 130
1,2,3-Trichlorobenzene	50.0	50.7		ug/L		101	69 - 131
1,2,3-Trichloropropane	50.0	39.0		ug/L		78	65 - 132
1,2,4-Trichlorobenzene	50.0	49.6		ug/L		99	73 - 130
1,2,4-Trimethylbenzene	50.0	50.6		ug/L		101	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	42.2		ug/L		84	62 - 130
1,2-Dibromoethane	50.0	49.7		ug/L		99	78 - 122
1,2-Dichlorobenzene	50.0	53.9		ug/L		108	75 - 120
1,2-Dichloroethane	50.0	42.5		ug/L		85	69 - 130
1,2-Dichloropropane	50.0	44.8		ug/L		90	75 - 120
1,3,5-Trimethylbenzene	50.0	50.1		ug/L		100	75 - 121
1,3-Dichlorobenzene	50.0	53.9		ug/L		108	75 - 120
1,3-Dichloropropane	50.0	47.7		ug/L		95	77 - 124
1,4-Dichlorobenzene	50.0	53.6		ug/L		107	75 - 120
2,2-Dichloropropane	50.0	41.6		ug/L		83	65 - 132
2-Chlorotoluene	50.0	47.4		ug/L		95	75 - 120
4-Chlorotoluene	50.0	48.0		ug/L		96	75 - 120
Benzene	50.0	48.4		ug/L		97	75 - 120
Bromobenzene	50.0	52.6		ug/L		105	75 - 120

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

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

Lab Sample ID: LCS 500-260373/4

Matrix: Water

Analysis Batch: 260373

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	51.8		ug/L		104	76 - 120
Bromodichloromethane	50.0	47.5		ug/L		95	77 - 121
Bromoform	50.0	54.3		ug/L		109	68 - 126
Bromomethane	50.0	102	*	ug/L		204	45 - 169
Carbon tetrachloride	50.0	54.6		ug/L		109	70 - 130
Chlorobenzene	50.0	50.5		ug/L		101	75 - 120
Chloroethane	50.0	90.2	*	ug/L		180	58 - 147
Chloroform	50.0	46.8		ug/L		94	76 - 120
Chloromethane	50.0	42.9		ug/L		86	63 - 133
cis-1,2-Dichloroethene	50.0	50.5		ug/L		101	75 - 120
cis-1,3-Dichloropropene	50.0	46.3		ug/L		93	78 - 130
Dibromochloromethane	50.0	51.9		ug/L		104	71 - 126
Dibromomethane	50.0	49.4		ug/L		99	75 - 120
Dichlorodifluoromethane	50.0	54.8		ug/L		110	41 - 146
Ethylbenzene	50.0	54.3		ug/L		109	75 - 120
Hexachlorobutadiene	50.0	52.7		ug/L		105	71 - 131
Isopropylbenzene	50.0	50.5		ug/L		101	75 - 121
Methyl tert-butyl ether	50.0	41.8		ug/L		84	75 - 130
Methylene Chloride	50.0	47.6		ug/L		95	73 - 130
Naphthalene	50.0	44.5		ug/L		89	69 - 135
n-Butylbenzene	50.0	49.3		ug/L		99	75 - 121
N-Propylbenzene	50.0	49.2		ug/L		98	75 - 120
p-Isopropyltoluene	50.0	52.8		ug/L		106	75 - 121
sec-Butylbenzene	50.0	51.2		ug/L		102	75 - 120
Styrene	50.0	52.5		ug/L		105	75 - 120
tert-Butylbenzene	50.0	52.1		ug/L		104	75 - 123
Tetrachloroethene	50.0	56.0		ug/L		112	75 - 120
Toluene	50.0	49.5		ug/L		99	75 - 120
trans-1,2-Dichloroethene	50.0	49.4		ug/L		99	77 - 120
trans-1,3-Dichloropropene	50.0	44.2		ug/L		88	74 - 130
Trichloroethene	50.0	54.0		ug/L		108	75 - 120
Trichlorofluoromethane	50.0	62.3		ug/L		125	71 - 130
Vinyl chloride	50.0	47.0		ug/L		94	72 - 123
Xylenes, Total	100	98.2		ug/L		98	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	84		75 - 125
4-Bromofluorobenzene (Surr)	86		75 - 120
Dibromofluoromethane	97		75 - 120
Toluene-d8 (Surr)	96		75 - 120

Lab Sample ID: 500-86169-12 MS

Matrix: Water

Analysis Batch: 260373

Client Sample ID: MW-26S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<0.25		50.0	56.2		ug/L		112	75 - 122
1,1,1-Trichloroethane	<0.20		50.0	50.9		ug/L		102	72 - 130

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

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

Lab Sample ID: 500-86169-12 MS

Matrix: Water

Analysis Batch: 260373

Client Sample ID: MW-26S

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier			Limits	
1,1,2,2-Tetrachloroethane	<0.23		50.0	50.6		ug/L		101	72 - 130
1,1,2-Trichloroethane	<0.28		50.0	54.5		ug/L		109	75 - 120
1,1-Dichloroethane	<0.19		50.0	45.5		ug/L		91	75 - 120
1,1-Dichloroethene	<0.31		50.0	50.2		ug/L		100	69 - 120
1,1-Dichloropropene	<0.34		50.0	50.8		ug/L		102	75 - 130
1,2,3-Trichlorobenzene	<0.24		50.0	51.9		ug/L		104	69 - 131
1,2,3-Trichloropropane	<0.45		50.0	40.5		ug/L		81	65 - 132
1,2,4-Trichlorobenzene	<0.31		50.0	50.5		ug/L		101	73 - 130
1,2,4-Trimethylbenzene	<0.14		50.0	54.2		ug/L		108	75 - 121
1,2-Dibromo-3-Chloropropane	<0.87		50.0	43.1		ug/L		86	62 - 130
1,2-Dibromoethane	<0.36		50.0	52.4		ug/L		105	78 - 122
1,2-Dichlorobenzene	<0.27		50.0	57.3		ug/L		115	75 - 120
1,2-Dichloroethane	<0.28		50.0	44.8		ug/L		90	69 - 130
1,2-Dichloropropane	<0.20		50.0	46.5		ug/L		93	75 - 120
1,3,5-Trimethylbenzene	<0.18		50.0	54.1		ug/L		108	75 - 121
1,3-Dichlorobenzene	<0.15		50.0	57.7		ug/L		115	75 - 120
1,3-Dichloropropane	<0.13		50.0	51.7		ug/L		103	77 - 124
1,4-Dichlorobenzene	<0.15		50.0	56.6		ug/L		113	75 - 120
2,2-Dichloropropane	<0.32		50.0	41.9		ug/L		84	65 - 132
2-Chlorotoluene	<0.21		50.0	50.4		ug/L		101	75 - 120
4-Chlorotoluene	<0.20		50.0	51.3		ug/L		103	75 - 120
Benzene	<0.074		50.0	51.4		ug/L		103	75 - 120
Bromobenzene	<0.25		50.0	56.0		ug/L		112	75 - 120
Bromochloromethane	<0.40		50.0	55.0		ug/L		110	76 - 120
Bromodichloromethane	<0.17		50.0	50.2		ug/L		100	77 - 121
Bromoform	<0.28		50.0	58.2		ug/L		116	68 - 126
Bromomethane	<0.31	*	50.0	90.0	F1	ug/L		180	45 - 169
Carbon tetrachloride	<0.26		50.0	56.8		ug/L		114	70 - 130
Chlorobenzene	<0.14		50.0	54.4		ug/L		109	75 - 120
Chloroethane	<0.34	*	50.0	104	F1	ug/L		208	58 - 147
Chloroform	<0.20		50.0	49.9		ug/L		100	76 - 120
Chloromethane	<0.18		50.0	39.0		ug/L		78	63 - 133
cis-1,2-Dichloroethene	<0.12		50.0	52.7		ug/L		105	75 - 120
cis-1,3-Dichloropropene	<0.18		50.0	45.8		ug/L		92	78 - 130
Dibromochloromethane	<0.32		50.0	55.0		ug/L		110	71 - 126
Dibromomethane	<0.33		50.0	51.7		ug/L		103	75 - 120
Dichlorodifluoromethane	<0.20		50.0	51.9		ug/L		104	41 - 146
Ethylbenzene	<0.13		50.0	57.9		ug/L		116	75 - 120
Hexachlorobutadiene	<0.26		50.0	54.7		ug/L		109	71 - 131
Isopropylbenzene	<0.14		50.0	54.0		ug/L		108	75 - 121
Methyl tert-butyl ether	<0.24		50.0	43.0		ug/L		86	75 - 130
Methylene Chloride	<0.68		50.0	51.6		ug/L		103	73 - 130
Naphthalene	<0.16		50.0	46.2		ug/L		92	69 - 135
n-Butylbenzene	<0.13		50.0	51.9		ug/L		104	75 - 121
N-Propylbenzene	<0.13		50.0	52.8		ug/L		106	75 - 120
p-Isopropyltoluene	<0.17		50.0	56.1		ug/L		112	75 - 121
sec-Butylbenzene	<0.15		50.0	55.1		ug/L		110	75 - 120
Styrene	<0.10		50.0	56.3		ug/L		113	75 - 120

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

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

Lab Sample ID: 500-86169-12 MS

Matrix: Water

Analysis Batch: 260373

Client Sample ID: MW-26S

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
tert-Butylbenzene	<0.14		50.0	56.5		ug/L		113	75 - 123
Tetrachloroethene	<0.17		50.0	60.0		ug/L		120	75 - 120
Toluene	<0.11		50.0	51.5		ug/L		103	75 - 120
trans-1,2-Dichloroethene	<0.25		50.0	51.6		ug/L		103	77 - 120
trans-1,3-Dichloropropene	<0.21		50.0	45.7		ug/L		91	74 - 130
Trichloroethene	<0.19		50.0	55.9		ug/L		112	75 - 120
Trichlorofluoromethane	<0.19		50.0	60.1		ug/L		120	71 - 130
Vinyl chloride	<0.10		50.0	43.8		ug/L		88	72 - 123
Xylenes, Total	<0.068		100	106		ug/L		106	75 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		75 - 125
4-Bromofluorobenzene (Surr)	84		75 - 120
Dibromofluoromethane	98		75 - 120
Toluene-d8 (Surr)	94		75 - 120

Lab Sample ID: 500-86169-12 MSD

Matrix: Water

Analysis Batch: 260373

Client Sample ID: MW-26S

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	<0.25		50.0	55.2		ug/L		110	75 - 122	2	20
1,1,1-Trichloroethane	<0.20		50.0	49.8		ug/L		100	72 - 130	2	20
1,1,1,2,2-Tetrachloroethane	<0.23		50.0	50.7		ug/L		101	72 - 130	0	20
1,1,2-Trichloroethane	<0.28		50.0	52.3		ug/L		105	75 - 120	4	20
1,1-Dichloroethane	<0.19		50.0	44.2		ug/L		88	75 - 120	3	20
1,1-Dichloroethene	<0.31		50.0	48.8		ug/L		98	69 - 120	3	20
1,1-Dichloropropene	<0.34		50.0	48.9		ug/L		98	75 - 130	4	20
1,2,3-Trichlorobenzene	<0.24		50.0	53.2		ug/L		106	69 - 131	2	20
1,2,3-Trichloropropane	<0.45		50.0	41.3		ug/L		83	65 - 132	2	20
1,2,4-Trichlorobenzene	<0.31		50.0	50.4		ug/L		101	73 - 130	0	20
1,2,4-Trimethylbenzene	<0.14		50.0	52.6		ug/L		105	75 - 121	3	20
1,2-Dibromo-3-Chloropropane	<0.87		50.0	43.6		ug/L		87	62 - 130	1	20
1,2-Dibromoethane	<0.36		50.0	52.2		ug/L		104	78 - 122	0	20
1,2-Dichlorobenzene	<0.27		50.0	56.2		ug/L		112	75 - 120	2	20
1,2-Dichloroethane	<0.28		50.0	44.8		ug/L		90	69 - 130	0	20
1,2-Dichloropropane	<0.20		50.0	45.4		ug/L		91	75 - 120	2	20
1,3,5-Trimethylbenzene	<0.18		50.0	52.2		ug/L		104	75 - 121	4	20
1,3-Dichlorobenzene	<0.15		50.0	56.0		ug/L		112	75 - 120	3	20
1,3-Dichloropropane	<0.13		50.0	50.1		ug/L		100	77 - 124	3	20
1,4-Dichlorobenzene	<0.15		50.0	55.1		ug/L		110	75 - 120	3	20
2,2-Dichloropropane	<0.32		50.0	41.2		ug/L		82	65 - 132	2	20
2-Chlorotoluene	<0.21		50.0	48.8		ug/L		98	75 - 120	3	20
4-Chlorotoluene	<0.20		50.0	49.4		ug/L		99	75 - 120	4	20
Benzene	<0.074		50.0	49.8		ug/L		100	75 - 120	3	20
Bromobenzene	<0.25		50.0	55.4		ug/L		111	75 - 120	1	20
Bromochloromethane	<0.40		50.0	53.3		ug/L		107	76 - 120	3	20
Bromodichloromethane	<0.17		50.0	48.9		ug/L		98	77 - 121	3	20

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

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

Lab Sample ID: 500-86169-12 MSD

Matrix: Water

Analysis Batch: 260373

Client Sample ID: MW-26S

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Bromoform	<0.28		50.0	55.9		ug/L		112	68 - 126	4	20
Bromomethane	<0.31	*	50.0	98.5	F1	ug/L		197	45 - 169	9	20
Carbon tetrachloride	<0.26		50.0	55.4		ug/L		111	70 - 130	3	20
Chlorobenzene	<0.14		50.0	53.1		ug/L		106	75 - 120	2	20
Chloroethane	<0.34	*	50.0	93.9	F1	ug/L		188	58 - 147	10	20
Chloroform	<0.20		50.0	48.4		ug/L		97	76 - 120	3	20
Chloromethane	<0.18		50.0	43.2		ug/L		86	63 - 133	10	20
cis-1,2-Dichloroethene	<0.12		50.0	51.3		ug/L		103	75 - 120	3	20
cis-1,3-Dichloropropene	<0.18		50.0	45.2		ug/L		90	78 - 130	1	20
Dibromochloromethane	<0.32		50.0	55.1		ug/L		110	71 - 126	0	20
Dibromomethane	<0.33		50.0	50.2		ug/L		100	75 - 120	3	20
Dichlorodifluoromethane	<0.20		50.0	57.3		ug/L		115	41 - 146	10	20
Ethylbenzene	<0.13		50.0	56.1		ug/L		112	75 - 120	3	20
Hexachlorobutadiene	<0.26		50.0	53.6		ug/L		107	71 - 131	2	20
Isopropylbenzene	<0.14		50.0	52.1		ug/L		104	75 - 121	4	20
Methyl tert-butyl ether	<0.24		50.0	42.4		ug/L		85	75 - 130	1	20
Methylene Chloride	<0.68		50.0	50.4		ug/L		101	73 - 130	2	20
Naphthalene	<0.16		50.0	47.0		ug/L		94	69 - 135	2	20
n-Butylbenzene	<0.13		50.0	49.7		ug/L		99	75 - 121	4	20
N-Propylbenzene	<0.13		50.0	50.6		ug/L		101	75 - 120	4	20
p-Isopropyltoluene	<0.17		50.0	54.0		ug/L		108	75 - 121	4	20
sec-Butylbenzene	<0.15		50.0	53.5		ug/L		107	75 - 120	3	20
Styrene	<0.10		50.0	54.6		ug/L		109	75 - 120	3	20
tert-Butylbenzene	<0.14		50.0	54.6		ug/L		109	75 - 123	3	20
Tetrachloroethene	<0.17		50.0	57.9		ug/L		116	75 - 120	4	20
Toluene	<0.11		50.0	50.0		ug/L		100	75 - 120	3	20
trans-1,2-Dichloroethene	<0.25		50.0	50.3		ug/L		101	77 - 120	3	20
trans-1,3-Dichloropropene	<0.21		50.0	44.6		ug/L		89	74 - 130	2	20
Trichloroethene	<0.19		50.0	54.7		ug/L		109	75 - 120	2	20
Trichlorofluoromethane	<0.19		50.0	65.1		ug/L		130	71 - 130	8	20
Vinyl chloride	<0.10		50.0	48.5		ug/L		97	72 - 123	10	20
Xylenes, Total	<0.068		100	103		ug/L		103	75 - 120	3	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	86		75 - 125
4-Bromofluorobenzene (Surr)	86		75 - 120
Dibromofluoromethane	99		75 - 120
Toluene-d8 (Surr)	95		75 - 120

Lab Sample ID: MB 500-260475/6

Matrix: Water

Analysis Batch: 260475

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/23/14 00:33	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/23/14 00:33	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/23/14 00:33	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/23/14 00:33	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

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

Lab Sample ID: MB 500-260475/6

Matrix: Water

Analysis Batch: 260475

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/23/14 00:33	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/23/14 00:33	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/23/14 00:33	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/23/14 00:33	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/23/14 00:33	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/23/14 00:33	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/23/14 00:33	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/23/14 00:33	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/23/14 00:33	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/23/14 00:33	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/23/14 00:33	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/23/14 00:33	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/23/14 00:33	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/23/14 00:33	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/23/14 00:33	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/23/14 00:33	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/23/14 00:33	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/23/14 00:33	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/23/14 00:33	1
Benzene	<0.074		0.50	0.074	ug/L			10/23/14 00:33	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/23/14 00:33	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/23/14 00:33	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/23/14 00:33	1
Bromoform	<0.28		1.0	0.28	ug/L			10/23/14 00:33	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/23/14 00:33	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/23/14 00:33	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/23/14 00:33	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/23/14 00:33	1
Chloroform	<0.20		1.0	0.20	ug/L			10/23/14 00:33	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/23/14 00:33	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/23/14 00:33	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/23/14 00:33	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/23/14 00:33	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/23/14 00:33	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/23/14 00:33	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/23/14 00:33	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/23/14 00:33	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/23/14 00:33	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/23/14 00:33	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/23/14 00:33	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/23/14 00:33	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/23/14 00:33	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/23/14 00:33	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/23/14 00:33	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/23/14 00:33	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/23/14 00:33	1
Styrene	<0.10		1.0	0.10	ug/L			10/23/14 00:33	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/23/14 00:33	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

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

Lab Sample ID: MB 500-260475/6

Matrix: Water

Analysis Batch: 260475

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/23/14 00:33	1
Toluene	<0.11		0.50	0.11	ug/L			10/23/14 00:33	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/23/14 00:33	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/23/14 00:33	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/23/14 00:33	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/23/14 00:33	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/23/14 00:33	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/23/14 00:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 125		10/23/14 00:33	1
4-Bromofluorobenzene (Surr)	78		75 - 120		10/23/14 00:33	1
Dibromofluoromethane	101		75 - 120		10/23/14 00:33	1
Toluene-d8 (Surr)	98		75 - 120		10/23/14 00:33	1

Lab Sample ID: LCS 500-260475/4

Matrix: Water

Analysis Batch: 260475

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	54.5		ug/L		109	75 - 122
1,1,1-Trichloroethane	50.0	51.0		ug/L		102	72 - 130
1,1,1,2,2-Tetrachloroethane	50.0	49.2		ug/L		98	72 - 130
1,1,2-Trichloroethane	50.0	52.0		ug/L		104	75 - 120
1,1-Dichloroethane	50.0	44.5		ug/L		89	75 - 120
1,1-Dichloroethene	50.0	49.0		ug/L		98	69 - 120
1,1-Dichloropropene	50.0	50.4		ug/L		101	75 - 130
1,2,3-Trichlorobenzene	50.0	51.0		ug/L		102	69 - 131
1,2,3-Trichloropropane	50.0	39.5		ug/L		79	65 - 132
1,2,4-Trichlorobenzene	50.0	49.4		ug/L		99	73 - 130
1,2,4-Trimethylbenzene	50.0	54.6		ug/L		109	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	42.6		ug/L		85	62 - 130
1,2-Dibromoethane	50.0	51.1		ug/L		102	78 - 122
1,2-Dichlorobenzene	50.0	57.2		ug/L		114	75 - 120
1,2-Dichloroethane	50.0	43.7		ug/L		87	69 - 130
1,2-Dichloropropane	50.0	45.9		ug/L		92	75 - 120
1,3,5-Trimethylbenzene	50.0	54.5		ug/L		109	75 - 121
1,3-Dichlorobenzene	50.0	57.3		ug/L		115	75 - 120
1,3-Dichloropropane	50.0	49.4		ug/L		99	77 - 124
1,4-Dichlorobenzene	50.0	55.8		ug/L		112	75 - 120
2,2-Dichloropropane	50.0	42.7		ug/L		85	65 - 132
2-Chlorotoluene	50.0	51.0		ug/L		102	75 - 120
4-Chlorotoluene	50.0	51.1		ug/L		102	75 - 120
Benzene	50.0	50.3		ug/L		101	75 - 120
Bromobenzene	50.0	56.2		ug/L		112	75 - 120
Bromochloromethane	50.0	52.6		ug/L		105	76 - 120
Bromodichloromethane	50.0	49.2		ug/L		98	77 - 121
Bromoform	50.0	56.6		ug/L		113	68 - 126

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

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

Lab Sample ID: LCS 500-260475/4

Matrix: Water

Analysis Batch: 260475

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	50.0	111	*	ug/L		222	45 - 169
Carbon tetrachloride	50.0	57.2		ug/L		114	70 - 130
Chlorobenzene	50.0	53.4		ug/L		107	75 - 120
Chloroethane	50.0	104	*	ug/L		208	58 - 147
Chloroform	50.0	48.8		ug/L		98	76 - 120
Chloromethane	50.0	45.9		ug/L		92	63 - 133
cis-1,2-Dichloroethene	50.0	51.8		ug/L		104	75 - 120
cis-1,3-Dichloropropene	50.0	45.4		ug/L		91	78 - 130
Dibromochloromethane	50.0	53.2		ug/L		106	71 - 126
Dibromomethane	50.0	49.2		ug/L		98	75 - 120
Dichlorodifluoromethane	50.0	58.9		ug/L		118	41 - 146
Ethylbenzene	50.0	57.2		ug/L		114	75 - 120
Hexachlorobutadiene	50.0	56.4		ug/L		113	71 - 131
Isopropylbenzene	50.0	54.9		ug/L		110	75 - 121
Methyl tert-butyl ether	50.0	41.0		ug/L		82	75 - 130
Methylene Chloride	50.0	49.7		ug/L		99	73 - 130
Naphthalene	50.0	45.0		ug/L		90	69 - 135
n-Butylbenzene	50.0	52.4		ug/L		105	75 - 121
N-Propylbenzene	50.0	53.8		ug/L		108	75 - 120
p-Isopropyltoluene	50.0	57.5		ug/L		115	75 - 121
sec-Butylbenzene	50.0	56.7		ug/L		113	75 - 120
Styrene	50.0	55.6		ug/L		111	75 - 120
tert-Butylbenzene	50.0	57.7		ug/L		115	75 - 123
Tetrachloroethene	50.0	59.7		ug/L		119	75 - 120
Toluene	50.0	51.3		ug/L		103	75 - 120
trans-1,2-Dichloroethene	50.0	51.0		ug/L		102	77 - 120
trans-1,3-Dichloropropene	50.0	45.0		ug/L		90	74 - 130
Trichloroethene	50.0	55.0		ug/L		110	75 - 120
Trichlorofluoromethane	50.0	67.0	*	ug/L		134	71 - 130
Vinyl chloride	50.0	50.1		ug/L		100	72 - 123
Xylenes, Total	100	105		ug/L		105	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	83		75 - 125
4-Bromofluorobenzene (Surr)	84		75 - 120
Dibromofluoromethane	97		75 - 120
Toluene-d8 (Surr)	97		75 - 120

Lab Sample ID: MB 500-260586/6

Matrix: Water

Analysis Batch: 260586

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/23/14 12:41	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/23/14 12:41	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/23/14 12:41	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/23/14 12:41	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/23/14 12:41	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

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

Lab Sample ID: MB 500-260586/6

Matrix: Water

Analysis Batch: 260586

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	<0.31		1.0	0.31	ug/L			10/23/14 12:41	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/23/14 12:41	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/23/14 12:41	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/23/14 12:41	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/23/14 12:41	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/23/14 12:41	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/23/14 12:41	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/23/14 12:41	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/23/14 12:41	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/23/14 12:41	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/23/14 12:41	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/23/14 12:41	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/23/14 12:41	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/23/14 12:41	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/23/14 12:41	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/23/14 12:41	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/23/14 12:41	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/23/14 12:41	1
Benzene	<0.074		0.50	0.074	ug/L			10/23/14 12:41	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/23/14 12:41	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/23/14 12:41	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/23/14 12:41	1
Bromoform	<0.28		1.0	0.28	ug/L			10/23/14 12:41	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/23/14 12:41	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/23/14 12:41	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/23/14 12:41	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/23/14 12:41	1
Chloroform	<0.20		1.0	0.20	ug/L			10/23/14 12:41	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/23/14 12:41	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/23/14 12:41	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/23/14 12:41	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/23/14 12:41	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/23/14 12:41	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/23/14 12:41	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/23/14 12:41	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/23/14 12:41	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/23/14 12:41	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/23/14 12:41	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/23/14 12:41	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/23/14 12:41	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/23/14 12:41	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/23/14 12:41	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/23/14 12:41	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/23/14 12:41	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/23/14 12:41	1
Styrene	<0.10		1.0	0.10	ug/L			10/23/14 12:41	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/23/14 12:41	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/23/14 12:41	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

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

Lab Sample ID: MB 500-260586/6

Matrix: Water

Analysis Batch: 260586

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Toluene	<0.11		0.50	0.11	ug/L			10/23/14 12:41	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/23/14 12:41	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/23/14 12:41	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/23/14 12:41	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/23/14 12:41	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/23/14 12:41	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/23/14 12:41	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	85		75 - 125		10/23/14 12:41	1
4-Bromofluorobenzene (Surr)	79		75 - 120		10/23/14 12:41	1
Dibromofluoromethane	99		75 - 120		10/23/14 12:41	1
Toluene-d8 (Surr)	96		75 - 120		10/23/14 12:41	1

Lab Sample ID: LCS 500-260586/4

Matrix: Water

Analysis Batch: 260586

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	50.0	54.1		ug/L		108	75 - 122
1,1,1-Trichloroethane	50.0	50.6		ug/L		101	72 - 130
1,1,1,2-Tetrachloroethane	50.0	47.4		ug/L		95	72 - 130
1,1,2-Trichloroethane	50.0	50.6		ug/L		101	75 - 120
1,1-Dichloroethane	50.0	44.7		ug/L		89	75 - 120
1,1-Dichloroethene	50.0	50.4		ug/L		101	69 - 120
1,1-Dichloropropene	50.0	50.8		ug/L		102	75 - 130
1,2,3-Trichlorobenzene	50.0	50.7		ug/L		101	69 - 131
1,2,3-Trichloropropane	50.0	38.8		ug/L		78	65 - 132
1,2,4-Trichlorobenzene	50.0	49.5		ug/L		99	73 - 130
1,2,4-Trimethylbenzene	50.0	52.0		ug/L		104	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	41.0		ug/L		82	62 - 130
1,2-Dibromoethane	50.0	50.1		ug/L		100	78 - 122
1,2-Dichlorobenzene	50.0	54.6		ug/L		109	75 - 120
1,2-Dichloroethane	50.0	43.3		ug/L		87	69 - 130
1,2-Dichloropropane	50.0	45.3		ug/L		91	75 - 120
1,3,5-Trimethylbenzene	50.0	51.8		ug/L		104	75 - 121
1,3-Dichlorobenzene	50.0	55.2		ug/L		110	75 - 120
1,3-Dichloropropane	50.0	48.6		ug/L		97	77 - 124
1,4-Dichlorobenzene	50.0	54.8		ug/L		110	75 - 120
2,2-Dichloropropane	50.0	42.9		ug/L		86	65 - 132
2-Chlorotoluene	50.0	48.4		ug/L		97	75 - 120
4-Chlorotoluene	50.0	49.1		ug/L		98	75 - 120
Benzene	50.0	50.1		ug/L		100	75 - 120
Bromobenzene	50.0	54.4		ug/L		109	75 - 120
Bromochloromethane	50.0	53.0		ug/L		106	76 - 120
Bromodichloromethane	50.0	48.8		ug/L		98	77 - 121
Bromoform	50.0	55.1		ug/L		110	68 - 126
Bromomethane	50.0	111	*	ug/L		222	45 - 169

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

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

Lab Sample ID: LCS 500-260586/4

Matrix: Water

Analysis Batch: 260586

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	50.0	55.8		ug/L		112	70 - 130
Chlorobenzene	50.0	52.7		ug/L		105	75 - 120
Chloroethane	50.0	115	*	ug/L		231	58 - 147
Chloroform	50.0	47.7		ug/L		95	76 - 120
Chloromethane	50.0	45.0		ug/L		90	63 - 133
cis-1,2-Dichloroethene	50.0	51.4		ug/L		103	75 - 120
cis-1,3-Dichloropropene	50.0	46.2		ug/L		92	78 - 130
Dibromochloromethane	50.0	52.5		ug/L		105	71 - 126
Dibromomethane	50.0	49.3		ug/L		99	75 - 120
Dichlorodifluoromethane	50.0	55.8		ug/L		112	41 - 146
Ethylbenzene	50.0	56.7		ug/L		113	75 - 120
Hexachlorobutadiene	50.0	53.9		ug/L		108	71 - 131
Isopropylbenzene	50.0	51.9		ug/L		104	75 - 121
Methyl tert-butyl ether	50.0	40.9		ug/L		82	75 - 130
Methylene Chloride	50.0	50.0		ug/L		100	73 - 130
Naphthalene	50.0	43.3		ug/L		87	69 - 135
n-Butylbenzene	50.0	51.0		ug/L		102	75 - 121
N-Propylbenzene	50.0	50.9		ug/L		102	75 - 120
p-Isopropyltoluene	50.0	54.4		ug/L		109	75 - 121
sec-Butylbenzene	50.0	53.1		ug/L		106	75 - 120
Styrene	50.0	55.2		ug/L		110	75 - 120
tert-Butylbenzene	50.0	53.6		ug/L		107	75 - 123
Tetrachloroethene	50.0	58.3		ug/L		117	75 - 120
Toluene	50.0	50.5		ug/L		101	75 - 120
trans-1,2-Dichloroethene	50.0	52.4		ug/L		105	77 - 120
trans-1,3-Dichloropropene	50.0	44.8		ug/L		90	74 - 130
Trichloroethene	50.0	54.7		ug/L		109	75 - 120
Trichlorofluoromethane	50.0	67.1	*	ug/L		134	71 - 130
Vinyl chloride	50.0	49.1		ug/L		98	72 - 123
Xylenes, Total	100	102		ug/L		102	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	82		75 - 125
4-Bromofluorobenzene (Surr)	86		75 - 120
Dibromofluoromethane	97		75 - 120
Toluene-d8 (Surr)	96		75 - 120

Lab Chronicle

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-86169-1

Date Collected: 10/14/14 00:00

Matrix: Water

Date Received: 10/16/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260250	10/22/14 04:28	BDA	TAL CHI

Client Sample ID: MP-13 (44-48)

Lab Sample ID: 500-86169-2

Date Collected: 10/14/14 16:41

Matrix: Water

Date Received: 10/16/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	260250	10/22/14 04:53	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	20	260250	10/22/14 05:18	BDA	TAL CHI

Client Sample ID: MP-13 (81-85)

Lab Sample ID: 500-86169-3

Date Collected: 10/14/14 15:59

Matrix: Water

Date Received: 10/16/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	260373	10/22/14 12:22	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	100	260373	10/22/14 12:47	BDA	TAL CHI

Client Sample ID: MP-13 (102-106)

Lab Sample ID: 500-86169-4

Date Collected: 10/14/14 15:01

Matrix: Water

Date Received: 10/16/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	260373	10/22/14 13:12	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	50	260373	10/22/14 13:37	BDA	TAL CHI

Client Sample ID: MP-13 (121-125)

Lab Sample ID: 500-86169-5

Date Collected: 10/14/14 16:59

Matrix: Water

Date Received: 10/16/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	260373	10/22/14 14:02	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	100	260373	10/22/14 14:26	BDA	TAL CHI

Client Sample ID: MP-13 (67-71)

Lab Sample ID: 500-86169-6

Date Collected: 10/14/14 16:24

Matrix: Water

Date Received: 10/16/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	260373	10/22/14 14:52	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	50	260373	10/22/14 15:16	BDA	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MP-13 (135-139)

Lab Sample ID: 500-86169-7

Date Collected: 10/14/14 14:02

Matrix: Water

Date Received: 10/16/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	260373	10/22/14 15:41	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	100	260373	10/22/14 16:06	BDA	TAL CHI

Client Sample ID: MP-13 (163-167)

Lab Sample ID: 500-86169-8

Date Collected: 10/14/14 13:25

Matrix: Water

Date Received: 10/16/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	5	260373	10/22/14 16:31	BDA	TAL CHI
Total/NA	Analysis	8260B		2	260586	10/23/14 21:49	BDA	TAL CHI

Client Sample ID: MW-24

Lab Sample ID: 500-86169-9

Date Collected: 10/14/14 17:10

Matrix: Water

Date Received: 10/16/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260373	10/22/14 17:21	BDA	TAL CHI

Client Sample ID: MW-9D

Lab Sample ID: 500-86169-10

Date Collected: 10/14/14 14:50

Matrix: Water

Date Received: 10/16/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260373	10/22/14 17:46	BDA	TAL CHI

Client Sample ID: MW-9D2

Lab Sample ID: 500-86169-11

Date Collected: 10/14/14 13:50

Matrix: Water

Date Received: 10/16/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260373	10/22/14 18:11	BDA	TAL CHI

Client Sample ID: MW-26S

Lab Sample ID: 500-86169-12

Date Collected: 10/15/14 09:45

Matrix: Water

Date Received: 10/16/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260373	10/22/14 18:35	BDA	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Client Sample ID: MW-3D

Lab Sample ID: 500-86169-13

Date Collected: 10/15/14 12:10

Matrix: Water

Date Received: 10/16/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	260373	10/22/14 19:00	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	20	260373	10/22/14 19:25	BDA	TAL CHI

Client Sample ID: MW-19D2

Lab Sample ID: 500-86169-14

Date Collected: 10/15/14 16:15

Matrix: Water

Date Received: 10/16/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	260373	10/22/14 19:50	BDA	TAL CHI

Client Sample ID: MW-19D2 Quenched

Lab Sample ID: 500-86169-15

Date Collected: 10/15/14 16:15

Matrix: Water

Date Received: 10/16/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	260373	10/22/14 20:40	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	20	260373	10/22/14 21:05	BDA	TAL CHI

Client Sample ID: Dup-4

Lab Sample ID: 500-86169-16

Date Collected: 10/14/14 00:00

Matrix: Water

Date Received: 10/16/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	260475	10/23/14 00:58	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	200	260475	10/23/14 01:23	BDA	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86169-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-15 *

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

* Certification renewal pending - certification considered valid.

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order # 500-86169

Contact & Company Name: Chris Kubacki AUS
Address: 126 N. Jefferson St #400
 City: Milwaukee State: WI Zip: 53202
Telephone: 414.276.7742
Fax: 414.276.7103
E-mail Address: chris.kubacki@arcadisusa.com
Project Name/Location (City, State): MKC (Madison, WI)
Project #: W10013108.0018.0002
Sampler's Printed Name: Nicole Dudai

Preservative: B
Filtered (✓):
of Containers: 3
Container Information: 1

Keys:

Preservation Key:
 A. H₂SO₄
 B. HCl
 C. HNO₃
 D. NaOH
 E. None
 F. Other: _____
 G. Other: _____
 H. Other: _____

Container Information Key:
 1. 40 ml Vial
 2. 1 L Amber
 3. 250 ml Plastic
 4. 500 ml Plastic
 5. Encore
 6. 2 oz. Glass
 7. 4 oz. Glass
 8. 8 oz. Glass
 9. Other: _____
 10. Other: _____

Matrix Key:
 SO - Soil SE - Sediment NL - NAPL/Oil
 W - Water SL - Sludge SW - Sample Wipe
 T - Tissue A - Air Other: _____

PARAMETER ANALYSIS & METHOD

Sample ID	Collection		Type (✓)		Matrix	Volts	Method
	Date	Time	Comp	Grab			
Trip Blank	-	-	-	-	W	1	
MP-13(41-48)	10/14/14	16:41		✓	W	3	
MP-13(81-85)	10/14/14	16:24		✓	W	3	
MP-13(102-106)	10/14/14	15:01		✓	W	3	
MP-13(121-125)	10/14/14	16:59		✓	W	3	
MP-13(67-71)	10/14/14	16:24		✓	W	3	
MP-13(135-139)	10/14/14	14:02		✓	W	3	
MP-13(168-167)	10/14/14	13:25		✓	W	3	
MW-24	10/14/14	17:10		✓	W	3	
MW-9D	10/14/14	14:50		✓	W	3	
MW-9D2	10/14/14	13:50		✓	W	3	
MW-26S	10/15/14	9:45		✓	W	3	
MW-3D	10/15/14	12:10		✓	W	3	
MW-19D2	10/15/14	16:15		✓	W	3	

500-86169 COC

REMARKS

Special Instructions/Comments: _____ Special QA/QC Instructions(✓): _____

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name: Test America	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: Nicole Dudai	Signature: <i>[Signature]</i>	Printed Name:	Signature:	Printed Name: Sherrri Scott	Signature: <i>[Signature]</i>	Printed Name:	Signature:
Specify Turnaround Requirements: Standard	Sample Receipt: 4.0	Firm: ARCADIS	Date/Time: 10/15/14	Firm/Courier:	Date/Time:	Firm/Courier: TA-CRET	Date/Time: 10/16/14 1010	Firm:	Date/Time:
Shipping Tracking #: 8060 8063 1847	Condition/Cooler Temp:								

1
2
3
4
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ID#: _____

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order # 500-86169

Send Results to:
 Contact & Company Name: Chris Kubacki (Arcadis) Telephone: (414) 277-6227
 Address: 126 N. Jefferson St. Fax: 414-276-7603
 City: Milwaukee State: WI Zip: _____ E-mail Address: chris.kubacki@arcadis-us.com

Preservative	<u>B</u>								
Filtered (✓)									
# of Containers	<u>3</u>								
Container Information	<u>1</u>								

- Keys**
- Preservation Key:**
 A. H₂SO₄
 B. HCL
 C. HNO₃
 D. NaOH
 E. None
 F. Other: _____
 G. Other: _____
 H. Other: _____
- Container Information Key:**
 1. 40 ml Vial
 2. 1 L Amber
 3. 250 ml Plastic
 4. 500 ml Plastic
 5. Encore
 6. 2 oz. Glass
 7. 4 oz. Glass
 8. 8 oz. Glass
 9. Other: _____
 10. Other: _____
- Matrix Key:**
 SO - Soil SE - Sediment NL - NAPL/Oil
 W - Water SL - Sludge SW - Sample Wipe
 T - Tissue A - Air Other: _____

PARAMETER ANALYSIS & METHOD

Project Name/Location (City, State): Madison-Kipp (Madison, WI) Project #: WI 001368-0018-00002
 Sampler's Printed Name: Nicole Dudeci Sampler's Signature: [Signature]

Sample ID	Collection		Type (✓)		Matrix														
	Date	Time	Comp	Grab															
<u>MWAD2 QUENCHED</u>	<u>10/15/14</u>	<u>145</u>		<input checked="" type="checkbox"/>	<u>W</u>	<u>3</u>													
<u>DUP-4</u>	<u>10/16/14</u>	<u>-</u>		<input checked="" type="checkbox"/>	<u>W</u>	<u>3</u>													

VOL Method Error

REMARKS

Special Instructions/Comments: _____ Special QA/QC Instructions(✓): _____

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name: <u>Test America</u>	Cooler Custody Seal (✓) <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: <u>Nicole Dudeci</u>	Signature: <u>[Signature]</u>	Printed Name: _____	Signature: _____	Printed Name: _____	Signature: _____	Printed Name: <u>Sherri Scott</u>	Signature: <u>[Signature]</u>
Specify Turnaround Requirements: <u>Standard</u>	Sample Receipt: _____	Firm: <u>ARCADIS</u>	Date/Time: <u>10/15/14 1800</u>	Firm/Courier: _____	Date/Time: _____	Firm/Courier: _____	Date/Time: _____	Firm: <u>TA-CHI</u>	Date/Time: <u>10/16/14 1010</u>
Shipping Tracking #: _____	Condition/Cooler Temp: <u>4.0</u>								

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-86169-1

Login Number: 86169

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Sample 12. Containers note MW-26
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-86239-1
Client Project/Site: MadisonKipp - WI001368.0018.00002

For:
ARCADIS U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee, Wisconsin 53202

Attn: Chris Kubacki



Authorized for release by:
10/29/2014 1:14:35 PM
Therese Hargraves, Project Manager I
therese.hargraves@testamericainc.com

Designee for
Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Job ID: 500-86239-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-86239-1

Comments

No additional comments.

Receipt

The samples were received on 10/17/2014 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9° C.

GC/MS VOA

Method(s) 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: DUP-1 (500-86239-18), MP-15 (100-105) (500-86239-5), MP-15 (120-125) (500-86239-4), MP-15 (142-146) (500-86239-3), MW-2D (500-86239-14), MW-3D (500-86239-16), MW-6D (500-86239-11). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: One surrogate recovery for the following samples was outside control limits: DUP-1 (500-86239-18), MW-6D (500-86239-11). Evidence of matrix interference is present. The samples were re-analyzed at a dilution to bring target analytes within calibration range. The diluted runs had all surrogates within limits; therefore no further corrective action was taken.

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

GC Semi VOA

Method(s) 8082: The continuing calibration verification (CCV) associated with batch 261299 recovered above the upper control limit for PCB-1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-22D (500-86239-17).

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

Field Service / Mobile Lab

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

Organic Prep

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

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-86239-1

No Detections.

Client Sample ID: MP-15 (177-187)

Lab Sample ID: 500-86239-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.23	J	0.50	0.074	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	31		1.0	0.12	ug/L	1		8260B	Total/NA
Tetrachloroethene	86		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	21		0.50	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	0.39	J	0.50	0.10	ug/L	1		8260B	Total/NA

Client Sample ID: MP-15 (142-146)

Lab Sample ID: 500-86239-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.37	J	1.0	0.15	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	150		2.0	0.24	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	1.3	J	2.0	0.50	ug/L	2		8260B	Total/NA
Trichloroethene	140		1.0	0.38	ug/L	2		8260B	Total/NA
Vinyl chloride	0.72	J	1.0	0.20	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	1000		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: MP-15 (120-125)

Lab Sample ID: 500-86239-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	260		5.0	0.60	ug/L	5		8260B	Total/NA
Trichloroethene	280		2.5	0.95	ug/L	5		8260B	Total/NA
Vinyl chloride	1.6	J	2.5	0.50	ug/L	5		8260B	Total/NA
Tetrachloroethene - DL	2300		50	8.5	ug/L	50		8260B	Total/NA

Client Sample ID: MP-15 (100-105)

Lab Sample ID: 500-86239-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	83		2.0	0.24	ug/L	2		8260B	Total/NA
Trichloroethene	93		1.0	0.38	ug/L	2		8260B	Total/NA
Vinyl chloride	0.46	J	1.0	0.20	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	930		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: MP-15 (88-92)

Lab Sample ID: 500-86239-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	12		1.0	0.12	ug/L	1		8260B	Total/NA
Tetrachloroethene	100		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	12		0.50	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: MP-16 (175-179)

Lab Sample ID: 500-86239-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	4.8		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	0.98		0.50	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: MP-16 (140-144)

Lab Sample ID: 500-86239-8

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MP-16 (140-144) (Continued)

Lab Sample ID: 500-86239-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.4		1.0	0.12	ug/L	1		8260B	Total/NA
Tetrachloroethene	35		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	6.9		0.50	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: MP-16 (106-116)

Lab Sample ID: 500-86239-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	10		1.0	0.12	ug/L	1		8260B	Total/NA
Tetrachloroethene	110		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	16		0.50	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: MP-16 (80-84)

Lab Sample ID: 500-86239-10

No Detections.

Client Sample ID: MW-6D

Lab Sample ID: 500-86239-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	13		2.0	0.28	ug/L	2		8260B	Total/NA
1,2-Dichloropropane	2.4		2.0	0.40	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	2.4		2.0	0.24	ug/L	2		8260B	Total/NA
Ethylbenzene	8.0		1.0	0.26	ug/L	2		8260B	Total/NA
Isopropylbenzene	24		2.0	0.28	ug/L	2		8260B	Total/NA
Methylene Chloride	76		10	1.4	ug/L	2		8260B	Total/NA
Naphthalene	18		2.0	0.32	ug/L	2		8260B	Total/NA
N-Propylbenzene	7.9		2.0	0.26	ug/L	2		8260B	Total/NA
p-Isopropyltoluene	2.5		2.0	0.34	ug/L	2		8260B	Total/NA
sec-Butylbenzene	2.8		2.0	0.30	ug/L	2		8260B	Total/NA
Tetrachloroethene	4.0		2.0	0.34	ug/L	2		8260B	Total/NA
Toluene	26		1.0	0.22	ug/L	2		8260B	Total/NA
Trichloroethene	31		1.0	0.38	ug/L	2		8260B	Total/NA
Xylenes, Total	25		2.0	0.14	ug/L	2		8260B	Total/NA
Benzene - DL	990		10	1.5	ug/L	20		8260B	Total/NA

Client Sample ID: MW-2S

Lab Sample ID: 500-86239-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.0		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-6S

Lab Sample ID: 500-86239-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	0.96	J	1.0	0.14	ug/L	1		8260B	Total/NA
Benzene	2.1		0.50	0.074	ug/L	1		8260B	Total/NA
Ethylbenzene	3.5		0.50	0.13	ug/L	1		8260B	Total/NA
Isopropylbenzene	2.1		1.0	0.14	ug/L	1		8260B	Total/NA
Naphthalene	1.9		1.0	0.16	ug/L	1		8260B	Total/NA
Xylenes, Total	1.9		1.0	0.068	ug/L	1		8260B	Total/NA

Client Sample ID: MW-2D

Lab Sample ID: 500-86239-14

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MW-2D (Continued)

Lab Sample ID: 500-86239-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.1		1.0	0.38	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	540		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: MW-303

Lab Sample ID: 500-86239-15

No Detections.

Client Sample ID: MW-3D

Lab Sample ID: 500-86239-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.55	J	1.0	0.15	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	170		2.0	0.24	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	9.3		2.0	0.50	ug/L	2		8260B	Total/NA
Trichloroethene	170		1.0	0.38	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	1100		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: MW-22D

Lab Sample ID: 500-86239-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.2		1.0	0.12	ug/L	1		8260B	Total/NA
Methylene Chloride	6.6		5.0	0.68	ug/L	1		8260B	Total/NA
Trichloroethene	5.7		0.50	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	0.68		0.50	0.10	ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	250		10	1.7	ug/L	10		8260B	Total/NA

Client Sample ID: DUP-1

Lab Sample ID: 500-86239-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	13		2.0	0.28	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	2.2		2.0	0.24	ug/L	2		8260B	Total/NA
Ethylbenzene	7.2		1.0	0.26	ug/L	2		8260B	Total/NA
Isopropylbenzene	20		2.0	0.28	ug/L	2		8260B	Total/NA
Methylene Chloride	61		10	1.4	ug/L	2		8260B	Total/NA
Naphthalene	15		2.0	0.32	ug/L	2		8260B	Total/NA
N-Propylbenzene	7.5		2.0	0.26	ug/L	2		8260B	Total/NA
p-Isopropyltoluene	2.2		2.0	0.34	ug/L	2		8260B	Total/NA
sec-Butylbenzene	2.3		2.0	0.30	ug/L	2		8260B	Total/NA
Tetrachloroethene	3.1		2.0	0.34	ug/L	2		8260B	Total/NA
Toluene	27		1.0	0.22	ug/L	2		8260B	Total/NA
Trichloroethene	28		1.0	0.38	ug/L	2		8260B	Total/NA
Xylenes, Total	24		2.0	0.14	ug/L	2		8260B	Total/NA
Benzene - DL	980		10	1.5	ug/L	20		8260B	Total/NA

Client Sample ID: DUP-2

Lab Sample ID: 500-86239-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.9		1.0	0.12	ug/L	1		8260B	Total/NA
Methylene Chloride	7.1		5.0	0.68	ug/L	1		8260B	Total/NA
Trichloroethene	6.9		0.50	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	0.66		0.50	0.10	ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	270		10	1.7	ug/L	10		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-86239-1	Trip Blank	Water	10/16/14 00:00	10/17/14 09:15
500-86239-2	MP-15 (177-187)	Water	10/16/14 09:50	10/17/14 09:15
500-86239-3	MP-15 (142-146)	Water	10/16/14 10:10	10/17/14 09:15
500-86239-4	MP-15 (120-125)	Water	10/16/14 10:30	10/17/14 09:15
500-86239-5	MP-15 (100-105)	Water	10/16/14 10:37	10/17/14 09:15
500-86239-6	MP-15 (88-92)	Water	10/16/14 11:00	10/17/14 09:15
500-86239-7	MP-16 (175-179)	Water	10/16/14 13:35	10/17/14 09:15
500-86239-8	MP-16 (140-144)	Water	10/16/14 13:37	10/17/14 09:15
500-86239-9	MP-16 (106-116)	Water	10/16/14 13:55	10/17/14 09:15
500-86239-10	MP-16 (80-84)	Water	10/16/14 14:05	10/17/14 09:15
500-86239-11	MW-6D	Water	10/16/14 11:10	10/17/14 09:15
500-86239-12	MW-2S	Water	10/16/14 14:50	10/17/14 09:15
500-86239-13	MW-6S	Water	10/16/14 14:05	10/17/14 09:15
500-86239-14	MW-2D	Water	10/16/14 13:45	10/17/14 09:15
500-86239-15	MW-303	Water	10/16/14 17:08	10/17/14 09:15
500-86239-16	MW-3D	Water	10/16/14 18:17	10/17/14 09:15
500-86239-17	MW-22D	Water	10/16/14 17:50	10/17/14 09:15
500-86239-18	DUP-1	Water	10/16/14 00:00	10/17/14 09:15
500-86239-19	DUP-2	Water	10/16/14 00:00	10/17/14 09:15

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-86239-1

Date Collected: 10/16/14 00:00

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/23/14 15:26	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/23/14 15:26	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/23/14 15:26	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/23/14 15:26	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/23/14 15:26	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/23/14 15:26	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/23/14 15:26	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/23/14 15:26	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/23/14 15:26	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/23/14 15:26	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/23/14 15:26	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/23/14 15:26	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/23/14 15:26	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/23/14 15:26	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/23/14 15:26	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/23/14 15:26	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/23/14 15:26	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/23/14 15:26	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/23/14 15:26	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/23/14 15:26	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/23/14 15:26	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/23/14 15:26	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/23/14 15:26	1
Benzene	<0.074		0.50	0.074	ug/L			10/23/14 15:26	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/23/14 15:26	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/23/14 15:26	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/23/14 15:26	1
Bromoform	<0.28		1.0	0.28	ug/L			10/23/14 15:26	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/23/14 15:26	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/23/14 15:26	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/23/14 15:26	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/23/14 15:26	1
Chloroform	<0.20		1.0	0.20	ug/L			10/23/14 15:26	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/23/14 15:26	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/23/14 15:26	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/23/14 15:26	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/23/14 15:26	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/23/14 15:26	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/23/14 15:26	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/23/14 15:26	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/23/14 15:26	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/23/14 15:26	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/23/14 15:26	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/23/14 15:26	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/23/14 15:26	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/23/14 15:26	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/23/14 15:26	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/23/14 15:26	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/23/14 15:26	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-86239-1

Date Collected: 10/16/14 00:00

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/23/14 15:26	1
Styrene	<0.10		1.0	0.10	ug/L			10/23/14 15:26	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/23/14 15:26	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/23/14 15:26	1
Toluene	<0.11		0.50	0.11	ug/L			10/23/14 15:26	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/23/14 15:26	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/23/14 15:26	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/23/14 15:26	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/23/14 15:26	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/23/14 15:26	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/23/14 15:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		75 - 125					10/23/14 15:26	1
4-Bromofluorobenzene (Surr)	98		75 - 120					10/23/14 15:26	1
Dibromofluoromethane	93		75 - 120					10/23/14 15:26	1
Toluene-d8 (Surr)	89		75 - 120					10/23/14 15:26	1

Client Sample ID: MP-15 (177-187)

Lab Sample ID: 500-86239-2

Date Collected: 10/16/14 09:50

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/22/14 20:16	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/22/14 20:16	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/22/14 20:16	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/22/14 20:16	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/22/14 20:16	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/22/14 20:16	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/22/14 20:16	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/22/14 20:16	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/22/14 20:16	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/22/14 20:16	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 20:16	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/22/14 20:16	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/22/14 20:16	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/22/14 20:16	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/22/14 20:16	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/22/14 20:16	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/22/14 20:16	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/22/14 20:16	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/22/14 20:16	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/22/14 20:16	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/22/14 20:16	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/22/14 20:16	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/22/14 20:16	1
Benzene	0.23 J		0.50	0.074	ug/L			10/22/14 20:16	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/22/14 20:16	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/22/14 20:16	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MP-15 (177-187)

Lab Sample ID: 500-86239-2

Date Collected: 10/16/14 09:50

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/22/14 20:16	1
Bromoform	<0.28		1.0	0.28	ug/L			10/22/14 20:16	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/22/14 20:16	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/22/14 20:16	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/22/14 20:16	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/22/14 20:16	1
Chloroform	<0.20		1.0	0.20	ug/L			10/22/14 20:16	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/22/14 20:16	1
cis-1,2-Dichloroethene	31		1.0	0.12	ug/L			10/22/14 20:16	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/22/14 20:16	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/14 20:16	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/22/14 20:16	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/22/14 20:16	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/22/14 20:16	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/22/14 20:16	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/22/14 20:16	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 20:16	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/22/14 20:16	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/22/14 20:16	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/22/14 20:16	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/22/14 20:16	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/22/14 20:16	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/22/14 20:16	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/22/14 20:16	1
Styrene	<0.10		1.0	0.10	ug/L			10/22/14 20:16	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 20:16	1
Tetrachloroethene	86		1.0	0.17	ug/L			10/22/14 20:16	1
Toluene	<0.11		0.50	0.11	ug/L			10/22/14 20:16	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/22/14 20:16	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/22/14 20:16	1
Trichloroethene	21		0.50	0.19	ug/L			10/22/14 20:16	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/22/14 20:16	1
Vinyl chloride	0.39 J		0.50	0.10	ug/L			10/22/14 20:16	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/22/14 20:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		75 - 125		10/22/14 20:16	1
4-Bromofluorobenzene (Surr)	102		75 - 120		10/22/14 20:16	1
Dibromofluoromethane	91		75 - 120		10/22/14 20:16	1
Toluene-d8 (Surr)	94		75 - 120		10/22/14 20:16	1

Client Sample ID: MP-15 (142-146)

Lab Sample ID: 500-86239-3

Date Collected: 10/16/14 10:10

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			10/22/14 20:43	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			10/22/14 20:43	2
1,1,1,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			10/22/14 20:43	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MP-15 (142-146)

Lab Sample ID: 500-86239-3

Date Collected: 10/16/14 10:10

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			10/22/14 20:43	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			10/22/14 20:43	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			10/22/14 20:43	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			10/22/14 20:43	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			10/22/14 20:43	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			10/22/14 20:43	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			10/22/14 20:43	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			10/22/14 20:43	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			10/22/14 20:43	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			10/22/14 20:43	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			10/22/14 20:43	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			10/22/14 20:43	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			10/22/14 20:43	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			10/22/14 20:43	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/22/14 20:43	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			10/22/14 20:43	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/22/14 20:43	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			10/22/14 20:43	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			10/22/14 20:43	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			10/22/14 20:43	2
Benzene	0.37	J	1.0	0.15	ug/L			10/22/14 20:43	2
Bromobenzene	<0.50		2.0	0.50	ug/L			10/22/14 20:43	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			10/22/14 20:43	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			10/22/14 20:43	2
Bromoform	<0.56		2.0	0.56	ug/L			10/22/14 20:43	2
Bromomethane	<0.62		2.0	0.62	ug/L			10/22/14 20:43	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			10/22/14 20:43	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			10/22/14 20:43	2
Chloroethane	<0.68		2.0	0.68	ug/L			10/22/14 20:43	2
Chloroform	<0.40		2.0	0.40	ug/L			10/22/14 20:43	2
Chloromethane	<0.36		2.0	0.36	ug/L			10/22/14 20:43	2
cis-1,2-Dichloroethene	150		2.0	0.24	ug/L			10/22/14 20:43	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			10/22/14 20:43	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			10/22/14 20:43	2
Dibromomethane	<0.66		2.0	0.66	ug/L			10/22/14 20:43	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			10/22/14 20:43	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			10/22/14 20:43	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			10/22/14 20:43	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			10/22/14 20:43	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			10/22/14 20:43	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			10/22/14 20:43	2
Methylene Chloride	<1.4		10	1.4	ug/L			10/22/14 20:43	2
Naphthalene	<0.32		2.0	0.32	ug/L			10/22/14 20:43	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			10/22/14 20:43	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			10/22/14 20:43	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			10/22/14 20:43	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			10/22/14 20:43	2
Styrene	<0.20		2.0	0.20	ug/L			10/22/14 20:43	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			10/22/14 20:43	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MP-15 (142-146)

Lab Sample ID: 500-86239-3

Date Collected: 10/16/14 10:10

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.22		1.0	0.22	ug/L			10/22/14 20:43	2
trans-1,2-Dichloroethene	1.3	J	2.0	0.50	ug/L			10/22/14 20:43	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			10/22/14 20:43	2
Trichloroethene	140		1.0	0.38	ug/L			10/22/14 20:43	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			10/22/14 20:43	2
Vinyl chloride	0.72	J	1.0	0.20	ug/L			10/22/14 20:43	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			10/22/14 20:43	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 125		10/22/14 20:43	2
4-Bromofluorobenzene (Surr)	103		75 - 120		10/22/14 20:43	2
Dibromofluoromethane	91		75 - 120		10/22/14 20:43	2
Toluene-d8 (Surr)	96		75 - 120		10/22/14 20:43	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1000		20	3.4	ug/L			10/22/14 21:09	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		75 - 125		10/22/14 21:09	20
4-Bromofluorobenzene (Surr)	104		75 - 120		10/22/14 21:09	20
Dibromofluoromethane	90		75 - 120		10/22/14 21:09	20
Toluene-d8 (Surr)	90		75 - 120		10/22/14 21:09	20

Client Sample ID: MP-15 (120-125)

Lab Sample ID: 500-86239-4

Date Collected: 10/16/14 10:30

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.3		5.0	1.3	ug/L			10/23/14 19:26	5
1,1,1-Trichloroethane	<1.0		5.0	1.0	ug/L			10/23/14 19:26	5
1,1,1,2,2-Tetrachloroethane	<1.2		5.0	1.2	ug/L			10/23/14 19:26	5
1,1,2-Trichloroethane	<1.4		5.0	1.4	ug/L			10/23/14 19:26	5
1,1-Dichloroethane	<0.95		5.0	0.95	ug/L			10/23/14 19:26	5
1,1-Dichloroethene	<1.6		5.0	1.6	ug/L			10/23/14 19:26	5
1,1-Dichloropropene	<1.7		5.0	1.7	ug/L			10/23/14 19:26	5
1,2,3-Trichlorobenzene	<1.2		5.0	1.2	ug/L			10/23/14 19:26	5
1,2,3-Trichloropropane	<2.3		5.0	2.3	ug/L			10/23/14 19:26	5
1,2,4-Trichlorobenzene	<1.6		5.0	1.6	ug/L			10/23/14 19:26	5
1,2,4-Trimethylbenzene	<0.70		5.0	0.70	ug/L			10/23/14 19:26	5
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/L			10/23/14 19:26	5
1,2-Dibromoethane	<1.8		5.0	1.8	ug/L			10/23/14 19:26	5
1,2-Dichlorobenzene	<1.4		5.0	1.4	ug/L			10/23/14 19:26	5
1,2-Dichloroethane	<1.4		5.0	1.4	ug/L			10/23/14 19:26	5
1,2-Dichloropropane	<1.0		5.0	1.0	ug/L			10/23/14 19:26	5
1,3,5-Trimethylbenzene	<0.90		5.0	0.90	ug/L			10/23/14 19:26	5
1,3-Dichlorobenzene	<0.75		5.0	0.75	ug/L			10/23/14 19:26	5
1,3-Dichloropropane	<0.65		5.0	0.65	ug/L			10/23/14 19:26	5
1,4-Dichlorobenzene	<0.75		5.0	0.75	ug/L			10/23/14 19:26	5

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MP-15 (120-125)

Lab Sample ID: 500-86239-4

Date Collected: 10/16/14 10:30

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	<1.6		5.0	1.6	ug/L			10/23/14 19:26	5
2-Chlorotoluene	<1.1		5.0	1.1	ug/L			10/23/14 19:26	5
4-Chlorotoluene	<1.0		5.0	1.0	ug/L			10/23/14 19:26	5
Benzene	<0.37		2.5	0.37	ug/L			10/23/14 19:26	5
Bromobenzene	<1.3		5.0	1.3	ug/L			10/23/14 19:26	5
Bromochloromethane	<2.0		5.0	2.0	ug/L			10/23/14 19:26	5
Bromodichloromethane	<0.85		5.0	0.85	ug/L			10/23/14 19:26	5
Bromoform	<1.4		5.0	1.4	ug/L			10/23/14 19:26	5
Bromomethane	<1.6		5.0	1.6	ug/L			10/23/14 19:26	5
Carbon tetrachloride	<1.3		5.0	1.3	ug/L			10/23/14 19:26	5
Chlorobenzene	<0.70		5.0	0.70	ug/L			10/23/14 19:26	5
Chloroethane	<1.7		5.0	1.7	ug/L			10/23/14 19:26	5
Chloroform	<1.0		5.0	1.0	ug/L			10/23/14 19:26	5
Chloromethane	<0.90		5.0	0.90	ug/L			10/23/14 19:26	5
cis-1,2-Dichloroethene	260		5.0	0.60	ug/L			10/23/14 19:26	5
cis-1,3-Dichloropropene	<0.90		5.0	0.90	ug/L			10/23/14 19:26	5
Dibromochloromethane	<1.6		5.0	1.6	ug/L			10/23/14 19:26	5
Dibromomethane	<1.7		5.0	1.7	ug/L			10/23/14 19:26	5
Dichlorodifluoromethane	<1.0		5.0	1.0	ug/L			10/23/14 19:26	5
Ethylbenzene	<0.65		2.5	0.65	ug/L			10/23/14 19:26	5
Hexachlorobutadiene	<1.3		5.0	1.3	ug/L			10/23/14 19:26	5
Isopropyl ether	<0.75		5.0	0.75	ug/L			10/23/14 19:26	5
Isopropylbenzene	<0.70		5.0	0.70	ug/L			10/23/14 19:26	5
Methyl tert-butyl ether	<1.2		5.0	1.2	ug/L			10/23/14 19:26	5
Methylene Chloride	<3.4		25	3.4	ug/L			10/23/14 19:26	5
Naphthalene	<0.80		5.0	0.80	ug/L			10/23/14 19:26	5
n-Butylbenzene	<0.65		5.0	0.65	ug/L			10/23/14 19:26	5
N-Propylbenzene	<0.65		5.0	0.65	ug/L			10/23/14 19:26	5
p-Isopropyltoluene	<0.85		5.0	0.85	ug/L			10/23/14 19:26	5
sec-Butylbenzene	<0.75		5.0	0.75	ug/L			10/23/14 19:26	5
Styrene	<0.50		5.0	0.50	ug/L			10/23/14 19:26	5
tert-Butylbenzene	<0.70		5.0	0.70	ug/L			10/23/14 19:26	5
Toluene	<0.55		2.5	0.55	ug/L			10/23/14 19:26	5
trans-1,2-Dichloroethene	<1.3		5.0	1.3	ug/L			10/23/14 19:26	5
trans-1,3-Dichloropropene	<1.1		5.0	1.1	ug/L			10/23/14 19:26	5
Trichloroethene	280		2.5	0.95	ug/L			10/23/14 19:26	5
Trichlorofluoromethane	<0.95		5.0	0.95	ug/L			10/23/14 19:26	5
Vinyl chloride	1.6 J		2.5	0.50	ug/L			10/23/14 19:26	5
Xylenes, Total	<0.34		5.0	0.34	ug/L			10/23/14 19:26	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		75 - 125		10/23/14 19:26	5
4-Bromofluorobenzene (Surr)	91		75 - 120		10/23/14 19:26	5
Dibromofluoromethane	94		75 - 120		10/23/14 19:26	5
Toluene-d8 (Surr)	86		75 - 120		10/23/14 19:26	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	2300		50	8.5	ug/L			10/23/14 19:53	50

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MP-15 (120-125)

Lab Sample ID: 500-86239-4

Date Collected: 10/16/14 10:30

Matrix: Water

Date Received: 10/17/14 09:15

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		75 - 125		10/23/14 19:53	50
4-Bromofluorobenzene (Surr)	96		75 - 120		10/23/14 19:53	50
Dibromofluoromethane	87		75 - 120		10/23/14 19:53	50
Toluene-d8 (Surr)	87		75 - 120		10/23/14 19:53	50

Client Sample ID: MP-15 (100-105)

Lab Sample ID: 500-86239-5

Date Collected: 10/16/14 10:37

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			10/23/14 20:20	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			10/23/14 20:20	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			10/23/14 20:20	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			10/23/14 20:20	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			10/23/14 20:20	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			10/23/14 20:20	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			10/23/14 20:20	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			10/23/14 20:20	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			10/23/14 20:20	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			10/23/14 20:20	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			10/23/14 20:20	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			10/23/14 20:20	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			10/23/14 20:20	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			10/23/14 20:20	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			10/23/14 20:20	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			10/23/14 20:20	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			10/23/14 20:20	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/23/14 20:20	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			10/23/14 20:20	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/23/14 20:20	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			10/23/14 20:20	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			10/23/14 20:20	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			10/23/14 20:20	2
Benzene	<0.15		1.0	0.15	ug/L			10/23/14 20:20	2
Bromobenzene	<0.50		2.0	0.50	ug/L			10/23/14 20:20	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			10/23/14 20:20	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			10/23/14 20:20	2
Bromoform	<0.56		2.0	0.56	ug/L			10/23/14 20:20	2
Bromomethane	<0.62		2.0	0.62	ug/L			10/23/14 20:20	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			10/23/14 20:20	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			10/23/14 20:20	2
Chloroethane	<0.68		2.0	0.68	ug/L			10/23/14 20:20	2
Chloroform	<0.40		2.0	0.40	ug/L			10/23/14 20:20	2
Chloromethane	<0.36		2.0	0.36	ug/L			10/23/14 20:20	2
cis-1,2-Dichloroethene	83		2.0	0.24	ug/L			10/23/14 20:20	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			10/23/14 20:20	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			10/23/14 20:20	2
Dibromomethane	<0.66		2.0	0.66	ug/L			10/23/14 20:20	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			10/23/14 20:20	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MP-15 (100-105)

Lab Sample ID: 500-86239-5

Date Collected: 10/16/14 10:37

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.26		1.0	0.26	ug/L			10/23/14 20:20	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			10/23/14 20:20	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			10/23/14 20:20	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			10/23/14 20:20	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			10/23/14 20:20	2
Methylene Chloride	<1.4		10	1.4	ug/L			10/23/14 20:20	2
Naphthalene	<0.32		2.0	0.32	ug/L			10/23/14 20:20	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			10/23/14 20:20	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			10/23/14 20:20	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			10/23/14 20:20	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			10/23/14 20:20	2
Styrene	<0.20		2.0	0.20	ug/L			10/23/14 20:20	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			10/23/14 20:20	2
Toluene	<0.22		1.0	0.22	ug/L			10/23/14 20:20	2
trans-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			10/23/14 20:20	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			10/23/14 20:20	2
Trichloroethene	93		1.0	0.38	ug/L			10/23/14 20:20	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			10/23/14 20:20	2
Vinyl chloride	0.46 J		1.0	0.20	ug/L			10/23/14 20:20	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			10/23/14 20:20	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 125		10/23/14 20:20	2
4-Bromofluorobenzene (Surr)	98		75 - 120		10/23/14 20:20	2
Dibromofluoromethane	92		75 - 120		10/23/14 20:20	2
Toluene-d8 (Surr)	96		75 - 120		10/23/14 20:20	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	930		20	3.4	ug/L			10/23/14 20:47	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		75 - 125		10/23/14 20:47	20
4-Bromofluorobenzene (Surr)	92		75 - 120		10/23/14 20:47	20
Dibromofluoromethane	95		75 - 120		10/23/14 20:47	20
Toluene-d8 (Surr)	97		75 - 120		10/23/14 20:47	20

Client Sample ID: MP-15 (88-92)

Lab Sample ID: 500-86239-6

Date Collected: 10/16/14 11:00

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/23/14 21:13	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/23/14 21:13	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/23/14 21:13	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/23/14 21:13	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/23/14 21:13	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/23/14 21:13	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/23/14 21:13	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MP-15 (88-92)

Lab Sample ID: 500-86239-6

Date Collected: 10/16/14 11:00

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/23/14 21:13	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/23/14 21:13	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/23/14 21:13	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/23/14 21:13	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/23/14 21:13	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/23/14 21:13	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/23/14 21:13	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/23/14 21:13	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/23/14 21:13	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/23/14 21:13	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/23/14 21:13	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/23/14 21:13	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/23/14 21:13	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/23/14 21:13	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/23/14 21:13	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/23/14 21:13	1
Benzene	<0.074		0.50	0.074	ug/L			10/23/14 21:13	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/23/14 21:13	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/23/14 21:13	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/23/14 21:13	1
Bromoform	<0.28		1.0	0.28	ug/L			10/23/14 21:13	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/23/14 21:13	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/23/14 21:13	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/23/14 21:13	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/23/14 21:13	1
Chloroform	<0.20		1.0	0.20	ug/L			10/23/14 21:13	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/23/14 21:13	1
cis-1,2-Dichloroethene	12		1.0	0.12	ug/L			10/23/14 21:13	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/23/14 21:13	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/23/14 21:13	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/23/14 21:13	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/23/14 21:13	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/23/14 21:13	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/23/14 21:13	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/23/14 21:13	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/23/14 21:13	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/23/14 21:13	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/23/14 21:13	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/23/14 21:13	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/23/14 21:13	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/23/14 21:13	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/23/14 21:13	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/23/14 21:13	1
Styrene	<0.10		1.0	0.10	ug/L			10/23/14 21:13	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/23/14 21:13	1
Tetrachloroethene	100		1.0	0.17	ug/L			10/23/14 21:13	1
Toluene	<0.11		0.50	0.11	ug/L			10/23/14 21:13	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/23/14 21:13	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/23/14 21:13	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MP-15 (88-92)

Lab Sample ID: 500-86239-6

Date Collected: 10/16/14 11:00

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	12		0.50	0.19	ug/L			10/23/14 21:13	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/23/14 21:13	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/23/14 21:13	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/23/14 21:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125					10/23/14 21:13	1
4-Bromofluorobenzene (Surr)	95		75 - 120					10/23/14 21:13	1
Dibromofluoromethane	102		75 - 120					10/23/14 21:13	1
Toluene-d8 (Surr)	92		75 - 120					10/23/14 21:13	1

Client Sample ID: MP-16 (175-179)

Lab Sample ID: 500-86239-7

Date Collected: 10/16/14 13:35

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/23/14 21:40	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/23/14 21:40	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/23/14 21:40	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/23/14 21:40	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/23/14 21:40	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/23/14 21:40	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/23/14 21:40	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/23/14 21:40	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/23/14 21:40	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/23/14 21:40	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/23/14 21:40	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/23/14 21:40	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/23/14 21:40	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/23/14 21:40	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/23/14 21:40	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/23/14 21:40	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/23/14 21:40	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/23/14 21:40	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/23/14 21:40	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/23/14 21:40	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/23/14 21:40	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/23/14 21:40	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/23/14 21:40	1
Benzene	<0.074		0.50	0.074	ug/L			10/23/14 21:40	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/23/14 21:40	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/23/14 21:40	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/23/14 21:40	1
Bromoform	<0.28		1.0	0.28	ug/L			10/23/14 21:40	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/23/14 21:40	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/23/14 21:40	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/23/14 21:40	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/23/14 21:40	1
Chloroform	<0.20		1.0	0.20	ug/L			10/23/14 21:40	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MP-16 (175-179)

Lab Sample ID: 500-86239-7

Date Collected: 10/16/14 13:35

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<0.18		1.0	0.18	ug/L			10/23/14 21:40	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/23/14 21:40	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/23/14 21:40	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/23/14 21:40	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/23/14 21:40	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/23/14 21:40	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/23/14 21:40	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/23/14 21:40	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/23/14 21:40	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/23/14 21:40	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/23/14 21:40	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/23/14 21:40	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/23/14 21:40	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/23/14 21:40	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/23/14 21:40	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/23/14 21:40	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/23/14 21:40	1
Styrene	<0.10		1.0	0.10	ug/L			10/23/14 21:40	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/23/14 21:40	1
Tetrachloroethene	4.8		1.0	0.17	ug/L			10/23/14 21:40	1
Toluene	<0.11		0.50	0.11	ug/L			10/23/14 21:40	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/23/14 21:40	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/23/14 21:40	1
Trichloroethene	0.98		0.50	0.19	ug/L			10/23/14 21:40	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/23/14 21:40	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/23/14 21:40	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/23/14 21:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		75 - 125		10/23/14 21:40	1
4-Bromofluorobenzene (Surr)	95		75 - 120		10/23/14 21:40	1
Dibromofluoromethane	99		75 - 120		10/23/14 21:40	1
Toluene-d8 (Surr)	95		75 - 120		10/23/14 21:40	1

Client Sample ID: MP-16 (140-144)

Lab Sample ID: 500-86239-8

Date Collected: 10/16/14 13:37

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/25/14 03:13	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/25/14 03:13	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/25/14 03:13	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/25/14 03:13	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/25/14 03:13	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/25/14 03:13	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/25/14 03:13	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/25/14 03:13	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/25/14 03:13	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/25/14 03:13	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MP-16 (140-144)

Lab Sample ID: 500-86239-8

Date Collected: 10/16/14 13:37

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/25/14 03:13	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/25/14 03:13	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/25/14 03:13	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/25/14 03:13	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/25/14 03:13	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/25/14 03:13	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/25/14 03:13	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/25/14 03:13	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/25/14 03:13	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/25/14 03:13	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/25/14 03:13	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/25/14 03:13	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/25/14 03:13	1
Benzene	<0.074		0.50	0.074	ug/L			10/25/14 03:13	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/25/14 03:13	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/25/14 03:13	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/25/14 03:13	1
Bromoform	<0.28		1.0	0.28	ug/L			10/25/14 03:13	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/25/14 03:13	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/25/14 03:13	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/25/14 03:13	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/25/14 03:13	1
Chloroform	<0.20		1.0	0.20	ug/L			10/25/14 03:13	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/25/14 03:13	1
cis-1,2-Dichloroethene	1.4		1.0	0.12	ug/L			10/25/14 03:13	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/25/14 03:13	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/25/14 03:13	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/25/14 03:13	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/25/14 03:13	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/25/14 03:13	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/25/14 03:13	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/25/14 03:13	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/25/14 03:13	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/25/14 03:13	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/25/14 03:13	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/25/14 03:13	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/25/14 03:13	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/25/14 03:13	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/25/14 03:13	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/25/14 03:13	1
Styrene	<0.10		1.0	0.10	ug/L			10/25/14 03:13	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/25/14 03:13	1
Tetrachloroethene	35		1.0	0.17	ug/L			10/25/14 03:13	1
Toluene	<0.11		0.50	0.11	ug/L			10/25/14 03:13	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/25/14 03:13	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/25/14 03:13	1
Trichloroethene	6.9		0.50	0.19	ug/L			10/25/14 03:13	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/25/14 03:13	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/25/14 03:13	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MP-16 (140-144)

Lab Sample ID: 500-86239-8

Date Collected: 10/16/14 13:37

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/25/14 03:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 125					10/25/14 03:13	1
4-Bromofluorobenzene (Surr)	80		75 - 120					10/25/14 03:13	1
Dibromofluoromethane	100		75 - 120					10/25/14 03:13	1
Toluene-d8 (Surr)	91		75 - 120					10/25/14 03:13	1

Client Sample ID: MP-16 (106-116)

Lab Sample ID: 500-86239-9

Date Collected: 10/16/14 13:55

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/25/14 03:39	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/25/14 03:39	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/25/14 03:39	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/25/14 03:39	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/25/14 03:39	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/25/14 03:39	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/25/14 03:39	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/25/14 03:39	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/25/14 03:39	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/25/14 03:39	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/25/14 03:39	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/25/14 03:39	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/25/14 03:39	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/25/14 03:39	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/25/14 03:39	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/25/14 03:39	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/25/14 03:39	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/25/14 03:39	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/25/14 03:39	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/25/14 03:39	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/25/14 03:39	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/25/14 03:39	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/25/14 03:39	1
Benzene	<0.074		0.50	0.074	ug/L			10/25/14 03:39	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/25/14 03:39	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/25/14 03:39	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/25/14 03:39	1
Bromoform	<0.28		1.0	0.28	ug/L			10/25/14 03:39	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/25/14 03:39	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/25/14 03:39	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/25/14 03:39	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/25/14 03:39	1
Chloroform	<0.20		1.0	0.20	ug/L			10/25/14 03:39	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/25/14 03:39	1
cis-1,2-Dichloroethene	10		1.0	0.12	ug/L			10/25/14 03:39	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/25/14 03:39	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MP-16 (106-116)

Lab Sample ID: 500-86239-9

Date Collected: 10/16/14 13:55

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/25/14 03:39	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/25/14 03:39	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/25/14 03:39	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/25/14 03:39	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/25/14 03:39	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/25/14 03:39	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/25/14 03:39	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/25/14 03:39	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/25/14 03:39	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/25/14 03:39	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/25/14 03:39	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/25/14 03:39	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/25/14 03:39	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/25/14 03:39	1
Styrene	<0.10		1.0	0.10	ug/L			10/25/14 03:39	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/25/14 03:39	1
Tetrachloroethene	110		1.0	0.17	ug/L			10/25/14 03:39	1
Toluene	<0.11		0.50	0.11	ug/L			10/25/14 03:39	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/25/14 03:39	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/25/14 03:39	1
Trichloroethene	16		0.50	0.19	ug/L			10/25/14 03:39	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/25/14 03:39	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/25/14 03:39	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/25/14 03:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125		10/25/14 03:39	1
4-Bromofluorobenzene (Surr)	91		75 - 120		10/25/14 03:39	1
Dibromofluoromethane	97		75 - 120		10/25/14 03:39	1
Toluene-d8 (Surr)	89		75 - 120		10/25/14 03:39	1

Client Sample ID: MP-16 (80-84)

Lab Sample ID: 500-86239-10

Date Collected: 10/16/14 14:05

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/25/14 04:06	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/25/14 04:06	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/25/14 04:06	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/25/14 04:06	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/25/14 04:06	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/25/14 04:06	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/25/14 04:06	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/25/14 04:06	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/25/14 04:06	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/25/14 04:06	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/25/14 04:06	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/25/14 04:06	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/25/14 04:06	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MP-16 (80-84)

Lab Sample ID: 500-86239-10

Date Collected: 10/16/14 14:05

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/25/14 04:06	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/25/14 04:06	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/25/14 04:06	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/25/14 04:06	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/25/14 04:06	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/25/14 04:06	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/25/14 04:06	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/25/14 04:06	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/25/14 04:06	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/25/14 04:06	1
Benzene	<0.074		0.50	0.074	ug/L			10/25/14 04:06	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/25/14 04:06	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/25/14 04:06	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/25/14 04:06	1
Bromoform	<0.28		1.0	0.28	ug/L			10/25/14 04:06	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/25/14 04:06	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/25/14 04:06	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/25/14 04:06	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/25/14 04:06	1
Chloroform	<0.20		1.0	0.20	ug/L			10/25/14 04:06	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/25/14 04:06	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/25/14 04:06	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/25/14 04:06	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/25/14 04:06	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/25/14 04:06	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/25/14 04:06	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/25/14 04:06	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/25/14 04:06	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/25/14 04:06	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/25/14 04:06	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/25/14 04:06	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/25/14 04:06	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/25/14 04:06	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/25/14 04:06	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/25/14 04:06	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/25/14 04:06	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/25/14 04:06	1
Styrene	<0.10		1.0	0.10	ug/L			10/25/14 04:06	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/25/14 04:06	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/25/14 04:06	1
Toluene	<0.11		0.50	0.11	ug/L			10/25/14 04:06	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/25/14 04:06	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/25/14 04:06	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/25/14 04:06	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/25/14 04:06	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/25/14 04:06	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/25/14 04:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		75 - 125		10/25/14 04:06	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MP-16 (80-84)

Lab Sample ID: 500-86239-10

Date Collected: 10/16/14 14:05

Matrix: Water

Date Received: 10/17/14 09:15

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		75 - 120		10/25/14 04:06	1
Dibromofluoromethane	91		75 - 120		10/25/14 04:06	1
Toluene-d8 (Surr)	98		75 - 120		10/25/14 04:06	1

Client Sample ID: MW-6D

Lab Sample ID: 500-86239-11

Date Collected: 10/16/14 11:10

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			10/24/14 15:23	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			10/24/14 15:23	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			10/24/14 15:23	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			10/24/14 15:23	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			10/24/14 15:23	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			10/24/14 15:23	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			10/24/14 15:23	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			10/24/14 15:23	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			10/24/14 15:23	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			10/24/14 15:23	2
1,2,4-Trimethylbenzene	13		2.0	0.28	ug/L			10/24/14 15:23	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			10/24/14 15:23	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			10/24/14 15:23	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			10/24/14 15:23	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			10/24/14 15:23	2
1,2-Dichloropropane	2.4		2.0	0.40	ug/L			10/24/14 15:23	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			10/24/14 15:23	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/24/14 15:23	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			10/24/14 15:23	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/24/14 15:23	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			10/24/14 15:23	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			10/24/14 15:23	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			10/24/14 15:23	2
Bromobenzene	<0.50		2.0	0.50	ug/L			10/24/14 15:23	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			10/24/14 15:23	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			10/24/14 15:23	2
Bromoform	<0.56		2.0	0.56	ug/L			10/24/14 15:23	2
Bromomethane	<0.62		2.0	0.62	ug/L			10/24/14 15:23	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			10/24/14 15:23	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			10/24/14 15:23	2
Chloroethane	<0.68		2.0	0.68	ug/L			10/24/14 15:23	2
Chloroform	<0.40		2.0	0.40	ug/L			10/24/14 15:23	2
Chloromethane	<0.36		2.0	0.36	ug/L			10/24/14 15:23	2
cis-1,2-Dichloroethene	2.4		2.0	0.24	ug/L			10/24/14 15:23	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			10/24/14 15:23	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			10/24/14 15:23	2
Dibromomethane	<0.66		2.0	0.66	ug/L			10/24/14 15:23	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			10/24/14 15:23	2
Ethylbenzene	8.0		1.0	0.26	ug/L			10/24/14 15:23	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MW-6D

Lab Sample ID: 500-86239-11

Date Collected: 10/16/14 11:10

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			10/24/14 15:23	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			10/24/14 15:23	2
Isopropylbenzene	24		2.0	0.28	ug/L			10/24/14 15:23	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			10/24/14 15:23	2
Methylene Chloride	76		10	1.4	ug/L			10/24/14 15:23	2
Naphthalene	18		2.0	0.32	ug/L			10/24/14 15:23	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			10/24/14 15:23	2
N-Propylbenzene	7.9		2.0	0.26	ug/L			10/24/14 15:23	2
p-Isopropyltoluene	2.5		2.0	0.34	ug/L			10/24/14 15:23	2
sec-Butylbenzene	2.8		2.0	0.30	ug/L			10/24/14 15:23	2
Styrene	<0.20		2.0	0.20	ug/L			10/24/14 15:23	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			10/24/14 15:23	2
Tetrachloroethene	4.0		2.0	0.34	ug/L			10/24/14 15:23	2
Toluene	26		1.0	0.22	ug/L			10/24/14 15:23	2
trans-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			10/24/14 15:23	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			10/24/14 15:23	2
Trichloroethene	31		1.0	0.38	ug/L			10/24/14 15:23	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			10/24/14 15:23	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/24/14 15:23	2
Xylenes, Total	25		2.0	0.14	ug/L			10/24/14 15:23	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	154	X	75 - 125		10/24/14 15:23	2
4-Bromofluorobenzene (Surr)	81		75 - 120		10/24/14 15:23	2
Dibromofluoromethane	98		75 - 120		10/24/14 15:23	2
Toluene-d8 (Surr)	86		75 - 120		10/24/14 15:23	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	990		10	1.5	ug/L			10/24/14 15:50	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		75 - 125		10/24/14 15:50	20
4-Bromofluorobenzene (Surr)	88		75 - 120		10/24/14 15:50	20
Dibromofluoromethane	111		75 - 120		10/24/14 15:50	20
Toluene-d8 (Surr)	96		75 - 120		10/24/14 15:50	20

Client Sample ID: MW-2S

Lab Sample ID: 500-86239-12

Date Collected: 10/16/14 14:50

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/25/14 04:59	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/25/14 04:59	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/25/14 04:59	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/25/14 04:59	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/25/14 04:59	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/25/14 04:59	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/25/14 04:59	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MW-2S

Lab Sample ID: 500-86239-12

Date Collected: 10/16/14 14:50

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/25/14 04:59	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/25/14 04:59	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/25/14 04:59	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/25/14 04:59	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/25/14 04:59	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/25/14 04:59	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/25/14 04:59	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/25/14 04:59	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/25/14 04:59	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/25/14 04:59	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/25/14 04:59	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/25/14 04:59	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/25/14 04:59	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/25/14 04:59	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/25/14 04:59	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/25/14 04:59	1
Benzene	<0.074		0.50	0.074	ug/L			10/25/14 04:59	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/25/14 04:59	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/25/14 04:59	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/25/14 04:59	1
Bromoform	<0.28		1.0	0.28	ug/L			10/25/14 04:59	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/25/14 04:59	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/25/14 04:59	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/25/14 04:59	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/25/14 04:59	1
Chloroform	<0.20		1.0	0.20	ug/L			10/25/14 04:59	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/25/14 04:59	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/25/14 04:59	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/25/14 04:59	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/25/14 04:59	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/25/14 04:59	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/25/14 04:59	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/25/14 04:59	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/25/14 04:59	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/25/14 04:59	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/25/14 04:59	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/25/14 04:59	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/25/14 04:59	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/25/14 04:59	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/25/14 04:59	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/25/14 04:59	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/25/14 04:59	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/25/14 04:59	1
Styrene	<0.10		1.0	0.10	ug/L			10/25/14 04:59	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/25/14 04:59	1
Tetrachloroethene	1.0		1.0	0.17	ug/L			10/25/14 04:59	1
Toluene	<0.11		0.50	0.11	ug/L			10/25/14 04:59	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/25/14 04:59	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/25/14 04:59	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MW-2S

Lab Sample ID: 500-86239-12

Date Collected: 10/16/14 14:50

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<0.19		0.50	0.19	ug/L			10/25/14 04:59	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/25/14 04:59	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/25/14 04:59	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/25/14 04:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 125					10/25/14 04:59	1
4-Bromofluorobenzene (Surr)	90		75 - 120					10/25/14 04:59	1
Dibromofluoromethane	112		75 - 120					10/25/14 04:59	1
Toluene-d8 (Surr)	89		75 - 120					10/25/14 04:59	1

Client Sample ID: MW-6S

Lab Sample ID: 500-86239-13

Date Collected: 10/16/14 14:05

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/25/14 05:26	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/25/14 05:26	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/25/14 05:26	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/25/14 05:26	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/25/14 05:26	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/25/14 05:26	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/25/14 05:26	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/25/14 05:26	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/25/14 05:26	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/25/14 05:26	1
1,2,4-Trimethylbenzene	0.96	J	1.0	0.14	ug/L			10/25/14 05:26	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/25/14 05:26	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/25/14 05:26	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/25/14 05:26	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/25/14 05:26	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/25/14 05:26	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/25/14 05:26	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/25/14 05:26	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/25/14 05:26	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/25/14 05:26	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/25/14 05:26	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/25/14 05:26	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/25/14 05:26	1
Benzene	2.1		0.50	0.074	ug/L			10/25/14 05:26	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/25/14 05:26	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/25/14 05:26	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/25/14 05:26	1
Bromoform	<0.28		1.0	0.28	ug/L			10/25/14 05:26	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/25/14 05:26	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/25/14 05:26	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/25/14 05:26	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/25/14 05:26	1
Chloroform	<0.20		1.0	0.20	ug/L			10/25/14 05:26	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MW-6S

Lab Sample ID: 500-86239-13

Date Collected: 10/16/14 14:05

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<0.18		1.0	0.18	ug/L			10/25/14 05:26	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/25/14 05:26	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/25/14 05:26	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/25/14 05:26	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/25/14 05:26	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/25/14 05:26	1
Ethylbenzene	3.5		0.50	0.13	ug/L			10/25/14 05:26	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/25/14 05:26	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/25/14 05:26	1
Isopropylbenzene	2.1		1.0	0.14	ug/L			10/25/14 05:26	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/25/14 05:26	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/25/14 05:26	1
Naphthalene	1.9		1.0	0.16	ug/L			10/25/14 05:26	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/25/14 05:26	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/25/14 05:26	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/25/14 05:26	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/25/14 05:26	1
Styrene	<0.10		1.0	0.10	ug/L			10/25/14 05:26	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/25/14 05:26	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/25/14 05:26	1
Toluene	<0.11		0.50	0.11	ug/L			10/25/14 05:26	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/25/14 05:26	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/25/14 05:26	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/25/14 05:26	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/25/14 05:26	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/25/14 05:26	1
Xylenes, Total	1.9		1.0	0.068	ug/L			10/25/14 05:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 125		10/25/14 05:26	1
4-Bromofluorobenzene (Surr)	83		75 - 120		10/25/14 05:26	1
Dibromofluoromethane	97		75 - 120		10/25/14 05:26	1
Toluene-d8 (Surr)	110		75 - 120		10/25/14 05:26	1

Client Sample ID: MW-2D

Lab Sample ID: 500-86239-14

Date Collected: 10/16/14 13:45

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			10/24/14 16:17	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			10/24/14 16:17	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			10/24/14 16:17	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			10/24/14 16:17	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			10/24/14 16:17	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			10/24/14 16:17	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			10/24/14 16:17	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			10/24/14 16:17	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			10/24/14 16:17	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			10/24/14 16:17	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MW-2D

Lab Sample ID: 500-86239-14

Date Collected: 10/16/14 13:45

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			10/24/14 16:17	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			10/24/14 16:17	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			10/24/14 16:17	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			10/24/14 16:17	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			10/24/14 16:17	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			10/24/14 16:17	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			10/24/14 16:17	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/24/14 16:17	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			10/24/14 16:17	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/24/14 16:17	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			10/24/14 16:17	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			10/24/14 16:17	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			10/24/14 16:17	2
Benzene	<0.15		1.0	0.15	ug/L			10/24/14 16:17	2
Bromobenzene	<0.50		2.0	0.50	ug/L			10/24/14 16:17	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			10/24/14 16:17	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			10/24/14 16:17	2
Bromoform	<0.56		2.0	0.56	ug/L			10/24/14 16:17	2
Bromomethane	<0.62		2.0	0.62	ug/L			10/24/14 16:17	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			10/24/14 16:17	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			10/24/14 16:17	2
Chloroethane	<0.68		2.0	0.68	ug/L			10/24/14 16:17	2
Chloroform	<0.40		2.0	0.40	ug/L			10/24/14 16:17	2
Chloromethane	<0.36		2.0	0.36	ug/L			10/24/14 16:17	2
cis-1,2-Dichloroethene	<0.24		2.0	0.24	ug/L			10/24/14 16:17	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			10/24/14 16:17	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			10/24/14 16:17	2
Dibromomethane	<0.66		2.0	0.66	ug/L			10/24/14 16:17	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			10/24/14 16:17	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			10/24/14 16:17	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			10/24/14 16:17	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			10/24/14 16:17	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			10/24/14 16:17	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			10/24/14 16:17	2
Methylene Chloride	<1.4		10	1.4	ug/L			10/24/14 16:17	2
Naphthalene	<0.32		2.0	0.32	ug/L			10/24/14 16:17	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			10/24/14 16:17	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			10/24/14 16:17	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			10/24/14 16:17	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			10/24/14 16:17	2
Styrene	<0.20		2.0	0.20	ug/L			10/24/14 16:17	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			10/24/14 16:17	2
Toluene	<0.22		1.0	0.22	ug/L			10/24/14 16:17	2
trans-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			10/24/14 16:17	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			10/24/14 16:17	2
Trichloroethene	2.1		1.0	0.38	ug/L			10/24/14 16:17	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			10/24/14 16:17	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/24/14 16:17	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			10/24/14 16:17	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MW-2D
Date Collected: 10/16/14 13:45
Date Received: 10/17/14 09:15

Lab Sample ID: 500-86239-14
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 125		10/24/14 16:17	2
4-Bromofluorobenzene (Surr)	78		75 - 120		10/24/14 16:17	2
Dibromofluoromethane	87		75 - 120		10/24/14 16:17	2
Toluene-d8 (Surr)	108		75 - 120		10/24/14 16:17	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	540		20	3.4	ug/L			10/24/14 16:43	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 125		10/24/14 16:43	20
4-Bromofluorobenzene (Surr)	86		75 - 120		10/24/14 16:43	20
Dibromofluoromethane	98		75 - 120		10/24/14 16:43	20
Toluene-d8 (Surr)	94		75 - 120		10/24/14 16:43	20

Client Sample ID: MW-303
Date Collected: 10/16/14 17:08
Date Received: 10/17/14 09:15

Lab Sample ID: 500-86239-15
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/24/14 17:10	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/24/14 17:10	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/24/14 17:10	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 17:10	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/24/14 17:10	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/24/14 17:10	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/24/14 17:10	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/24/14 17:10	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/24/14 17:10	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/24/14 17:10	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 17:10	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/24/14 17:10	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/24/14 17:10	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/24/14 17:10	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 17:10	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/24/14 17:10	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/24/14 17:10	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 17:10	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/24/14 17:10	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 17:10	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/24/14 17:10	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/24/14 17:10	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/24/14 17:10	1
Benzene	<0.074		0.50	0.074	ug/L			10/24/14 17:10	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/24/14 17:10	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/24/14 17:10	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/24/14 17:10	1
Bromoform	<0.28		1.0	0.28	ug/L			10/24/14 17:10	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/24/14 17:10	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/24/14 17:10	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MW-303

Lab Sample ID: 500-86239-15

Date Collected: 10/16/14 17:08

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/24/14 17:10	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/24/14 17:10	1
Chloroform	<0.20		1.0	0.20	ug/L			10/24/14 17:10	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/24/14 17:10	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/24/14 17:10	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/24/14 17:10	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/24/14 17:10	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/24/14 17:10	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/24/14 17:10	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/24/14 17:10	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/24/14 17:10	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/24/14 17:10	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 17:10	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/24/14 17:10	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/24/14 17:10	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/24/14 17:10	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 17:10	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 17:10	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/24/14 17:10	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/24/14 17:10	1
Styrene	<0.10		1.0	0.10	ug/L			10/24/14 17:10	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 17:10	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/24/14 17:10	1
Toluene	<0.11		0.50	0.11	ug/L			10/24/14 17:10	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/14 17:10	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/24/14 17:10	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/24/14 17:10	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/24/14 17:10	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/24/14 17:10	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/24/14 17:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 125		10/24/14 17:10	1
4-Bromofluorobenzene (Surr)	89		75 - 120		10/24/14 17:10	1
Dibromofluoromethane	87		75 - 120		10/24/14 17:10	1
Toluene-d8 (Surr)	101		75 - 120		10/24/14 17:10	1

Client Sample ID: MW-3D

Lab Sample ID: 500-86239-16

Date Collected: 10/16/14 18:17

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			10/24/14 17:37	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			10/24/14 17:37	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			10/24/14 17:37	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			10/24/14 17:37	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			10/24/14 17:37	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			10/24/14 17:37	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			10/24/14 17:37	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MW-3D

Lab Sample ID: 500-86239-16

Date Collected: 10/16/14 18:17

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			10/24/14 17:37	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			10/24/14 17:37	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			10/24/14 17:37	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			10/24/14 17:37	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			10/24/14 17:37	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			10/24/14 17:37	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			10/24/14 17:37	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			10/24/14 17:37	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			10/24/14 17:37	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			10/24/14 17:37	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/24/14 17:37	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			10/24/14 17:37	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/24/14 17:37	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			10/24/14 17:37	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			10/24/14 17:37	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			10/24/14 17:37	2
Benzene	0.55	J	1.0	0.15	ug/L			10/24/14 17:37	2
Bromobenzene	<0.50		2.0	0.50	ug/L			10/24/14 17:37	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			10/24/14 17:37	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			10/24/14 17:37	2
Bromoform	<0.56		2.0	0.56	ug/L			10/24/14 17:37	2
Bromomethane	<0.62		2.0	0.62	ug/L			10/24/14 17:37	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			10/24/14 17:37	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			10/24/14 17:37	2
Chloroethane	<0.68		2.0	0.68	ug/L			10/24/14 17:37	2
Chloroform	<0.40		2.0	0.40	ug/L			10/24/14 17:37	2
Chloromethane	<0.36		2.0	0.36	ug/L			10/24/14 17:37	2
cis-1,2-Dichloroethene	170		2.0	0.24	ug/L			10/24/14 17:37	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			10/24/14 17:37	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			10/24/14 17:37	2
Dibromomethane	<0.66		2.0	0.66	ug/L			10/24/14 17:37	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			10/24/14 17:37	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			10/24/14 17:37	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			10/24/14 17:37	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			10/24/14 17:37	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			10/24/14 17:37	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			10/24/14 17:37	2
Methylene Chloride	<1.4		10	1.4	ug/L			10/24/14 17:37	2
Naphthalene	<0.32		2.0	0.32	ug/L			10/24/14 17:37	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			10/24/14 17:37	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			10/24/14 17:37	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			10/24/14 17:37	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			10/24/14 17:37	2
Styrene	<0.20		2.0	0.20	ug/L			10/24/14 17:37	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			10/24/14 17:37	2
Toluene	<0.22		1.0	0.22	ug/L			10/24/14 17:37	2
trans-1,2-Dichloroethene	9.3		2.0	0.50	ug/L			10/24/14 17:37	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			10/24/14 17:37	2
Trichloroethene	170		1.0	0.38	ug/L			10/24/14 17:37	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MW-3D

Lab Sample ID: 500-86239-16

Date Collected: 10/16/14 18:17

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			10/24/14 17:37	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/24/14 17:37	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			10/24/14 17:37	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 125					10/24/14 17:37	2
4-Bromofluorobenzene (Surr)	90		75 - 120					10/24/14 17:37	2
Dibromofluoromethane	88		75 - 120					10/24/14 17:37	2
Toluene-d8 (Surr)	104		75 - 120					10/24/14 17:37	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1100		20	3.4	ug/L			10/24/14 18:04	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 125					10/24/14 18:04	20
4-Bromofluorobenzene (Surr)	86		75 - 120					10/24/14 18:04	20
Dibromofluoromethane	94		75 - 120					10/24/14 18:04	20
Toluene-d8 (Surr)	93		75 - 120					10/24/14 18:04	20

Client Sample ID: MW-22D

Lab Sample ID: 500-86239-17

Date Collected: 10/16/14 17:50

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/24/14 18:31	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/24/14 18:31	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/24/14 18:31	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 18:31	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/24/14 18:31	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/24/14 18:31	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/24/14 18:31	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/24/14 18:31	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/24/14 18:31	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/24/14 18:31	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 18:31	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/24/14 18:31	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/24/14 18:31	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/24/14 18:31	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 18:31	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/24/14 18:31	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/24/14 18:31	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 18:31	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/24/14 18:31	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 18:31	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/24/14 18:31	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/24/14 18:31	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/24/14 18:31	1
Benzene	<0.074		0.50	0.074	ug/L			10/24/14 18:31	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MW-22D

Lab Sample ID: 500-86239-17

Date Collected: 10/16/14 17:50

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<0.25		1.0	0.25	ug/L			10/24/14 18:31	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/24/14 18:31	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/24/14 18:31	1
Bromoform	<0.28		1.0	0.28	ug/L			10/24/14 18:31	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/24/14 18:31	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/24/14 18:31	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/24/14 18:31	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/24/14 18:31	1
Chloroform	<0.20		1.0	0.20	ug/L			10/24/14 18:31	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/24/14 18:31	1
cis-1,2-Dichloroethene	4.2		1.0	0.12	ug/L			10/24/14 18:31	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/24/14 18:31	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/24/14 18:31	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/24/14 18:31	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/24/14 18:31	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/24/14 18:31	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/24/14 18:31	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/24/14 18:31	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 18:31	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/24/14 18:31	1
Methylene Chloride	6.6		5.0	0.68	ug/L			10/24/14 18:31	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/24/14 18:31	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 18:31	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 18:31	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/24/14 18:31	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/24/14 18:31	1
Styrene	<0.10		1.0	0.10	ug/L			10/24/14 18:31	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 18:31	1
Toluene	<0.11		0.50	0.11	ug/L			10/24/14 18:31	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/14 18:31	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/24/14 18:31	1
Trichloroethene	5.7		0.50	0.19	ug/L			10/24/14 18:31	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/24/14 18:31	1
Vinyl chloride	0.68		0.50	0.10	ug/L			10/24/14 18:31	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/24/14 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 125		10/24/14 18:31	1
4-Bromofluorobenzene (Surr)	93		75 - 120		10/24/14 18:31	1
Dibromofluoromethane	99		75 - 120		10/24/14 18:31	1
Toluene-d8 (Surr)	92		75 - 120		10/24/14 18:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	250		10	1.7	ug/L			10/24/14 18:58	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 125		10/24/14 18:58	10
4-Bromofluorobenzene (Surr)	91		75 - 120		10/24/14 18:58	10
Dibromofluoromethane	102		75 - 120		10/24/14 18:58	10

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MW-22D

Lab Sample ID: 500-86239-17

Date Collected: 10/16/14 17:50

Matrix: Water

Date Received: 10/17/14 09:15

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	83		75 - 120		10/24/14 18:58	10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.063		0.38	0.063	ug/L		10/22/14 09:27	10/28/14 09:39	1
PCB-1221	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 09:39	1
PCB-1232	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 09:39	1
PCB-1242	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 09:39	1
PCB-1248	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 09:39	1
PCB-1254	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 09:39	1
PCB-1260	<0.066		0.38	0.066	ug/L		10/22/14 09:27	10/28/14 09:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	89		50 - 120	10/22/14 09:27	10/28/14 09:39	1
DCB Decachlorobiphenyl	92		29 - 126	10/22/14 09:27	10/28/14 09:39	1

Client Sample ID: DUP-1

Lab Sample ID: 500-86239-18

Date Collected: 10/16/14 00:00

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			10/24/14 19:24	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			10/24/14 19:24	2
1,1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			10/24/14 19:24	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			10/24/14 19:24	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			10/24/14 19:24	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			10/24/14 19:24	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			10/24/14 19:24	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			10/24/14 19:24	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			10/24/14 19:24	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			10/24/14 19:24	2
1,2,4-Trimethylbenzene	13		2.0	0.28	ug/L			10/24/14 19:24	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			10/24/14 19:24	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			10/24/14 19:24	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			10/24/14 19:24	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			10/24/14 19:24	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			10/24/14 19:24	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			10/24/14 19:24	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/24/14 19:24	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			10/24/14 19:24	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/24/14 19:24	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			10/24/14 19:24	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			10/24/14 19:24	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			10/24/14 19:24	2
Bromobenzene	<0.50		2.0	0.50	ug/L			10/24/14 19:24	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			10/24/14 19:24	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			10/24/14 19:24	2
Bromoform	<0.56		2.0	0.56	ug/L			10/24/14 19:24	2
Bromomethane	<0.62		2.0	0.62	ug/L			10/24/14 19:24	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: DUP-1

Lab Sample ID: 500-86239-18

Date Collected: 10/16/14 00:00

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			10/24/14 19:24	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			10/24/14 19:24	2
Chloroethane	<0.68		2.0	0.68	ug/L			10/24/14 19:24	2
Chloroform	<0.40		2.0	0.40	ug/L			10/24/14 19:24	2
Chloromethane	<0.36		2.0	0.36	ug/L			10/24/14 19:24	2
cis-1,2-Dichloroethene	2.2		2.0	0.24	ug/L			10/24/14 19:24	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			10/24/14 19:24	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			10/24/14 19:24	2
Dibromomethane	<0.66		2.0	0.66	ug/L			10/24/14 19:24	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			10/24/14 19:24	2
Ethylbenzene	7.2		1.0	0.26	ug/L			10/24/14 19:24	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			10/24/14 19:24	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			10/24/14 19:24	2
Isopropylbenzene	20		2.0	0.28	ug/L			10/24/14 19:24	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			10/24/14 19:24	2
Methylene Chloride	61		10	1.4	ug/L			10/24/14 19:24	2
Naphthalene	15		2.0	0.32	ug/L			10/24/14 19:24	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			10/24/14 19:24	2
N-Propylbenzene	7.5		2.0	0.26	ug/L			10/24/14 19:24	2
p-Isopropyltoluene	2.2		2.0	0.34	ug/L			10/24/14 19:24	2
sec-Butylbenzene	2.3		2.0	0.30	ug/L			10/24/14 19:24	2
Styrene	<0.20		2.0	0.20	ug/L			10/24/14 19:24	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			10/24/14 19:24	2
Tetrachloroethene	3.1		2.0	0.34	ug/L			10/24/14 19:24	2
Toluene	27		1.0	0.22	ug/L			10/24/14 19:24	2
trans-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			10/24/14 19:24	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			10/24/14 19:24	2
Trichloroethene	28		1.0	0.38	ug/L			10/24/14 19:24	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			10/24/14 19:24	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/24/14 19:24	2
Xylenes, Total	24		2.0	0.14	ug/L			10/24/14 19:24	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130	X	75 - 125		10/24/14 19:24	2
4-Bromofluorobenzene (Surr)	89		75 - 120		10/24/14 19:24	2
Dibromofluoromethane	99		75 - 120		10/24/14 19:24	2
Toluene-d8 (Surr)	99		75 - 120		10/24/14 19:24	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	980		10	1.5	ug/L			10/24/14 19:52	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 125		10/24/14 19:52	20
4-Bromofluorobenzene (Surr)	78		75 - 120		10/24/14 19:52	20
Dibromofluoromethane	96		75 - 120		10/24/14 19:52	20
Toluene-d8 (Surr)	97		75 - 120		10/24/14 19:52	20

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: DUP-2

Lab Sample ID: 500-86239-19

Date Collected: 10/16/14 00:00

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/24/14 20:18	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/24/14 20:18	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/24/14 20:18	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 20:18	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/24/14 20:18	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/24/14 20:18	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/24/14 20:18	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/24/14 20:18	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/24/14 20:18	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/24/14 20:18	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 20:18	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/24/14 20:18	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/24/14 20:18	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/24/14 20:18	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 20:18	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/24/14 20:18	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/24/14 20:18	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 20:18	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/24/14 20:18	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 20:18	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/24/14 20:18	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/24/14 20:18	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/24/14 20:18	1
Benzene	<0.074		0.50	0.074	ug/L			10/24/14 20:18	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/24/14 20:18	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/24/14 20:18	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/24/14 20:18	1
Bromoform	<0.28		1.0	0.28	ug/L			10/24/14 20:18	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/24/14 20:18	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/24/14 20:18	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/24/14 20:18	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/24/14 20:18	1
Chloroform	<0.20		1.0	0.20	ug/L			10/24/14 20:18	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/24/14 20:18	1
cis-1,2-Dichloroethene	4.9		1.0	0.12	ug/L			10/24/14 20:18	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/24/14 20:18	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/24/14 20:18	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/24/14 20:18	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/24/14 20:18	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/24/14 20:18	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/24/14 20:18	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/24/14 20:18	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 20:18	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/24/14 20:18	1
Methylene Chloride	7.1		5.0	0.68	ug/L			10/24/14 20:18	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/24/14 20:18	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 20:18	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 20:18	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/24/14 20:18	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: DUP-2

Lab Sample ID: 500-86239-19

Date Collected: 10/16/14 00:00

Matrix: Water

Date Received: 10/17/14 09:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/24/14 20:18	1
Styrene	<0.10		1.0	0.10	ug/L			10/24/14 20:18	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 20:18	1
Toluene	<0.11		0.50	0.11	ug/L			10/24/14 20:18	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/14 20:18	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/24/14 20:18	1
Trichloroethene	6.9		0.50	0.19	ug/L			10/24/14 20:18	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/24/14 20:18	1
Vinyl chloride	0.66		0.50	0.10	ug/L			10/24/14 20:18	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/24/14 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125		10/24/14 20:18	1
4-Bromofluorobenzene (Surr)	93		75 - 120		10/24/14 20:18	1
Dibromofluoromethane	101		75 - 120		10/24/14 20:18	1
Toluene-d8 (Surr)	80		75 - 120		10/24/14 20:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	270		10	1.7	ug/L			10/24/14 20:45	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 125		10/24/14 20:45	10
4-Bromofluorobenzene (Surr)	91		75 - 120		10/24/14 20:45	10
Dibromofluoromethane	99		75 - 120		10/24/14 20:45	10
Toluene-d8 (Surr)	96		75 - 120		10/24/14 20:45	10

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery exceeds the control limits
F2	MS/MSD RPD exceeds control limits

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
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

QC Association Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

GC/MS VOA

Analysis Batch: 260421

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86239-2	MP-15 (177-187)	Total/NA	Water	8260B	
500-86239-3	MP-15 (142-146)	Total/NA	Water	8260B	
500-86239-3 - DL	MP-15 (142-146)	Total/NA	Water	8260B	
LCS 500-260421/5	Lab Control Sample	Total/NA	Water	8260B	
MB 500-260421/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 260628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86239-1	Trip Blank	Total/NA	Water	8260B	
500-86239-4	MP-15 (120-125)	Total/NA	Water	8260B	
500-86239-4 - DL	MP-15 (120-125)	Total/NA	Water	8260B	
500-86239-5	MP-15 (100-105)	Total/NA	Water	8260B	
500-86239-5 - DL	MP-15 (100-105)	Total/NA	Water	8260B	
500-86239-6	MP-15 (88-92)	Total/NA	Water	8260B	
500-86239-7	MP-16 (175-179)	Total/NA	Water	8260B	
500-86239-7 MS	MP-16 (175-179)	Total/NA	Water	8260B	
500-86239-7 MSD	MP-16 (175-179)	Total/NA	Water	8260B	
LCS 500-260628/5	Lab Control Sample	Total/NA	Water	8260B	
MB 500-260628/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 260872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86239-11	MW-6D	Total/NA	Water	8260B	
500-86239-11 - DL	MW-6D	Total/NA	Water	8260B	
500-86239-14	MW-2D	Total/NA	Water	8260B	
500-86239-14 - DL	MW-2D	Total/NA	Water	8260B	
500-86239-15	MW-303	Total/NA	Water	8260B	
500-86239-15 MS	MW-303	Total/NA	Water	8260B	
500-86239-15 MSD	MW-303	Total/NA	Water	8260B	
500-86239-16	MW-3D	Total/NA	Water	8260B	
500-86239-16 - DL	MW-3D	Total/NA	Water	8260B	
500-86239-17	MW-22D	Total/NA	Water	8260B	
500-86239-17 - DL	MW-22D	Total/NA	Water	8260B	
500-86239-18	DUP-1	Total/NA	Water	8260B	
500-86239-18 - DL	DUP-1	Total/NA	Water	8260B	
500-86239-19	DUP-2	Total/NA	Water	8260B	
500-86239-19 - DL	DUP-2	Total/NA	Water	8260B	
LCS 500-260872/9	Lab Control Sample	Total/NA	Water	8260B	
MB 500-260872/8	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 260879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86239-8	MP-16 (140-144)	Total/NA	Water	8260B	
500-86239-9	MP-16 (106-116)	Total/NA	Water	8260B	
500-86239-10	MP-16 (80-84)	Total/NA	Water	8260B	
500-86239-12	MW-2S	Total/NA	Water	8260B	
500-86239-13	MW-6S	Total/NA	Water	8260B	
LCS 500-260879/27	Lab Control Sample	Total/NA	Water	8260B	
MB 500-260879/7	Method Blank	Total/NA	Water	8260B	

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

GC Semi VOA

Prep Batch: 260418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86239-17	MW-22D	Dissolved	Water	3510C	
LCS 500-260418/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-260418/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 500-260418/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 261299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86239-17	MW-22D	Dissolved	Water	8082	260418
LCS 500-260418/2-A	Lab Control Sample	Total/NA	Water	8082	260418
LCSD 500-260418/3-A	Lab Control Sample Dup	Total/NA	Water	8082	260418
MB 500-260418/1-A	Method Blank	Total/NA	Water	8082	260418

Surrogate Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-125)	BFB (75-120)	DBFM (75-120)	TOL (75-120)
500-86239-1	Trip Blank	89	98	93	89
500-86239-2	MP-15 (177-187)	86	102	91	94
500-86239-3	MP-15 (142-146)	92	103	91	96
500-86239-3 - DL	MP-15 (142-146)	91	104	90	90
500-86239-4	MP-15 (120-125)	90	91	94	86
500-86239-4 - DL	MP-15 (120-125)	89	96	87	87
500-86239-5	MP-15 (100-105)	87	98	92	96
500-86239-5 - DL	MP-15 (100-105)	90	92	95	97
500-86239-6	MP-15 (88-92)	100	95	102	92
500-86239-7	MP-16 (175-179)	91	95	99	95
500-86239-7 MS	MP-16 (175-179)	101	87	103	107
500-86239-7 MSD	MP-16 (175-179)	92	100	99	93
500-86239-8	MP-16 (140-144)	96	80	100	91
500-86239-9	MP-16 (106-116)	98	91	97	89
500-86239-10	MP-16 (80-84)	93	88	91	98
500-86239-11	MW-6D	154 X	81	98	86
500-86239-11 - DL	MW-6D	116	88	111	96
500-86239-12	MW-2S	108	90	112	89
500-86239-13	MW-6S	99	83	97	110
500-86239-14	MW-2D	95	78	87	108
500-86239-14 - DL	MW-2D	104	86	98	94
500-86239-15	MW-303	87	89	87	101
500-86239-15 MS	MW-303	97	81	106	89
500-86239-15 MSD	MW-303	90	94	99	94
500-86239-16	MW-3D	95	90	88	104
500-86239-16 - DL	MW-3D	101	86	94	93
500-86239-17	MW-22D	88	93	99	92
500-86239-17 - DL	MW-22D	96	91	102	83
500-86239-18	DUP-1	130 X	89	99	99
500-86239-18 - DL	DUP-1	107	78	96	97
500-86239-19	DUP-2	98	93	101	80
500-86239-19 - DL	DUP-2	96	91	99	96
LCS 500-260421/5	Lab Control Sample	86	94	91	94
LCS 500-260628/5	Lab Control Sample	89	88	101	90
LCS 500-260872/9	Lab Control Sample	93	83	101	81
LCS 500-260879/27	Lab Control Sample	91	89	100	97
MB 500-260421/7	Method Blank	90	104	91	100
MB 500-260628/7	Method Blank	88	89	93	92
MB 500-260872/8	Method Blank	107	80	107	93
MB 500-260879/7	Method Blank	104	89	105	97

Surrogate Legend

- 12DCE = 1,2-Dichloroethane-d4 (Surr)
- BFB = 4-Bromofluorobenzene (Surr)
- DBFM = Dibromofluoromethane
- TOL = Toluene-d8 (Surr)

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (50-120)	DCB1 (29-126)
LCS 500-260418/2-A	Lab Control Sample	84	98
LCS 500-260418/3-A	Lab Control Sample Dup	73	93
MB 500-260418/1-A	Method Blank	63	95

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Dissolved

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX1 (50-120)	DCB1 (29-126)
500-86239-17	MW-22D	89	92

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Lab Sample ID: MB 500-260421/7

Matrix: Water

Analysis Batch: 260421

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/22/14 14:02	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/22/14 14:02	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/22/14 14:02	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/22/14 14:02	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/22/14 14:02	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/22/14 14:02	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/22/14 14:02	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/22/14 14:02	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/22/14 14:02	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/22/14 14:02	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 14:02	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/22/14 14:02	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/22/14 14:02	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/22/14 14:02	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/22/14 14:02	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/22/14 14:02	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/22/14 14:02	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/22/14 14:02	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/22/14 14:02	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/22/14 14:02	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/22/14 14:02	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/22/14 14:02	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/22/14 14:02	1
Benzene	<0.074		0.50	0.074	ug/L			10/22/14 14:02	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/22/14 14:02	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/22/14 14:02	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/22/14 14:02	1
Bromoform	<0.28		1.0	0.28	ug/L			10/22/14 14:02	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/22/14 14:02	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/22/14 14:02	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/22/14 14:02	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/22/14 14:02	1
Chloroform	<0.20		1.0	0.20	ug/L			10/22/14 14:02	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/22/14 14:02	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/22/14 14:02	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/22/14 14:02	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/22/14 14:02	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/22/14 14:02	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/22/14 14:02	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/22/14 14:02	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/22/14 14:02	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/22/14 14:02	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 14:02	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/22/14 14:02	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/22/14 14:02	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/22/14 14:02	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/22/14 14:02	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/22/14 14:02	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Lab Sample ID: MB 500-260421/7

Matrix: Water

Analysis Batch: 260421

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/22/14 14:02	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/22/14 14:02	1
Styrene	<0.10		1.0	0.10	ug/L			10/22/14 14:02	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/22/14 14:02	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/22/14 14:02	1
Toluene	<0.11		0.50	0.11	ug/L			10/22/14 14:02	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/22/14 14:02	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/22/14 14:02	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/22/14 14:02	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/22/14 14:02	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/22/14 14:02	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/22/14 14:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		75 - 125		10/22/14 14:02	1
4-Bromofluorobenzene (Surr)	104		75 - 120		10/22/14 14:02	1
Dibromofluoromethane	91		75 - 120		10/22/14 14:02	1
Toluene-d8 (Surr)	100		75 - 120		10/22/14 14:02	1

Lab Sample ID: LCS 500-260421/5

Matrix: Water

Analysis Batch: 260421

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	50.5		ug/L		101	75 - 122
1,1,1-Trichloroethane	50.0	40.3		ug/L		81	72 - 130
1,1,2,2-Tetrachloroethane	50.0	52.6		ug/L		105	72 - 130
1,1,2-Trichloroethane	50.0	50.8		ug/L		102	75 - 120
1,1-Dichloroethane	50.0	47.2		ug/L		94	75 - 120
1,1-Dichloroethene	50.0	42.9		ug/L		86	69 - 120
1,1-Dichloropropene	50.0	45.1		ug/L		90	75 - 130
1,2,3-Trichlorobenzene	50.0	48.7		ug/L		97	69 - 131
1,2,3-Trichloropropane	50.0	52.2		ug/L		104	65 - 132
1,2,4-Trichlorobenzene	50.0	50.0		ug/L		100	73 - 130
1,2,4-Trimethylbenzene	50.0	48.9		ug/L		98	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	48.9		ug/L		98	62 - 130
1,2-Dibromoethane	50.0	52.8		ug/L		106	78 - 122
1,2-Dichlorobenzene	50.0	48.8		ug/L		98	75 - 120
1,2-Dichloroethane	50.0	43.7		ug/L		87	69 - 130
1,2-Dichloropropane	50.0	48.9		ug/L		98	75 - 120
1,3,5-Trimethylbenzene	50.0	48.9		ug/L		98	75 - 121
1,3-Dichlorobenzene	50.0	47.9		ug/L		96	75 - 120
1,3-Dichloropropane	50.0	53.5		ug/L		107	77 - 124
1,4-Dichlorobenzene	50.0	46.6		ug/L		93	75 - 120
2,2-Dichloropropane	50.0	48.0		ug/L		96	65 - 132
2-Chlorotoluene	50.0	47.5		ug/L		95	75 - 120
4-Chlorotoluene	50.0	46.0		ug/L		92	75 - 120
Benzene	50.0	48.2		ug/L		96	75 - 120

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Lab Sample ID: LCS 500-260421/5

Matrix: Water

Analysis Batch: 260421

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	52.0		ug/L		104	75 - 120
Bromochloromethane	50.0	47.3		ug/L		95	76 - 120
Bromodichloromethane	50.0	48.9		ug/L		98	77 - 121
Bromoform	50.0	52.6		ug/L		105	68 - 126
Bromomethane	50.0	34.2		ug/L		68	45 - 169
Carbon tetrachloride	50.0	41.5		ug/L		83	70 - 130
Chlorobenzene	50.0	49.6		ug/L		99	75 - 120
Chloroethane	50.0	40.8		ug/L		82	58 - 147
Chloroform	50.0	47.1		ug/L		94	76 - 120
Chloromethane	50.0	40.1		ug/L		80	63 - 133
cis-1,2-Dichloroethene	50.0	46.9		ug/L		94	75 - 120
cis-1,3-Dichloropropene	50.0	50.5		ug/L		101	78 - 130
Dibromochloromethane	50.0	45.5		ug/L		91	71 - 126
Dibromomethane	50.0	46.7		ug/L		93	75 - 120
Dichlorodifluoromethane	50.0	38.7		ug/L		77	41 - 146
Ethylbenzene	50.0	48.5		ug/L		97	75 - 120
Hexachlorobutadiene	50.0	40.0		ug/L		80	71 - 131
Isopropylbenzene	50.0	52.8		ug/L		106	75 - 121
Methyl tert-butyl ether	50.0	46.6		ug/L		93	75 - 130
Methylene Chloride	50.0	49.0		ug/L		98	73 - 130
Naphthalene	50.0	62.3		ug/L		125	69 - 135
n-Butylbenzene	50.0	46.1		ug/L		92	75 - 121
N-Propylbenzene	50.0	48.3		ug/L		97	75 - 120
p-Isopropyltoluene	50.0	49.3		ug/L		99	75 - 121
sec-Butylbenzene	50.0	49.6		ug/L		99	75 - 120
Styrene	50.0	53.1		ug/L		106	75 - 120
tert-Butylbenzene	50.0	49.6		ug/L		99	75 - 123
Tetrachloroethene	50.0	42.0		ug/L		84	75 - 120
Toluene	50.0	46.3		ug/L		93	75 - 120
trans-1,2-Dichloroethene	50.0	44.2		ug/L		88	77 - 120
trans-1,3-Dichloropropene	50.0	50.6		ug/L		101	74 - 130
Trichloroethene	50.0	46.5		ug/L		93	75 - 120
Trichlorofluoromethane	50.0	44.2		ug/L		88	71 - 130
Vinyl chloride	50.0	45.8		ug/L		92	72 - 123
Xylenes, Total	100	95.2		ug/L		95	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	86		75 - 125
4-Bromofluorobenzene (Surr)	94		75 - 120
Dibromofluoromethane	91		75 - 120
Toluene-d8 (Surr)	94		75 - 120

Lab Sample ID: MB 500-260628/7

Matrix: Water

Analysis Batch: 260628

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/23/14 14:05	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Lab Sample ID: MB 500-260628/7

Matrix: Water

Analysis Batch: 260628

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/23/14 14:05	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/23/14 14:05	1
1,1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/23/14 14:05	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/23/14 14:05	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/23/14 14:05	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/23/14 14:05	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/23/14 14:05	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/23/14 14:05	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/23/14 14:05	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/23/14 14:05	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/23/14 14:05	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/23/14 14:05	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/23/14 14:05	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/23/14 14:05	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/23/14 14:05	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/23/14 14:05	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/23/14 14:05	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/23/14 14:05	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/23/14 14:05	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/23/14 14:05	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/23/14 14:05	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/23/14 14:05	1
Benzene	<0.074		0.50	0.074	ug/L			10/23/14 14:05	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/23/14 14:05	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/23/14 14:05	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/23/14 14:05	1
Bromoform	<0.28		1.0	0.28	ug/L			10/23/14 14:05	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/23/14 14:05	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/23/14 14:05	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/23/14 14:05	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/23/14 14:05	1
Chloroform	<0.20		1.0	0.20	ug/L			10/23/14 14:05	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/23/14 14:05	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/23/14 14:05	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/23/14 14:05	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/23/14 14:05	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/23/14 14:05	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/23/14 14:05	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/23/14 14:05	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/23/14 14:05	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/23/14 14:05	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/23/14 14:05	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/23/14 14:05	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/23/14 14:05	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/23/14 14:05	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/23/14 14:05	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/23/14 14:05	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/23/14 14:05	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Lab Sample ID: MB 500-260628/7

Matrix: Water

Analysis Batch: 260628

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/23/14 14:05	1
Styrene	<0.10		1.0	0.10	ug/L			10/23/14 14:05	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/23/14 14:05	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/23/14 14:05	1
Toluene	<0.11		0.50	0.11	ug/L			10/23/14 14:05	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/23/14 14:05	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/23/14 14:05	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/23/14 14:05	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/23/14 14:05	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/23/14 14:05	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/23/14 14:05	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	88		75 - 125		10/23/14 14:05	1
4-Bromofluorobenzene (Surr)	89		75 - 120		10/23/14 14:05	1
Dibromofluoromethane	93		75 - 120		10/23/14 14:05	1
Toluene-d8 (Surr)	92		75 - 120		10/23/14 14:05	1

Lab Sample ID: LCS 500-260628/5

Matrix: Water

Analysis Batch: 260628

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	43.9		ug/L		88	72 - 130
1,1,1,2-Tetrachloroethane	50.0	50.2		ug/L		100	72 - 130
1,1,2-Trichloroethane	50.0	49.3		ug/L		99	75 - 120
1,1-Dichloroethane	50.0	46.0		ug/L		92	75 - 120
1,1-Dichloroethene	50.0	44.5		ug/L		89	69 - 120
1,1-Dichloropropene	50.0	44.7		ug/L		89	75 - 130
1,2,3-Trichlorobenzene	50.0	52.4		ug/L		105	69 - 131
1,2,3-Trichloropropane	50.0	47.0		ug/L		94	65 - 132
1,2,4-Trichlorobenzene	50.0	51.0		ug/L		102	73 - 130
1,2,4-Trimethylbenzene	50.0	50.3		ug/L		101	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	51.6		ug/L		103	62 - 130
1,2-Dibromoethane	50.0	51.5		ug/L		103	78 - 122
1,2-Dichlorobenzene	50.0	49.4		ug/L		99	75 - 120
1,2-Dichloroethane	50.0	44.6		ug/L		89	69 - 130
1,2-Dichloropropane	50.0	49.0		ug/L		98	75 - 120
1,3,5-Trimethylbenzene	50.0	50.7		ug/L		101	75 - 121
1,3-Dichlorobenzene	50.0	49.2		ug/L		98	75 - 120
1,3-Dichloropropane	50.0	46.3		ug/L		93	77 - 124
1,4-Dichlorobenzene	50.0	47.6		ug/L		95	75 - 120
2,2-Dichloropropane	50.0	42.8		ug/L		86	65 - 132
2-Chlorotoluene	50.0	47.1		ug/L		94	75 - 120
4-Chlorotoluene	50.0	46.1		ug/L		92	75 - 120
Benzene	50.0	46.8		ug/L		94	75 - 120
Bromobenzene	50.0	53.5		ug/L		107	75 - 120

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Lab Sample ID: LCS 500-260628/5

Matrix: Water

Analysis Batch: 260628

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	51.1		ug/L		102	76 - 120
Bromodichloromethane	50.0	50.0		ug/L		100	77 - 121
Bromoform	50.0	56.2		ug/L		112	68 - 126
Bromomethane	50.0	38.3		ug/L		77	45 - 169
Carbon tetrachloride	50.0	46.5		ug/L		93	70 - 130
Chlorobenzene	50.0	49.8		ug/L		100	75 - 120
Chloroethane	50.0	40.7		ug/L		81	58 - 147
Chloroform	50.0	45.8		ug/L		92	76 - 120
Chloromethane	50.0	43.5		ug/L		87	63 - 133
cis-1,2-Dichloroethene	50.0	47.4		ug/L		95	75 - 120
cis-1,3-Dichloropropene	50.0	47.8		ug/L		96	78 - 130
Dibromochloromethane	50.0	48.2		ug/L		96	71 - 126
Dibromomethane	50.0	47.5		ug/L		95	75 - 120
Dichlorodifluoromethane	50.0	39.1		ug/L		78	41 - 146
Ethylbenzene	50.0	49.3		ug/L		99	75 - 120
Hexachlorobutadiene	50.0	50.3		ug/L		101	71 - 131
Isopropylbenzene	50.0	51.2		ug/L		102	75 - 121
Methyl tert-butyl ether	50.0	44.1		ug/L		88	75 - 130
Methylene Chloride	50.0	46.5		ug/L		93	73 - 130
Naphthalene	50.0	60.1		ug/L		120	69 - 135
n-Butylbenzene	50.0	46.7		ug/L		93	75 - 121
N-Propylbenzene	50.0	47.4		ug/L		95	75 - 120
p-Isopropyltoluene	50.0	51.9		ug/L		104	75 - 121
sec-Butylbenzene	50.0	51.8		ug/L		104	75 - 120
Styrene	50.0	52.8		ug/L		106	75 - 120
tert-Butylbenzene	50.0	51.6		ug/L		103	75 - 123
Tetrachloroethene	50.0	46.7		ug/L		93	75 - 120
Toluene	50.0	46.1		ug/L		92	75 - 120
trans-1,2-Dichloroethene	50.0	46.3		ug/L		93	77 - 120
trans-1,3-Dichloropropene	50.0	47.6		ug/L		95	74 - 130
Trichloroethene	50.0	53.2		ug/L		106	75 - 120
Trichlorofluoromethane	50.0	44.2		ug/L		88	71 - 130
Vinyl chloride	50.0	44.7		ug/L		89	72 - 123
Xylenes, Total	100	90.7		ug/L		91	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	89		75 - 125
4-Bromofluorobenzene (Surr)	88		75 - 120
Dibromofluoromethane	101		75 - 120
Toluene-d8 (Surr)	90		75 - 120

Lab Sample ID: 500-86239-7 MS

Matrix: Water

Analysis Batch: 260628

Client Sample ID: MP-16 (175-179)

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<0.25		50.0	52.2		ug/L		104	75 - 122
1,1,1-Trichloroethane	<0.20		50.0	47.7		ug/L		95	72 - 130

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Lab Sample ID: 500-86239-7 MS

Client Sample ID: MP-16 (175-179)

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 260628

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,1,2,2-Tetrachloroethane	<0.23		50.0	50.0		ug/L		100	72 - 130
1,1,2-Trichloroethane	<0.28		50.0	58.2		ug/L		116	75 - 120
1,1-Dichloroethane	<0.19		50.0	57.6		ug/L		115	75 - 120
1,1-Dichloroethene	<0.31		50.0	55.4		ug/L		111	69 - 120
1,1-Dichloropropene	<0.34		50.0	56.1		ug/L		112	75 - 130
1,2,3-Trichlorobenzene	<0.24		50.0	46.0		ug/L		92	69 - 131
1,2,3-Trichloropropane	<0.45		50.0	49.2		ug/L		98	65 - 132
1,2,4-Trichlorobenzene	<0.31		50.0	44.4		ug/L		89	73 - 130
1,2,4-Trimethylbenzene	<0.14		50.0	52.8		ug/L		106	75 - 121
1,2-Dibromo-3-Chloropropane	<0.87		50.0	57.4		ug/L		115	62 - 130
1,2-Dibromoethane	<0.36		50.0	59.8		ug/L		120	78 - 122
1,2-Dichlorobenzene	<0.27		50.0	49.5		ug/L		99	75 - 120
1,2-Dichloroethane	<0.28		50.0	53.3		ug/L		107	69 - 130
1,2-Dichloropropane	<0.20		50.0	51.8		ug/L		104	75 - 120
1,3,5-Trimethylbenzene	<0.18		50.0	53.7		ug/L		107	75 - 121
1,3-Dichlorobenzene	<0.15		50.0	48.4		ug/L		97	75 - 120
1,3-Dichloropropane	<0.13		50.0	57.8		ug/L		116	77 - 124
1,4-Dichlorobenzene	<0.15		50.0	47.4		ug/L		95	75 - 120
2,2-Dichloropropane	<0.32		50.0	55.6		ug/L		111	65 - 132
2-Chlorotoluene	<0.21		50.0	48.2		ug/L		96	75 - 120
4-Chlorotoluene	<0.20		50.0	49.6		ug/L		99	75 - 120
Benzene	<0.074		50.0	57.6		ug/L		115	75 - 120
Bromobenzene	<0.25		50.0	51.1		ug/L		102	75 - 120
Bromochloromethane	<0.40		50.0	59.4		ug/L		119	76 - 120
Bromodichloromethane	<0.17		50.0	57.8		ug/L		116	77 - 121
Bromoform	<0.28		50.0	56.7		ug/L		113	68 - 126
Bromomethane	<0.31		50.0	44.2		ug/L		88	45 - 169
Carbon tetrachloride	<0.26		50.0	54.8		ug/L		110	70 - 130
Chlorobenzene	<0.14		50.0	49.8		ug/L		100	75 - 120
Chloroethane	<0.34		50.0	53.9		ug/L		108	58 - 147
Chloroform	<0.20		50.0	55.1		ug/L		110	76 - 120
Chloromethane	<0.18		50.0	53.8		ug/L		108	63 - 133
cis-1,2-Dichloroethene	<0.12		50.0	56.9		ug/L		114	75 - 120
cis-1,3-Dichloropropene	<0.18		50.0	52.8		ug/L		106	78 - 130
Dibromochloromethane	<0.32		50.0	53.3		ug/L		107	71 - 126
Dibromomethane	<0.33		50.0	50.8		ug/L		102	75 - 120
Dichlorodifluoromethane	<0.20		50.0	57.1		ug/L		114	41 - 146
Ethylbenzene	<0.13		50.0	50.0		ug/L		100	75 - 120
Hexachlorobutadiene	<0.26		50.0	48.0		ug/L		96	71 - 131
Isopropylbenzene	<0.14		50.0	49.5		ug/L		99	75 - 121
Methyl tert-butyl ether	<0.24		50.0	56.4		ug/L		113	75 - 130
Methylene Chloride	<0.68		50.0	60.2		ug/L		120	73 - 130
Naphthalene	<0.16		50.0	58.0		ug/L		116	69 - 135
n-Butylbenzene	<0.13		50.0	52.3		ug/L		105	75 - 121
N-Propylbenzene	<0.13		50.0	48.0		ug/L		96	75 - 120
p-Isopropyltoluene	<0.17		50.0	54.6		ug/L		109	75 - 121
sec-Butylbenzene	<0.15		50.0	56.5		ug/L		113	75 - 120
Styrene	<0.10		50.0	53.0		ug/L		106	75 - 120

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Lab Sample ID: 500-86239-7 MS

Matrix: Water

Analysis Batch: 260628

Client Sample ID: MP-16 (175-179)

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
tert-Butylbenzene	<0.14		50.0	54.5		ug/L		109	75 - 123
Tetrachloroethene	4.8		50.0	58.6		ug/L		108	75 - 120
Toluene	<0.11		50.0	57.2		ug/L		114	75 - 120
trans-1,2-Dichloroethene	<0.25		50.0	55.9		ug/L		112	77 - 120
trans-1,3-Dichloropropene	<0.21		50.0	58.4		ug/L		117	74 - 130
Trichloroethene	0.98		50.0	60.4		ug/L		119	75 - 120
Trichlorofluoromethane	<0.19		50.0	58.2		ug/L		116	71 - 130
Vinyl chloride	<0.10		50.0	60.7		ug/L		121	72 - 123
Xylenes, Total	<0.068		100	91.5		ug/L		91	75 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		75 - 125
4-Bromofluorobenzene (Surr)	87		75 - 120
Dibromofluoromethane	103		75 - 120
Toluene-d8 (Surr)	107		75 - 120

Lab Sample ID: 500-86239-7 MSD

Matrix: Water

Analysis Batch: 260628

Client Sample ID: MP-16 (175-179)

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier					Limit	
1,1,1,2-Tetrachloroethane	<0.25		50.0	53.5		ug/L		107	75 - 122	2	20
1,1,1-Trichloroethane	<0.20		50.0	46.9		ug/L		94	72 - 130	2	20
1,1,1,2,2-Tetrachloroethane	<0.23		50.0	58.5		ug/L		117	72 - 130	16	20
1,1,2-Trichloroethane	<0.28		50.0	46.8	F2	ug/L		94	75 - 120	22	20
1,1-Dichloroethane	<0.19		50.0	52.6		ug/L		105	75 - 120	9	20
1,1-Dichloroethene	<0.31		50.0	48.7		ug/L		97	69 - 120	13	20
1,1-Dichloropropene	<0.34		50.0	48.3		ug/L		97	75 - 130	15	20
1,2,3-Trichlorobenzene	<0.24		50.0	50.9		ug/L		102	69 - 131	10	20
1,2,3-Trichloropropane	<0.45		50.0	57.8		ug/L		116	65 - 132	16	20
1,2,4-Trichlorobenzene	<0.31		50.0	49.2		ug/L		98	73 - 130	10	20
1,2,4-Trimethylbenzene	<0.14		50.0	57.1		ug/L		114	75 - 121	8	20
1,2-Dibromo-3-Chloropropane	<0.87		50.0	56.1		ug/L		112	62 - 130	2	20
1,2-Dibromoethane	<0.36		50.0	53.4		ug/L		107	78 - 122	11	20
1,2-Dichlorobenzene	<0.27		50.0	51.8		ug/L		104	75 - 120	4	20
1,2-Dichloroethane	<0.28		50.0	48.2		ug/L		96	69 - 130	10	20
1,2-Dichloropropane	<0.20		50.0	48.9		ug/L		98	75 - 120	6	20
1,3,5-Trimethylbenzene	<0.18		50.0	57.6		ug/L		115	75 - 121	7	20
1,3-Dichlorobenzene	<0.15		50.0	51.3		ug/L		103	75 - 120	6	20
1,3-Dichloropropane	<0.13		50.0	44.6	F2	ug/L		89	77 - 124	26	20
1,4-Dichlorobenzene	<0.15		50.0	47.6		ug/L		95	75 - 120	1	20
2,2-Dichloropropane	<0.32		50.0	49.5		ug/L		99	65 - 132	12	20
2-Chlorotoluene	<0.21		50.0	55.8		ug/L		112	75 - 120	15	20
4-Chlorotoluene	<0.20		50.0	54.5		ug/L		109	75 - 120	9	20
Benzene	<0.074		50.0	52.5		ug/L		105	75 - 120	9	20
Bromobenzene	<0.25		50.0	53.9		ug/L		108	75 - 120	5	20
Bromochloromethane	<0.40		50.0	54.7		ug/L		109	76 - 120	8	20
Bromodichloromethane	<0.17		50.0	51.0		ug/L		102	77 - 121	12	20

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Lab Sample ID: 500-86239-7 MSD

Client Sample ID: MP-16 (175-179)

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 260628

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Bromoform	<0.28		50.0	54.7		ug/L		109	68 - 126	4	20
Bromomethane	<0.31		50.0	41.3		ug/L		83	45 - 169	7	20
Carbon tetrachloride	<0.26		50.0	47.9		ug/L		96	70 - 130	13	20
Chlorobenzene	<0.14		50.0	51.7		ug/L		103	75 - 120	4	20
Chloroethane	<0.34		50.0	49.2		ug/L		98	58 - 147	9	20
Chloroform	<0.20		50.0	48.7		ug/L		97	76 - 120	12	20
Chloromethane	<0.18		50.0	48.4		ug/L		97	63 - 133	11	20
cis-1,2-Dichloroethene	<0.12		50.0	52.2		ug/L		104	75 - 120	9	20
cis-1,3-Dichloropropene	<0.18		50.0	51.8		ug/L		104	78 - 130	2	20
Dibromochloromethane	<0.32		50.0	48.5		ug/L		97	71 - 126	10	20
Dibromomethane	<0.33		50.0	49.5		ug/L		99	75 - 120	3	20
Dichlorodifluoromethane	<0.20		50.0	47.7		ug/L		95	41 - 146	18	20
Ethylbenzene	<0.13		50.0	51.8		ug/L		104	75 - 120	4	20
Hexachlorobutadiene	<0.26		50.0	51.0		ug/L		102	71 - 131	6	20
Isopropylbenzene	<0.14		50.0	59.0		ug/L		118	75 - 121	17	20
Methyl tert-butyl ether	<0.24		50.0	51.4		ug/L		103	75 - 130	9	20
Methylene Chloride	<0.68		50.0	54.0		ug/L		108	73 - 130	11	20
Naphthalene	<0.16		50.0	59.1		ug/L		118	69 - 135	2	20
n-Butylbenzene	<0.13		50.0	53.5		ug/L		107	75 - 121	2	20
N-Propylbenzene	<0.13		50.0	56.7		ug/L		113	75 - 120	17	20
p-Isopropyltoluene	<0.17		50.0	56.8		ug/L		114	75 - 121	4	20
sec-Butylbenzene	<0.15		50.0	57.8		ug/L		116	75 - 120	2	20
Styrene	<0.10		50.0	54.7		ug/L		109	75 - 120	3	20
tert-Butylbenzene	<0.14		50.0	57.9		ug/L		116	75 - 123	6	20
Tetrachloroethene	4.8		50.0	50.7		ug/L		92	75 - 120	15	20
Toluene	<0.11		50.0	42.8	F2	ug/L		86	75 - 120	29	20
trans-1,2-Dichloroethene	<0.25		50.0	50.7		ug/L		101	77 - 120	10	20
trans-1,3-Dichloropropene	<0.21		50.0	51.3		ug/L		103	74 - 130	13	20
Trichloroethene	0.98		50.0	50.0		ug/L		98	75 - 120	19	20
Trichlorofluoromethane	<0.19		50.0	52.6		ug/L		105	71 - 130	10	20
Vinyl chloride	<0.10		50.0	54.9		ug/L		110	72 - 123	10	20
Xylenes, Total	<0.068		100	99.4		ug/L		99	75 - 120	8	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	92		75 - 125
4-Bromofluorobenzene (Surr)	100		75 - 120
Dibromofluoromethane	99		75 - 120
Toluene-d8 (Surr)	93		75 - 120

Lab Sample ID: MB 500-260872/8

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 260872

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/24/14 13:19	1
1,1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/24/14 13:19	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/24/14 13:19	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 13:19	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Lab Sample ID: MB 500-260872/8

Matrix: Water

Analysis Batch: 260872

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/24/14 13:19	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/24/14 13:19	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/24/14 13:19	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/24/14 13:19	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/24/14 13:19	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/24/14 13:19	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 13:19	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/24/14 13:19	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/24/14 13:19	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/24/14 13:19	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 13:19	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/24/14 13:19	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/24/14 13:19	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 13:19	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/24/14 13:19	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 13:19	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/24/14 13:19	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/24/14 13:19	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/24/14 13:19	1
Benzene	<0.074		0.50	0.074	ug/L			10/24/14 13:19	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/24/14 13:19	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/24/14 13:19	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/24/14 13:19	1
Bromoform	<0.28		1.0	0.28	ug/L			10/24/14 13:19	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/24/14 13:19	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/24/14 13:19	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/24/14 13:19	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/24/14 13:19	1
Chloroform	<0.20		1.0	0.20	ug/L			10/24/14 13:19	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/24/14 13:19	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/24/14 13:19	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/24/14 13:19	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/24/14 13:19	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/24/14 13:19	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/24/14 13:19	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/24/14 13:19	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/24/14 13:19	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/24/14 13:19	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 13:19	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/24/14 13:19	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/24/14 13:19	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/24/14 13:19	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 13:19	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 13:19	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/24/14 13:19	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/24/14 13:19	1
Styrene	<0.10		1.0	0.10	ug/L			10/24/14 13:19	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 13:19	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Lab Sample ID: MB 500-260872/8

Matrix: Water

Analysis Batch: 260872

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/24/14 13:19	1
Toluene	<0.11		0.50	0.11	ug/L			10/24/14 13:19	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/14 13:19	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/24/14 13:19	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/24/14 13:19	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/24/14 13:19	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/24/14 13:19	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/24/14 13:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 125		10/24/14 13:19	1
4-Bromofluorobenzene (Surr)	80		75 - 120		10/24/14 13:19	1
Dibromofluoromethane	107		75 - 120		10/24/14 13:19	1
Toluene-d8 (Surr)	93		75 - 120		10/24/14 13:19	1

Lab Sample ID: LCS 500-260872/9

Matrix: Water

Analysis Batch: 260872

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	52.4		ug/L		105	75 - 122
1,1,1-Trichloroethane	50.0	47.1		ug/L		94	72 - 130
1,1,1,2,2-Tetrachloroethane	50.0	47.2		ug/L		94	72 - 130
1,1,2-Trichloroethane	50.0	44.7		ug/L		89	75 - 120
1,1-Dichloroethane	50.0	58.9		ug/L		118	75 - 120
1,1-Dichloroethene	50.0	49.2		ug/L		98	69 - 120
1,1-Dichloropropene	50.0	52.5		ug/L		105	75 - 130
1,2,3-Trichlorobenzene	50.0	50.4		ug/L		101	69 - 131
1,2,3-Trichloropropane	50.0	47.7		ug/L		95	65 - 132
1,2,4-Trichlorobenzene	50.0	49.0		ug/L		98	73 - 130
1,2,4-Trimethylbenzene	50.0	44.6		ug/L		89	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	56.4		ug/L		113	62 - 130
1,2-Dibromoethane	50.0	49.1		ug/L		98	78 - 122
1,2-Dichlorobenzene	50.0	46.4		ug/L		93	75 - 120
1,2-Dichloroethane	50.0	45.6		ug/L		91	69 - 130
1,2-Dichloropropane	50.0	57.4		ug/L		115	75 - 120
1,3,5-Trimethylbenzene	50.0	43.6		ug/L		87	75 - 121
1,3-Dichlorobenzene	50.0	45.9		ug/L		92	75 - 120
1,3-Dichloropropane	50.0	42.6		ug/L		85	77 - 124
1,4-Dichlorobenzene	50.0	45.5		ug/L		91	75 - 120
2,2-Dichloropropane	50.0	53.0		ug/L		106	65 - 132
2-Chlorotoluene	50.0	45.6		ug/L		91	75 - 120
4-Chlorotoluene	50.0	38.8		ug/L		78	75 - 120
Benzene	50.0	51.0		ug/L		102	75 - 120
Bromobenzene	50.0	49.9		ug/L		100	75 - 120
Bromochloromethane	50.0	55.9		ug/L		112	76 - 120
Bromodichloromethane	50.0	52.4		ug/L		105	77 - 121
Bromoform	50.0	56.1		ug/L		112	68 - 126

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Lab Sample ID: LCS 500-260872/9

Matrix: Water

Analysis Batch: 260872

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	50.0	42.0		ug/L		84	45 - 169
Carbon tetrachloride	50.0	53.3		ug/L		107	70 - 130
Chlorobenzene	50.0	52.2		ug/L		104	75 - 120
Chloroethane	50.0	51.0		ug/L		102	58 - 147
Chloroform	50.0	50.8		ug/L		102	76 - 120
Chloromethane	50.0	49.1		ug/L		98	63 - 133
cis-1,2-Dichloroethene	50.0	51.2		ug/L		102	75 - 120
cis-1,3-Dichloropropene	50.0	51.2		ug/L		102	78 - 130
Dibromochloromethane	50.0	45.6		ug/L		91	71 - 126
Dibromomethane	50.0	50.1		ug/L		100	75 - 120
Dichlorodifluoromethane	50.0	45.5		ug/L		91	41 - 146
Ethylbenzene	50.0	49.7		ug/L		99	75 - 120
Hexachlorobutadiene	50.0	51.8		ug/L		104	71 - 131
Isopropylbenzene	50.0	50.8		ug/L		102	75 - 121
Methyl tert-butyl ether	50.0	53.4		ug/L		107	75 - 130
Methylene Chloride	50.0	62.3		ug/L		125	73 - 130
Naphthalene	50.0	56.6		ug/L		113	69 - 135
n-Butylbenzene	50.0	46.8		ug/L		94	75 - 121
N-Propylbenzene	50.0	47.0		ug/L		94	75 - 120
p-Isopropyltoluene	50.0	51.6		ug/L		103	75 - 121
sec-Butylbenzene	50.0	49.2		ug/L		98	75 - 120
Styrene	50.0	49.7		ug/L		99	75 - 120
tert-Butylbenzene	50.0	46.1		ug/L		92	75 - 123
Tetrachloroethene	50.0	47.8		ug/L		96	75 - 120
Toluene	50.0	42.8		ug/L		86	75 - 120
trans-1,2-Dichloroethene	50.0	51.6		ug/L		103	77 - 120
trans-1,3-Dichloropropene	50.0	45.2		ug/L		90	74 - 130
Trichloroethene	50.0	56.5		ug/L		113	75 - 120
Trichlorofluoromethane	50.0	50.8		ug/L		102	71 - 130
Vinyl chloride	50.0	57.4		ug/L		115	72 - 123
Xylenes, Total	100	94.4		ug/L		94	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		75 - 125
4-Bromofluorobenzene (Surr)	83		75 - 120
Dibromofluoromethane	101		75 - 120
Toluene-d8 (Surr)	81		75 - 120

Lab Sample ID: 500-86239-15 MS

Matrix: Water

Analysis Batch: 260872

Client Sample ID: MW-303

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
1,1,1,2-Tetrachloroethane	<0.25		50.0	53.8		ug/L		108	75 - 122
1,1,1-Trichloroethane	<0.20		50.0	46.4		ug/L		93	72 - 130
1,1,2,2-Tetrachloroethane	<0.23		50.0	47.2		ug/L		94	72 - 130
1,1,2-Trichloroethane	<0.28		50.0	45.4		ug/L		91	75 - 120
1,1-Dichloroethane	<0.19		50.0	63.6	F1	ug/L		127	75 - 120

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Lab Sample ID: 500-86239-15 MS

Matrix: Water

Analysis Batch: 260872

Client Sample ID: MW-303

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier			Limits	
1,1-Dichloroethene	<0.31		50.0	54.1		ug/L		108	69 - 120
1,1-Dichloropropene	<0.34		50.0	47.9		ug/L		96	75 - 130
1,2,3-Trichlorobenzene	<0.24		50.0	51.7		ug/L		103	69 - 131
1,2,3-Trichloropropane	<0.45		50.0	47.1		ug/L		94	65 - 132
1,2,4-Trichlorobenzene	<0.31		50.0	49.8		ug/L		100	73 - 130
1,2,4-Trimethylbenzene	<0.14		50.0	49.3		ug/L		99	75 - 121
1,2-Dibromo-3-Chloropropane	<0.87		50.0	58.1		ug/L		116	62 - 130
1,2-Dibromoethane	<0.36		50.0	52.6		ug/L		105	78 - 122
1,2-Dichlorobenzene	<0.27		50.0	48.8		ug/L		98	75 - 120
1,2-Dichloroethane	<0.28		50.0	49.0		ug/L		98	69 - 130
1,2-Dichloropropane	<0.20		50.0	53.9		ug/L		108	75 - 120
1,3,5-Trimethylbenzene	<0.18		50.0	47.2		ug/L		94	75 - 121
1,3-Dichlorobenzene	<0.15		50.0	48.2		ug/L		96	75 - 120
1,3-Dichloropropane	<0.13		50.0	45.5		ug/L		91	77 - 124
1,4-Dichlorobenzene	<0.15		50.0	47.3		ug/L		95	75 - 120
2,2-Dichloropropane	<0.32		50.0	47.2		ug/L		94	65 - 132
2-Chlorotoluene	<0.21		50.0	42.7		ug/L		85	75 - 120
4-Chlorotoluene	<0.20		50.0	42.3		ug/L		85	75 - 120
Benzene	<0.074		50.0	47.5		ug/L		95	75 - 120
Bromobenzene	<0.25		50.0	49.8		ug/L		100	75 - 120
Bromochloromethane	<0.40		50.0	56.2		ug/L		112	76 - 120
Bromodichloromethane	<0.17		50.0	51.2		ug/L		102	77 - 121
Bromoform	<0.28		50.0	60.0		ug/L		120	68 - 126
Bromomethane	<0.31		50.0	49.4		ug/L		99	45 - 169
Carbon tetrachloride	<0.26		50.0	51.4		ug/L		103	70 - 130
Chlorobenzene	<0.14		50.0	51.0		ug/L		102	75 - 120
Chloroethane	<0.34		50.0	74.8	F1	ug/L		150	58 - 147
Chloroform	<0.20		50.0	48.8		ug/L		98	76 - 120
Chloromethane	<0.18		50.0	51.1		ug/L		102	63 - 133
cis-1,2-Dichloroethene	<0.12		50.0	50.2		ug/L		100	75 - 120
cis-1,3-Dichloropropene	<0.18		50.0	46.0		ug/L		92	78 - 130
Dibromochloromethane	<0.32		50.0	48.8		ug/L		98	71 - 126
Dibromomethane	<0.33		50.0	48.4		ug/L		97	75 - 120
Dichlorodifluoromethane	<0.20		50.0	54.4		ug/L		109	41 - 146
Ethylbenzene	<0.13		50.0	49.4		ug/L		99	75 - 120
Hexachlorobutadiene	<0.26		50.0	51.0		ug/L		102	71 - 131
Isopropylbenzene	<0.14		50.0	47.3		ug/L		95	75 - 121
Methyl tert-butyl ether	<0.24		50.0	52.9		ug/L		106	75 - 130
Methylene Chloride	<0.68		50.0	63.5		ug/L		127	73 - 130
Naphthalene	<0.16		50.0	61.4		ug/L		123	69 - 135
n-Butylbenzene	<0.13		50.0	49.0		ug/L		98	75 - 121
N-Propylbenzene	<0.13		50.0	43.2		ug/L		86	75 - 120
p-Isopropyltoluene	<0.17		50.0	51.8		ug/L		104	75 - 121
sec-Butylbenzene	<0.15		50.0	51.8		ug/L		104	75 - 120
Styrene	<0.10		50.0	52.7		ug/L		105	75 - 120
tert-Butylbenzene	<0.14		50.0	51.1		ug/L		102	75 - 123
Tetrachloroethene	<0.17		50.0	48.1		ug/L		96	75 - 120
Toluene	<0.11		50.0	43.1		ug/L		86	75 - 120

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Lab Sample ID: 500-86239-15 MS

Matrix: Water

Analysis Batch: 260872

Client Sample ID: MW-303

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits	
	Result	Qualifier	Added	Result	Qualifier					
trans-1,2-Dichloroethene	<0.25		50.0	52.0		ug/L		104	77 - 120	
trans-1,3-Dichloropropene	<0.21		50.0	45.8		ug/L		92	74 - 130	
Trichloroethene	<0.19		50.0	56.5		ug/L		113	75 - 120	
Trichlorofluoromethane	<0.19		50.0	56.3		ug/L		113	71 - 130	
Vinyl chloride	<0.10		50.0	63.7	F1	ug/L		127	72 - 123	
Xylenes, Total	<0.068		100	89.9		ug/L		90	75 - 120	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	97		75 - 125							
4-Bromofluorobenzene (Surr)	81		75 - 120							
Dibromofluoromethane	106		75 - 120							
Toluene-d8 (Surr)	89		75 - 120							

Lab Sample ID: 500-86239-15 MSD

Matrix: Water

Analysis Batch: 260872

Client Sample ID: MW-303

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	<0.25		50.0	58.4		ug/L		117	75 - 122	8	20
1,1,1-Trichloroethane	<0.20		50.0	51.0		ug/L		102	72 - 130	10	20
1,1,1,2,2-Tetrachloroethane	<0.23		50.0	58.8	F2	ug/L		118	72 - 130	22	20
1,1,2-Trichloroethane	<0.28		50.0	53.0		ug/L		106	75 - 120	15	20
1,1-Dichloroethane	<0.19		50.0	57.2		ug/L		114	75 - 120	10	20
1,1-Dichloroethene	<0.31		50.0	49.4		ug/L		99	69 - 120	9	20
1,1-Dichloropropene	<0.34		50.0	51.4		ug/L		103	75 - 130	7	20
1,2,3-Trichlorobenzene	<0.24		50.0	59.8		ug/L		120	69 - 131	15	20
1,2,3-Trichloropropane	<0.45		50.0	59.4	F2	ug/L		119	65 - 132	23	20
1,2,4-Trichlorobenzene	<0.31		50.0	57.4		ug/L		115	73 - 130	14	20
1,2,4-Trimethylbenzene	<0.14		50.0	58.9		ug/L		118	75 - 121	18	20
1,2-Dibromo-3-Chloropropane	<0.87		50.0	63.9		ug/L		128	62 - 130	10	20
1,2-Dibromoethane	<0.36		50.0	57.2		ug/L		114	78 - 122	8	20
1,2-Dichlorobenzene	<0.27		50.0	51.6		ug/L		103	75 - 120	6	20
1,2-Dichloroethane	<0.28		50.0	53.6		ug/L		107	69 - 130	9	20
1,2-Dichloropropane	<0.20		50.0	62.6	F1	ug/L		125	75 - 120	15	20
1,3,5-Trimethylbenzene	<0.18		50.0	57.3		ug/L		115	75 - 121	19	20
1,3-Dichlorobenzene	<0.15		50.0	54.5		ug/L		109	75 - 120	12	20
1,3-Dichloropropane	<0.13		50.0	51.5		ug/L		103	77 - 124	12	20
1,4-Dichlorobenzene	<0.15		50.0	49.2		ug/L		98	75 - 120	4	20
2,2-Dichloropropane	<0.32		50.0	53.7		ug/L		107	65 - 132	13	20
2-Chlorotoluene	<0.21		50.0	54.9	F2	ug/L		110	75 - 120	25	20
4-Chlorotoluene	<0.20		50.0	49.4		ug/L		99	75 - 120	15	20
Benzene	<0.074		50.0	48.9		ug/L		98	75 - 120	3	20
Bromobenzene	<0.25		50.0	60.4	F1	ug/L		121	75 - 120	19	20
Bromochloromethane	<0.40		50.0	58.7		ug/L		117	76 - 120	4	20
Bromodichloromethane	<0.17		50.0	57.9		ug/L		116	77 - 121	12	20
Bromoform	<0.28		50.0	63.0		ug/L		126	68 - 126	5	20
Bromomethane	<0.31		50.0	49.6		ug/L		99	45 - 169	0	20
Carbon tetrachloride	<0.26		50.0	55.1		ug/L		110	70 - 130	7	20

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Lab Sample ID: 500-86239-15 MSD

Matrix: Water

Analysis Batch: 260872

Client Sample ID: MW-303

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Chlorobenzene	<0.14		50.0	55.2		ug/L		110	75 - 120	8	20
Chloroethane	<0.34		50.0	57.7	F2	ug/L		115	58 - 147	26	20
Chloroform	<0.20		50.0	54.4		ug/L		109	76 - 120	11	20
Chloromethane	<0.18		50.0	48.4		ug/L		97	63 - 133	5	20
cis-1,2-Dichloroethene	<0.12		50.0	53.3		ug/L		107	75 - 120	6	20
cis-1,3-Dichloropropene	<0.18		50.0	57.0	F2	ug/L		114	78 - 130	21	20
Dibromochloromethane	<0.32		50.0	54.2		ug/L		108	71 - 126	10	20
Dibromomethane	<0.33		50.0	57.1		ug/L		114	75 - 120	16	20
Dichlorodifluoromethane	<0.20		50.0	51.3		ug/L		103	41 - 146	6	20
Ethylbenzene	<0.13		50.0	55.4		ug/L		111	75 - 120	11	20
Hexachlorobutadiene	<0.26		50.0	61.1		ug/L		122	71 - 131	18	20
Isopropylbenzene	<0.14		50.0	57.0		ug/L		114	75 - 121	19	20
Methyl tert-butyl ether	<0.24		50.0	55.6		ug/L		111	75 - 130	5	20
Methylene Chloride	<0.68		50.0	57.3		ug/L		115	73 - 130	10	20
Naphthalene	<0.16		50.0	71.4	F1	ug/L		143	69 - 135	15	20
n-Butylbenzene	<0.13		50.0	47.0		ug/L		94	75 - 121	4	20
N-Propylbenzene	<0.13		50.0	54.6	F2	ug/L		109	75 - 120	23	20
p-Isopropyltoluene	<0.17		50.0	56.0		ug/L		112	75 - 121	8	20
sec-Butylbenzene	<0.15		50.0	60.4	F1	ug/L		121	75 - 120	15	20
Styrene	<0.10		50.0	56.9		ug/L		114	75 - 120	8	20
tert-Butylbenzene	<0.14		50.0	59.1		ug/L		118	75 - 123	14	20
Tetrachloroethene	<0.17		50.0	51.1		ug/L		102	75 - 120	6	20
Toluene	<0.11		50.0	48.1		ug/L		96	75 - 120	11	20
trans-1,2-Dichloroethene	<0.25		50.0	50.8		ug/L		102	77 - 120	2	20
trans-1,3-Dichloropropene	<0.21		50.0	56.0		ug/L		112	74 - 130	20	20
Trichloroethene	<0.19		50.0	58.7		ug/L		117	75 - 120	4	20
Trichlorofluoromethane	<0.19		50.0	54.8		ug/L		110	71 - 130	3	20
Vinyl chloride	<0.10		50.0	59.6		ug/L		119	72 - 123	7	20
Xylenes, Total	<0.068		100	92.2		ug/L		92	75 - 120	3	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	90		75 - 125
4-Bromofluorobenzene (Surr)	94		75 - 120
Dibromofluoromethane	99		75 - 120
Toluene-d8 (Surr)	94		75 - 120

Lab Sample ID: MB 500-260879/7

Matrix: Water

Analysis Batch: 260879

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/25/14 02:19	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/25/14 02:19	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/25/14 02:19	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/25/14 02:19	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/25/14 02:19	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/25/14 02:19	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/25/14 02:19	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Lab Sample ID: MB 500-260879/7

Matrix: Water

Analysis Batch: 260879

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/25/14 02:19	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/25/14 02:19	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/25/14 02:19	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/25/14 02:19	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/25/14 02:19	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/25/14 02:19	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/25/14 02:19	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/25/14 02:19	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/25/14 02:19	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/25/14 02:19	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/25/14 02:19	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/25/14 02:19	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/25/14 02:19	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/25/14 02:19	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/25/14 02:19	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/25/14 02:19	1
Benzene	<0.074		0.50	0.074	ug/L			10/25/14 02:19	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/25/14 02:19	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/25/14 02:19	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/25/14 02:19	1
Bromoform	<0.28		1.0	0.28	ug/L			10/25/14 02:19	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/25/14 02:19	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/25/14 02:19	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/25/14 02:19	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/25/14 02:19	1
Chloroform	<0.20		1.0	0.20	ug/L			10/25/14 02:19	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/25/14 02:19	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/25/14 02:19	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/25/14 02:19	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/25/14 02:19	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/25/14 02:19	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/25/14 02:19	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/25/14 02:19	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/25/14 02:19	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/25/14 02:19	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/25/14 02:19	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/25/14 02:19	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/25/14 02:19	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/25/14 02:19	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/25/14 02:19	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/25/14 02:19	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/25/14 02:19	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/25/14 02:19	1
Styrene	<0.10		1.0	0.10	ug/L			10/25/14 02:19	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/25/14 02:19	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/25/14 02:19	1
Toluene	<0.11		0.50	0.11	ug/L			10/25/14 02:19	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/25/14 02:19	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Lab Sample ID: MB 500-260879/7

Matrix: Water

Analysis Batch: 260879

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/25/14 02:19	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/25/14 02:19	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/25/14 02:19	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/25/14 02:19	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/25/14 02:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 125		10/25/14 02:19	1
4-Bromofluorobenzene (Surr)	89		75 - 120		10/25/14 02:19	1
Dibromofluoromethane	105		75 - 120		10/25/14 02:19	1
Toluene-d8 (Surr)	97		75 - 120		10/25/14 02:19	1

Lab Sample ID: LCS 500-260879/27

Matrix: Water

Analysis Batch: 260879

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	54.3		ug/L		109	75 - 122
1,1,1-Trichloroethane	50.0	48.1		ug/L		96	72 - 130
1,1,1,2,2-Tetrachloroethane	50.0	49.2		ug/L		98	72 - 130
1,1,2-Trichloroethane	50.0	46.4		ug/L		93	75 - 120
1,1-Dichloroethane	50.0	52.8		ug/L		106	75 - 120
1,1-Dichloroethene	50.0	44.5		ug/L		89	69 - 120
1,1-Dichloropropene	50.0	52.4		ug/L		105	75 - 130
1,2,3-Trichlorobenzene	50.0	50.2		ug/L		100	69 - 131
1,2,3-Trichloropropane	50.0	49.0		ug/L		98	65 - 132
1,2,4-Trichlorobenzene	50.0	51.6		ug/L		103	73 - 130
1,2,4-Trimethylbenzene	50.0	52.7		ug/L		105	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	51.4		ug/L		103	62 - 130
1,2-Dibromoethane	50.0	49.8		ug/L		100	78 - 122
1,2-Dichlorobenzene	50.0	46.8		ug/L		94	75 - 120
1,2-Dichloroethane	50.0	49.7		ug/L		99	69 - 130
1,2-Dichloropropane	50.0	56.4		ug/L		113	75 - 120
1,3,5-Trimethylbenzene	50.0	53.0		ug/L		106	75 - 121
1,3-Dichlorobenzene	50.0	49.3		ug/L		99	75 - 120
1,3-Dichloropropane	50.0	45.7		ug/L		91	77 - 124
1,4-Dichlorobenzene	50.0	47.4		ug/L		95	75 - 120
2,2-Dichloropropane	50.0	48.4		ug/L		97	65 - 132
2-Chlorotoluene	50.0	49.3		ug/L		99	75 - 120
4-Chlorotoluene	50.0	47.9		ug/L		96	75 - 120
Benzene	50.0	50.9		ug/L		102	75 - 120
Bromobenzene	50.0	51.9		ug/L		104	75 - 120
Bromochloromethane	50.0	55.2		ug/L		110	76 - 120
Bromodichloromethane	50.0	51.8		ug/L		104	77 - 121
Bromoform	50.0	56.3		ug/L		113	68 - 126
Bromomethane	50.0	43.3		ug/L		87	45 - 169
Carbon tetrachloride	50.0	54.1		ug/L		108	70 - 130
Chlorobenzene	50.0	52.4		ug/L		105	75 - 120

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

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

Lab Sample ID: LCS 500-260879/27

Matrix: Water

Analysis Batch: 260879

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	56.8		ug/L		114	58 - 147
Chloroform	50.0	48.6		ug/L		97	76 - 120
Chloromethane	50.0	47.5		ug/L		95	63 - 133
cis-1,2-Dichloroethene	50.0	50.3		ug/L		101	75 - 120
cis-1,3-Dichloropropene	50.0	55.1		ug/L		110	78 - 130
Dibromochloromethane	50.0	47.9		ug/L		96	71 - 126
Dibromomethane	50.0	49.6		ug/L		99	75 - 120
Dichlorodifluoromethane	50.0	45.5		ug/L		91	41 - 146
Ethylbenzene	50.0	53.5		ug/L		107	75 - 120
Hexachlorobutadiene	50.0	56.8		ug/L		114	71 - 131
Isopropylbenzene	50.0	55.4		ug/L		111	75 - 121
Methyl tert-butyl ether	50.0	44.5		ug/L		89	75 - 130
Methylene Chloride	50.0	47.0		ug/L		94	73 - 130
Naphthalene	50.0	56.2		ug/L		112	69 - 135
n-Butylbenzene	50.0	48.7		ug/L		97	75 - 121
N-Propylbenzene	50.0	52.1		ug/L		104	75 - 120
p-Isopropyltoluene	50.0	56.0		ug/L		112	75 - 121
sec-Butylbenzene	50.0	55.6		ug/L		111	75 - 120
Styrene	50.0	54.4		ug/L		109	75 - 120
tert-Butylbenzene	50.0	52.9		ug/L		106	75 - 123
Tetrachloroethene	50.0	52.9		ug/L		106	75 - 120
Toluene	50.0	51.4		ug/L		103	75 - 120
trans-1,2-Dichloroethene	50.0	47.4		ug/L		95	77 - 120
trans-1,3-Dichloropropene	50.0	54.4		ug/L		109	74 - 130
Trichloroethene	50.0	57.9		ug/L		116	75 - 120
Trichlorofluoromethane	50.0	50.3		ug/L		101	71 - 130
Vinyl chloride	50.0	55.6		ug/L		111	72 - 123
Xylenes, Total	100	94.5		ug/L		95	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	91		75 - 125
4-Bromofluorobenzene (Surr)	89		75 - 120
Dibromofluoromethane	100		75 - 120
Toluene-d8 (Surr)	97		75 - 120

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-260418/1-A

Matrix: Water

Analysis Batch: 261299

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 260418

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.067		0.40	0.067	ug/L		10/22/14 09:27	10/28/14 08:56	1
PCB-1221	<0.20		0.40	0.20	ug/L		10/22/14 09:27	10/28/14 08:56	1
PCB-1232	<0.20		0.40	0.20	ug/L		10/22/14 09:27	10/28/14 08:56	1
PCB-1242	<0.20		0.40	0.20	ug/L		10/22/14 09:27	10/28/14 08:56	1
PCB-1248	<0.20		0.40	0.20	ug/L		10/22/14 09:27	10/28/14 08:56	1
PCB-1254	<0.20		0.40	0.20	ug/L		10/22/14 09:27	10/28/14 08:56	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-260418/1-A

Matrix: Water

Analysis Batch: 261299

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 260418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	<0.070		0.40	0.070	ug/L		10/22/14 09:27	10/28/14 08:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	63		50 - 120	10/22/14 09:27	10/28/14 08:56	1
DCB Decachlorobiphenyl	95		29 - 126	10/22/14 09:27	10/28/14 08:56	1

Lab Sample ID: LCS 500-260418/2-A

Matrix: Water

Analysis Batch: 261299

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 260418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.01	3.84		ug/L		96	70 - 130
PCB-1260	4.02	3.97		ug/L		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	84		50 - 120
DCB Decachlorobiphenyl	98		29 - 126

Lab Sample ID: LCSD 500-260418/3-A

Matrix: Water

Analysis Batch: 261299

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 260418

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
PCB-1016	4.01	3.66		ug/L		91	70 - 130	5	20
PCB-1260	4.02	4.01		ug/L		100	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	73		50 - 120
DCB Decachlorobiphenyl	93		29 - 126

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-86239-1

Date Collected: 10/16/14 00:00

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260628	10/23/14 15:26	JMP	TAL CHI

Client Sample ID: MP-15 (177-187)

Lab Sample ID: 500-86239-2

Date Collected: 10/16/14 09:50

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260421	10/22/14 20:16	EMA	TAL CHI

Client Sample ID: MP-15 (142-146)

Lab Sample ID: 500-86239-3

Date Collected: 10/16/14 10:10

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	260421	10/22/14 20:43	EMA	TAL CHI
Total/NA	Analysis	8260B	DL	20	260421	10/22/14 21:09	EMA	TAL CHI

Client Sample ID: MP-15 (120-125)

Lab Sample ID: 500-86239-4

Date Collected: 10/16/14 10:30

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	260628	10/23/14 19:26	JMP	TAL CHI
Total/NA	Analysis	8260B	DL	50	260628	10/23/14 19:53	JMP	TAL CHI

Client Sample ID: MP-15 (100-105)

Lab Sample ID: 500-86239-5

Date Collected: 10/16/14 10:37

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	260628	10/23/14 20:20	JMP	TAL CHI
Total/NA	Analysis	8260B	DL	20	260628	10/23/14 20:47	JMP	TAL CHI

Client Sample ID: MP-15 (88-92)

Lab Sample ID: 500-86239-6

Date Collected: 10/16/14 11:00

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260628	10/23/14 21:13	JMP	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MP-16 (175-179)

Lab Sample ID: 500-86239-7

Date Collected: 10/16/14 13:35

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260628	10/23/14 21:40	JMP	TAL CHI

Client Sample ID: MP-16 (140-144)

Lab Sample ID: 500-86239-8

Date Collected: 10/16/14 13:37

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260879	10/25/14 03:13	EMA	TAL CHI

Client Sample ID: MP-16 (106-116)

Lab Sample ID: 500-86239-9

Date Collected: 10/16/14 13:55

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260879	10/25/14 03:39	EMA	TAL CHI

Client Sample ID: MP-16 (80-84)

Lab Sample ID: 500-86239-10

Date Collected: 10/16/14 14:05

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260879	10/25/14 04:06	EMA	TAL CHI

Client Sample ID: MW-6D

Lab Sample ID: 500-86239-11

Date Collected: 10/16/14 11:10

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	260872	10/24/14 15:23	EMA	TAL CHI
Total/NA	Analysis	8260B	DL	20	260872	10/24/14 15:50	EMA	TAL CHI

Client Sample ID: MW-2S

Lab Sample ID: 500-86239-12

Date Collected: 10/16/14 14:50

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260879	10/25/14 04:59	EMA	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: MW-6S

Lab Sample ID: 500-86239-13

Date Collected: 10/16/14 14:05

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260879	10/25/14 05:26	EMA	TAL CHI

Client Sample ID: MW-2D

Lab Sample ID: 500-86239-14

Date Collected: 10/16/14 13:45

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	260872	10/24/14 16:17	EMA	TAL CHI
Total/NA	Analysis	8260B	DL	20	260872	10/24/14 16:43	EMA	TAL CHI

Client Sample ID: MW-303

Lab Sample ID: 500-86239-15

Date Collected: 10/16/14 17:08

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260872	10/24/14 17:10	EMA	TAL CHI

Client Sample ID: MW-3D

Lab Sample ID: 500-86239-16

Date Collected: 10/16/14 18:17

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	260872	10/24/14 17:37	EMA	TAL CHI
Total/NA	Analysis	8260B	DL	20	260872	10/24/14 18:04	EMA	TAL CHI

Client Sample ID: MW-22D

Lab Sample ID: 500-86239-17

Date Collected: 10/16/14 17:50

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260872	10/24/14 18:31	EMA	TAL CHI
Total/NA	Analysis	8260B	DL	10	260872	10/24/14 18:58	EMA	TAL CHI
Dissolved	Prep	3510C			260418	10/22/14 09:27	SML	TAL CHI
Dissolved	Analysis	8082		1	261299	10/28/14 09:39	PJG	TAL CHI

Client Sample ID: DUP-1

Lab Sample ID: 500-86239-18

Date Collected: 10/16/14 00:00

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	260872	10/24/14 19:24	EMA	TAL CHI
Total/NA	Analysis	8260B	DL	20	260872	10/24/14 19:52	EMA	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Client Sample ID: DUP-2

Lab Sample ID: 500-86239-19

Date Collected: 10/16/14 00:00

Matrix: Water

Date Received: 10/17/14 09:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260872	10/24/14 20:18	EMA	TAL CHI
Total/NA	Analysis	8260B	DL	10	260872	10/24/14 20:45	EMA	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp - WI001368.0018.00002

TestAmerica Job ID: 500-86239-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-15 *


* Certification renewal pending - certification considered valid.



ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order # 500-86239

Send Results to:	Contact & Company Name: Chris Kubacki AUS		Telephone: 414.276.7742		Preservative	B	E											
	Address: 126 N. Jefferson St #400		Fax: 414.276.7603		Filtered (✓)	-	✓											
	City State Zip: Milwaukee WI 53202		E-mail Address: chris.kubacki@arcadis-us.com		# of Containers	3	2											
	Project Name/Location (City, State): MYC (Madison, WI)		Project #: W1003208.0018.0002		Container Information	1	9											
Sampler's Printed Name: Nicole Dudin		Sampler's Signature: <i>[Signature]</i>		PARAMETER ANALYSIS & METHOD														
				<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">VOCs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Method 821.0B</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PCBS</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Method 8082</div> </div>														
				REMARKS														
				<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"></div> <div style="width: 20%; text-align: center;">  500-86239 COC </div> <div style="width: 40%;"></div> </div>														
Sample ID	Collection		Type (✓)		Matrix													
	Date	Time	Comp	Grab														
1 Trip Blank	-	-	-	-	W	1												
2 MP-15 (177-187)	10/10/14	0950		✓	W	3												
3 MP-15 (142-146)	10/10/14	1010		✓	W	3												
4 MP-15 (120-125)	10/10/14	1030		✓	W	3												
5 MP-15 (100-105)	10/10/14	1037		✓	W	3												
6 MP-15 (88-92)	10/10/14	1100		✓	W	3												
7 MP-16 (175-179)	10/10/14	1335		✓	W	3												
8 MP-16 (140-144)	10/10/14	1337		✓	W	3												
9 MP-16 (106-116)	10/10/14	1355		✓	W	3												
10 MP-16 (80-84)	10/10/14	1405		✓	W	3												
11 MW-6D	10/10/14	1110		✓	W	3												
12 MW-2S	10/10/14	1450		✓	W	3												
13 MW-6S	10/10/14	1405		✓	W	3												
14 MW-2D	10/10/14	1345		✓	W	3												

- Keys**
- Preservation Key:**
 A. H₂SO₄
 B. HCL
 C. HNO₃
 D. NaOH
 E. None
 F. Other: _____
 G. Other: _____
 H. Other: _____
- Container Information Key:**
 1. 40 ml Vial
 2. 1 L Amber
 3. 250 ml Plastic
 4. 500 ml Plastic
 5. Encore
 6. 2 oz. Glass
 7. 4 oz. Glass
 8. 8 oz. Glass
 9. Other: _____
 10. Other: _____
- Matrix Key:**
 SO - Soil
 W - Water
 T - Tissue
- SE - Sediment
 SL - Sludge
 A - Air
- NL - NAPL/Oil
 SW - Sample Wipe
 Other: _____

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Special Instructions/Comments: _____ Special QA/QC Instructions(✓): _____

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name: Test America	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: Maureen O'Brien	Signature: <i>[Signature]</i>	Printed Name:	Signature:	Printed Name:	Signature:	Printed Name: Sherrri Scott	Signature: <i>[Signature]</i>
Specify Turnaround Requirements: Standard	Sample Receipt: Condition/Cooler Temp: 32.9	Firm: ARCADIS	Date/Time: 10/16/14 0815	Firm/Courier:	Date/Time:	Firm/Courier: TA-C&I	Date/Time: 10/17/14 0915	Firm:	Date/Time:
Shipping Tracking #: 800081663 1850									

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order # 500-86239

Send Results to:	Contact & Company Name: Chris Kubacki AUS		Telephone: 414.276.7742		Preservative	B	E																														
	Address: 126 N. Jefferson St. #400		Fax: 414.276.7603		Filtered (✓)	-	✓																														
	City State Zip Milwaukee WI 53202		E-mail Address: chris.kubacki@arcadis-us.com		# of Containers	3	2																														
	Project Name/Location (City, State): MKC (Madison, WI)		Project #: W100368-0018		Container Information	1	9																														
Sampler's Printed Name: Nicole Dedei		Sampler's Signature: <i>[Signature]</i>		PARAMETER ANALYSIS & METHOD																																	
Sample ID		Collection		Type (✓)		Matrix		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">VOLs</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Method 8210B</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">PCBS</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Method 8210</div> </div>																													
		Date	Time	Comp	Grab																																
15	MW-3D3	10/14/14	1708		✓	W	9	1	REMARKS MS/MSD																												
16	MW-3D	10/16/14	1817		✓	W	3																														
17	MW-22D	10/16/14	1750		✓	W	3	2																													
18	DUP-1	10/16/14	-		✓	W	3	1																													
19	DUP-2	10/16/14	-		✓	W	3	1																													
Special Instructions/Comments:																			<input type="checkbox"/> Special QA/QC Instructions(✓):																		

Keys

Preservation Key:
A. H₂SO₄
B. HCL
C. HNO₃
D. NaOH
E. None
F. Other: _____
G. Other: _____
H. Other: _____

Container Information Key:
1. 40 ml Vial
2. 1 L Amber
3. 250 ml Plastic
4. 500 ml Plastic
5. Encore
6. 2 oz. Glass
7. 4 oz. Glass
8. 8 oz. Glass
9. Other: 250ml Amber
10. Other: _____

Matrix Key:
SO - Soil
W - Water
T - Tissue

SE - Sediment
SL - Sludge
A - Air

NL - NAPL/Oil
SW - Sample Wipe
Other: _____

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name: Jest America	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: Maureen O'Brien	Signature: <i>[Signature]</i>	Printed Name:	Signature:	Printed Name:	Signature:	Printed Name: Sherri Scott	Signature: <i>[Signature]</i>
Specify Turnaround Requirements: Standard	Sample Receipt: Condition/Cooler Temp: 39	Firm: ARCADIS	Date/Time: 10/16/14 1845	Firm/Courier:	Date/Time:	Firm/Courier:	Date/Time:	Firm: JA-CHE	Date/Time: 10/17/14 0915
Shipping Tracking #: 8660 8663 1858									

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-86239-1

Login Number: 86239

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-86424-1
Client Project/Site: MadisonKipp WI001368.0018.00002

For:
ARCADIS U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee, Wisconsin 53202

Attn: Chris Kubacki



Authorized for release by:
10/31/2014 10:48:54 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Job ID: 500-86424-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-86424-1

Comments

No additional comments.

Receipt

The samples were received on 10/21/2014 10:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8° C.

GC/MS VOA

Method(s) 8260B: The continuing calibration verification (CCV) and the laboratory control sample (LCS) associated with batches 260851, 261152 and 261271 recovered outside the control limit for one or more of the following analytes: Chloroethane, Methyl-tert-butyl ether and Bromomethane. The samples associated with the CCV and LCS standards were non-detects for the affected analytes; therefore, the data has been reported. The following samples are impacted: MP-14 (100-105) (500-86424-4), MP-14 (135-140) (500-86424-3), MP-14 (170-178) (500-86424-2), MP-14 (70-75) (500-86424-5), MW-22S (500-86424-9), MW-23D (500-86424-10), MW-23S (500-86424-11), MW-4D (500-86424-7), MW-4D2 (500-86424-8), MW-4S (500-86424-6), MW-5D3 (500-86424-12), Trip Blank (500-86424-1).

Method(s) 8260B: The laboratory control sample (LCS) for batch 261266 recovered outside control limits for the following analytes: Naphthalene, 1,1,1,2-Tetrachloroethane, 1,1,2-Trichloroethane and 1,2-Dibromo-3-chloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: MP-14 (170-178) (500-86424-2). Elevated reporting limits (RLs) are provided.

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

GC Semi VOA

Method(s) 8082: The continuing calibration verification (CCV) associated with batch 261299 recovered above the upper control limit for pcb-1260 on the primary column (Rtx-Clp2). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-22S (500-86424-9), MW-23D (500-86424-10), MW-23S (500-86424-11).

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

Field Service / Mobile Lab

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

Organic Prep

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

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-86424-1

No Detections.

Client Sample ID: MP-14 (170-178)

Lab Sample ID: 500-86424-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	24		2.0	0.24	ug/L	2		8260B	Total/NA
Trichloroethene	46		1.0	0.38	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	890		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: MP-14 (135-140)

Lab Sample ID: 500-86424-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	8.1		1.0	0.12	ug/L	1		8260B	Total/NA
Trichloroethene	16		0.50	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	190		10	1.7	ug/L	10		8260B	Total/NA

Client Sample ID: MP-14 (100-105)

Lab Sample ID: 500-86424-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.0		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MP-14 (70-75)

Lab Sample ID: 500-86424-5

No Detections.

Client Sample ID: MW-4S

Lab Sample ID: 500-86424-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.4		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-4D

Lab Sample ID: 500-86424-7

No Detections.

Client Sample ID: MW-4D2

Lab Sample ID: 500-86424-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.0		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-22S

Lab Sample ID: 500-86424-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.75	J	1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	58		1.0	0.12	ug/L	1		8260B	Total/NA
Tetrachloroethene	61		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	7.1		0.50	0.19	ug/L	1		8260B	Total/NA
PCB-1016	0.89		0.38	0.063	ug/L	1		8082	Dissolved

Client Sample ID: MW-23D

Lab Sample ID: 500-86424-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.27	J	0.50	0.19	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MW-23D (Continued)

Lab Sample ID: 500-86424-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene - DL	190		10	1.7	ug/L	10		8260B	Total/NA

Client Sample ID: MW-23S

Lab Sample ID: 500-86424-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	19		1.0	0.12	ug/L	1		8260B	Total/NA
Tetrachloroethene	190		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	11		0.50	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: MW-5D3

Lab Sample ID: 500-86424-12

No Detections.

Client Sample ID: MW-25D

Lab Sample ID: 500-86424-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.54	J	1.0	0.17	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-86424-1	Trip Blank	Water	10/17/14 00:00	10/21/14 10:20
500-86424-2	MP-14 (170-178)	Water	10/17/14 10:05	10/21/14 10:20
500-86424-3	MP-14 (135-140)	Water	10/17/14 10:20	10/21/14 10:20
500-86424-4	MP-14 (100-105)	Water	10/17/14 10:43	10/21/14 10:20
500-86424-5	MP-14 (70-75)	Water	10/17/14 11:00	10/21/14 10:20
500-86424-6	MW-4S	Water	10/17/14 10:00	10/21/14 10:20
500-86424-7	MW-4D	Water	10/17/14 11:20	10/21/14 10:20
500-86424-8	MW-4D2	Water	10/17/14 13:20	10/21/14 10:20
500-86424-9	MW-22S	Water	10/20/14 11:00	10/21/14 10:20
500-86424-10	MW-23D	Water	10/20/14 14:55	10/21/14 10:20
500-86424-11	MW-23S	Water	10/20/14 17:00	10/21/14 10:20
500-86424-12	MW-5D3	Water	10/20/14 15:15	10/21/14 10:20
500-86424-13	MW-25D	Water	10/20/14 17:45	10/21/14 10:20



Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-86424-1

Date Collected: 10/17/14 00:00

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/24/14 17:57	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/24/14 17:57	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/24/14 17:57	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 17:57	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/24/14 17:57	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/24/14 17:57	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/24/14 17:57	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/24/14 17:57	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/24/14 17:57	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/24/14 17:57	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 17:57	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/24/14 17:57	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/24/14 17:57	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/24/14 17:57	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 17:57	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/24/14 17:57	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/24/14 17:57	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 17:57	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/24/14 17:57	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 17:57	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/24/14 17:57	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/24/14 17:57	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/24/14 17:57	1
Benzene	<0.074		0.50	0.074	ug/L			10/24/14 17:57	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/24/14 17:57	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/24/14 17:57	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/24/14 17:57	1
Bromoform	<0.28		1.0	0.28	ug/L			10/24/14 17:57	1
Bromomethane	<0.31 *		1.0	0.31	ug/L			10/24/14 17:57	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/24/14 17:57	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/24/14 17:57	1
Chloroethane	<0.34 *		1.0	0.34	ug/L			10/24/14 17:57	1
Chloroform	<0.20		1.0	0.20	ug/L			10/24/14 17:57	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/24/14 17:57	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/24/14 17:57	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/24/14 17:57	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/24/14 17:57	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/24/14 17:57	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/24/14 17:57	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/24/14 17:57	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/24/14 17:57	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/24/14 17:57	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 17:57	1
Methyl tert-butyl ether	<0.24 *		1.0	0.24	ug/L			10/24/14 17:57	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/24/14 17:57	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/24/14 17:57	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 17:57	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 17:57	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/24/14 17:57	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-86424-1

Date Collected: 10/17/14 00:00

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/24/14 17:57	1
Styrene	<0.10		1.0	0.10	ug/L			10/24/14 17:57	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 17:57	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/24/14 17:57	1
Toluene	<0.11		0.50	0.11	ug/L			10/24/14 17:57	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/14 17:57	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/24/14 17:57	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/24/14 17:57	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/24/14 17:57	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/24/14 17:57	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/24/14 17:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 125		10/24/14 17:57	1
4-Bromofluorobenzene (Surr)	79		75 - 120		10/24/14 17:57	1
Dibromofluoromethane	99		75 - 120		10/24/14 17:57	1
Toluene-d8 (Surr)	98		75 - 120		10/24/14 17:57	1

Client Sample ID: MP-14 (170-178)

Lab Sample ID: 500-86424-2

Date Collected: 10/17/14 10:05

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			10/24/14 18:21	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			10/24/14 18:21	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			10/24/14 18:21	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			10/24/14 18:21	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			10/24/14 18:21	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			10/24/14 18:21	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			10/24/14 18:21	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			10/24/14 18:21	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			10/24/14 18:21	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			10/24/14 18:21	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			10/24/14 18:21	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			10/24/14 18:21	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			10/24/14 18:21	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			10/24/14 18:21	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			10/24/14 18:21	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			10/24/14 18:21	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			10/24/14 18:21	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/24/14 18:21	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			10/24/14 18:21	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			10/24/14 18:21	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			10/24/14 18:21	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			10/24/14 18:21	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			10/24/14 18:21	2
Benzene	<0.15		1.0	0.15	ug/L			10/24/14 18:21	2
Bromobenzene	<0.50		2.0	0.50	ug/L			10/24/14 18:21	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			10/24/14 18:21	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MP-14 (170-178)

Lab Sample ID: 500-86424-2

Date Collected: 10/17/14 10:05

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.34		2.0	0.34	ug/L			10/24/14 18:21	2
Bromoform	<0.56		2.0	0.56	ug/L			10/24/14 18:21	2
Bromomethane	<0.62	*	2.0	0.62	ug/L			10/24/14 18:21	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			10/24/14 18:21	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			10/24/14 18:21	2
Chloroethane	<0.68	*	2.0	0.68	ug/L			10/24/14 18:21	2
Chloroform	<0.40		2.0	0.40	ug/L			10/24/14 18:21	2
Chloromethane	<0.36		2.0	0.36	ug/L			10/24/14 18:21	2
cis-1,2-Dichloroethene	24		2.0	0.24	ug/L			10/24/14 18:21	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			10/24/14 18:21	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			10/24/14 18:21	2
Dibromomethane	<0.66		2.0	0.66	ug/L			10/24/14 18:21	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			10/24/14 18:21	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			10/24/14 18:21	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			10/24/14 18:21	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			10/24/14 18:21	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			10/24/14 18:21	2
Methyl tert-butyl ether	<0.48	*	2.0	0.48	ug/L			10/24/14 18:21	2
Methylene Chloride	<1.4		10	1.4	ug/L			10/24/14 18:21	2
Naphthalene	<0.32		2.0	0.32	ug/L			10/24/14 18:21	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			10/24/14 18:21	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			10/24/14 18:21	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			10/24/14 18:21	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			10/24/14 18:21	2
Styrene	<0.20		2.0	0.20	ug/L			10/24/14 18:21	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			10/24/14 18:21	2
Toluene	<0.22		1.0	0.22	ug/L			10/24/14 18:21	2
trans-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			10/24/14 18:21	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			10/24/14 18:21	2
Trichloroethene	46		1.0	0.38	ug/L			10/24/14 18:21	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			10/24/14 18:21	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			10/24/14 18:21	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			10/24/14 18:21	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		75 - 125		10/24/14 18:21	2
4-Bromofluorobenzene (Surr)	78		75 - 120		10/24/14 18:21	2
Dibromofluoromethane	99		75 - 120		10/24/14 18:21	2
Toluene-d8 (Surr)	95		75 - 120		10/24/14 18:21	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	890		20	3.4	ug/L			10/24/14 18:46	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		75 - 125		10/24/14 18:46	20
4-Bromofluorobenzene (Surr)	77		75 - 120		10/24/14 18:46	20
Dibromofluoromethane	99		75 - 120		10/24/14 18:46	20
Toluene-d8 (Surr)	97		75 - 120		10/24/14 18:46	20

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MP-14 (135-140)

Lab Sample ID: 500-86424-3

Date Collected: 10/17/14 10:20

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/24/14 19:11	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/24/14 19:11	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/24/14 19:11	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 19:11	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/24/14 19:11	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/24/14 19:11	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/24/14 19:11	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/24/14 19:11	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/24/14 19:11	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/24/14 19:11	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 19:11	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/24/14 19:11	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/24/14 19:11	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/24/14 19:11	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 19:11	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/24/14 19:11	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/24/14 19:11	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 19:11	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/24/14 19:11	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 19:11	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/24/14 19:11	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/24/14 19:11	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/24/14 19:11	1
Benzene	<0.074		0.50	0.074	ug/L			10/24/14 19:11	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/24/14 19:11	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/24/14 19:11	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/24/14 19:11	1
Bromoform	<0.28		1.0	0.28	ug/L			10/24/14 19:11	1
Bromomethane	<0.31 *		1.0	0.31	ug/L			10/24/14 19:11	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/24/14 19:11	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/24/14 19:11	1
Chloroethane	<0.34 *		1.0	0.34	ug/L			10/24/14 19:11	1
Chloroform	<0.20		1.0	0.20	ug/L			10/24/14 19:11	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/24/14 19:11	1
cis-1,2-Dichloroethene	8.1		1.0	0.12	ug/L			10/24/14 19:11	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/24/14 19:11	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/24/14 19:11	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/24/14 19:11	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/24/14 19:11	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/24/14 19:11	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/24/14 19:11	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/24/14 19:11	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 19:11	1
Methyl tert-butyl ether	<0.24 *		1.0	0.24	ug/L			10/24/14 19:11	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/24/14 19:11	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/24/14 19:11	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 19:11	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 19:11	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/24/14 19:11	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MP-14 (135-140)

Lab Sample ID: 500-86424-3

Date Collected: 10/17/14 10:20

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/24/14 19:11	1
Styrene	<0.10		1.0	0.10	ug/L			10/24/14 19:11	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 19:11	1
Toluene	<0.11		0.50	0.11	ug/L			10/24/14 19:11	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/14 19:11	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/24/14 19:11	1
Trichloroethene	16		0.50	0.19	ug/L			10/24/14 19:11	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/24/14 19:11	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/24/14 19:11	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/24/14 19:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 125		10/24/14 19:11	1
4-Bromofluorobenzene (Surr)	79		75 - 120		10/24/14 19:11	1
Dibromofluoromethane	100		75 - 120		10/24/14 19:11	1
Toluene-d8 (Surr)	96		75 - 120		10/24/14 19:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	190		10	1.7	ug/L			10/28/14 11:24	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125		10/28/14 11:24	10
4-Bromofluorobenzene (Surr)	81		75 - 120		10/28/14 11:24	10
Dibromofluoromethane	102		75 - 120		10/28/14 11:24	10
Toluene-d8 (Surr)	97		75 - 120		10/28/14 11:24	10

Client Sample ID: MP-14 (100-105)

Lab Sample ID: 500-86424-4

Date Collected: 10/17/14 10:43

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/24/14 19:36	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/24/14 19:36	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/24/14 19:36	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 19:36	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/24/14 19:36	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/24/14 19:36	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/24/14 19:36	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/24/14 19:36	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/24/14 19:36	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/24/14 19:36	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 19:36	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/24/14 19:36	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/24/14 19:36	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/24/14 19:36	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 19:36	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/24/14 19:36	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/24/14 19:36	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MP-14 (100-105)

Lab Sample ID: 500-86424-4

Date Collected: 10/17/14 10:43

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 19:36	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/24/14 19:36	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 19:36	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/24/14 19:36	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/24/14 19:36	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/24/14 19:36	1
Benzene	<0.074		0.50	0.074	ug/L			10/24/14 19:36	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/24/14 19:36	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/24/14 19:36	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/24/14 19:36	1
Bromoform	<0.28		1.0	0.28	ug/L			10/24/14 19:36	1
Bromomethane	<0.31 *		1.0	0.31	ug/L			10/24/14 19:36	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/24/14 19:36	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/24/14 19:36	1
Chloroethane	<0.34 *		1.0	0.34	ug/L			10/24/14 19:36	1
Chloroform	<0.20		1.0	0.20	ug/L			10/24/14 19:36	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/24/14 19:36	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/24/14 19:36	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/24/14 19:36	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/24/14 19:36	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/24/14 19:36	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/24/14 19:36	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/24/14 19:36	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/24/14 19:36	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/24/14 19:36	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 19:36	1
Methyl tert-butyl ether	<0.24 *		1.0	0.24	ug/L			10/24/14 19:36	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/24/14 19:36	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/24/14 19:36	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 19:36	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 19:36	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/24/14 19:36	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/24/14 19:36	1
Styrene	<0.10		1.0	0.10	ug/L			10/24/14 19:36	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 19:36	1
Tetrachloroethene	1.0		1.0	0.17	ug/L			10/24/14 19:36	1
Toluene	<0.11		0.50	0.11	ug/L			10/24/14 19:36	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/14 19:36	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/24/14 19:36	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/24/14 19:36	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/24/14 19:36	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/24/14 19:36	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/24/14 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 125		10/24/14 19:36	1
4-Bromofluorobenzene (Surr)	76		75 - 120		10/24/14 19:36	1
Dibromofluoromethane	100		75 - 120		10/24/14 19:36	1
Toluene-d8 (Surr)	97		75 - 120		10/24/14 19:36	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MP-14 (70-75)

Lab Sample ID: 500-86424-5

Date Collected: 10/17/14 11:00

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/24/14 20:00	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/24/14 20:00	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/24/14 20:00	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 20:00	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/24/14 20:00	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/24/14 20:00	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/24/14 20:00	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/24/14 20:00	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/24/14 20:00	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/24/14 20:00	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 20:00	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/24/14 20:00	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/24/14 20:00	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/24/14 20:00	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 20:00	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/24/14 20:00	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/24/14 20:00	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 20:00	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/24/14 20:00	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 20:00	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/24/14 20:00	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/24/14 20:00	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/24/14 20:00	1
Benzene	<0.074		0.50	0.074	ug/L			10/24/14 20:00	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/24/14 20:00	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/24/14 20:00	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/24/14 20:00	1
Bromoform	<0.28		1.0	0.28	ug/L			10/24/14 20:00	1
Bromomethane	<0.31 *		1.0	0.31	ug/L			10/24/14 20:00	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/24/14 20:00	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/24/14 20:00	1
Chloroethane	<0.34 *		1.0	0.34	ug/L			10/24/14 20:00	1
Chloroform	<0.20		1.0	0.20	ug/L			10/24/14 20:00	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/24/14 20:00	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/24/14 20:00	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/24/14 20:00	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/24/14 20:00	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/24/14 20:00	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/24/14 20:00	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/24/14 20:00	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/24/14 20:00	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/24/14 20:00	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 20:00	1
Methyl tert-butyl ether	<0.24 *		1.0	0.24	ug/L			10/24/14 20:00	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/24/14 20:00	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/24/14 20:00	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 20:00	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 20:00	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/24/14 20:00	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MP-14 (70-75)

Lab Sample ID: 500-86424-5

Date Collected: 10/17/14 11:00

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/24/14 20:00	1
Styrene	<0.10		1.0	0.10	ug/L			10/24/14 20:00	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 20:00	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/24/14 20:00	1
Toluene	<0.11		0.50	0.11	ug/L			10/24/14 20:00	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/14 20:00	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/24/14 20:00	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/24/14 20:00	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/24/14 20:00	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/24/14 20:00	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/24/14 20:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 125					10/24/14 20:00	1
4-Bromofluorobenzene (Surr)	77		75 - 120					10/24/14 20:00	1
Dibromofluoromethane	101		75 - 120					10/24/14 20:00	1
Toluene-d8 (Surr)	97		75 - 120					10/24/14 20:00	1

Client Sample ID: MW-4S

Lab Sample ID: 500-86424-6

Date Collected: 10/17/14 10:00

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/24/14 20:25	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/24/14 20:25	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/24/14 20:25	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 20:25	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/24/14 20:25	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/24/14 20:25	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/24/14 20:25	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/24/14 20:25	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/24/14 20:25	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/24/14 20:25	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 20:25	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/24/14 20:25	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/24/14 20:25	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/24/14 20:25	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 20:25	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/24/14 20:25	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/24/14 20:25	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 20:25	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/24/14 20:25	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 20:25	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/24/14 20:25	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/24/14 20:25	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/24/14 20:25	1
Benzene	<0.074		0.50	0.074	ug/L			10/24/14 20:25	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/24/14 20:25	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/24/14 20:25	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MW-4S

Lab Sample ID: 500-86424-6

Date Collected: 10/17/14 10:00

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/24/14 20:25	1
Bromoform	<0.28		1.0	0.28	ug/L			10/24/14 20:25	1
Bromomethane	<0.31	*	1.0	0.31	ug/L			10/24/14 20:25	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/24/14 20:25	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/24/14 20:25	1
Chloroethane	<0.34	*	1.0	0.34	ug/L			10/24/14 20:25	1
Chloroform	<0.20		1.0	0.20	ug/L			10/24/14 20:25	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/24/14 20:25	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/24/14 20:25	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/24/14 20:25	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/24/14 20:25	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/24/14 20:25	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/24/14 20:25	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/24/14 20:25	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/24/14 20:25	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/24/14 20:25	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 20:25	1
Methyl tert-butyl ether	<0.24	*	1.0	0.24	ug/L			10/24/14 20:25	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/24/14 20:25	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/24/14 20:25	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 20:25	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 20:25	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/24/14 20:25	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/24/14 20:25	1
Styrene	<0.10		1.0	0.10	ug/L			10/24/14 20:25	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 20:25	1
Tetrachloroethene	1.4		1.0	0.17	ug/L			10/24/14 20:25	1
Toluene	<0.11		0.50	0.11	ug/L			10/24/14 20:25	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/14 20:25	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/24/14 20:25	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/24/14 20:25	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/24/14 20:25	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/24/14 20:25	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/24/14 20:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 125		10/24/14 20:25	1
4-Bromofluorobenzene (Surr)	77		75 - 120		10/24/14 20:25	1
Dibromofluoromethane	99		75 - 120		10/24/14 20:25	1
Toluene-d8 (Surr)	99		75 - 120		10/24/14 20:25	1

Client Sample ID: MW-4D

Lab Sample ID: 500-86424-7

Date Collected: 10/17/14 11:20

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/24/14 20:50	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/24/14 20:50	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/24/14 20:50	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MW-4D

Lab Sample ID: 500-86424-7

Date Collected: 10/17/14 11:20

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 20:50	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/24/14 20:50	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/24/14 20:50	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/24/14 20:50	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/24/14 20:50	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/24/14 20:50	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/24/14 20:50	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 20:50	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/24/14 20:50	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/24/14 20:50	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/24/14 20:50	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 20:50	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/24/14 20:50	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/24/14 20:50	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 20:50	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/24/14 20:50	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 20:50	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/24/14 20:50	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/24/14 20:50	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/24/14 20:50	1
Benzene	<0.074		0.50	0.074	ug/L			10/24/14 20:50	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/24/14 20:50	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/24/14 20:50	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/24/14 20:50	1
Bromoform	<0.28		1.0	0.28	ug/L			10/24/14 20:50	1
Bromomethane	<0.31 *		1.0	0.31	ug/L			10/24/14 20:50	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/24/14 20:50	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/24/14 20:50	1
Chloroethane	<0.34 *		1.0	0.34	ug/L			10/24/14 20:50	1
Chloroform	<0.20		1.0	0.20	ug/L			10/24/14 20:50	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/24/14 20:50	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/24/14 20:50	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/24/14 20:50	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/24/14 20:50	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/24/14 20:50	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/24/14 20:50	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/24/14 20:50	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/24/14 20:50	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/24/14 20:50	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 20:50	1
Methyl tert-butyl ether	<0.24 *		1.0	0.24	ug/L			10/24/14 20:50	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/24/14 20:50	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/24/14 20:50	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 20:50	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 20:50	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/24/14 20:50	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/24/14 20:50	1
Styrene	<0.10		1.0	0.10	ug/L			10/24/14 20:50	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 20:50	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MW-4D

Lab Sample ID: 500-86424-7

Date Collected: 10/17/14 11:20

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/24/14 20:50	1
Toluene	<0.11		0.50	0.11	ug/L			10/24/14 20:50	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/14 20:50	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/24/14 20:50	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/24/14 20:50	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/24/14 20:50	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/24/14 20:50	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/24/14 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		75 - 125					10/24/14 20:50	1
4-Bromofluorobenzene (Surr)	77		75 - 120					10/24/14 20:50	1
Dibromofluoromethane	99		75 - 120					10/24/14 20:50	1
Toluene-d8 (Surr)	97		75 - 120					10/24/14 20:50	1

Client Sample ID: MW-4D2

Lab Sample ID: 500-86424-8

Date Collected: 10/17/14 13:20

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/24/14 21:15	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/24/14 21:15	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/24/14 21:15	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 21:15	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/24/14 21:15	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/24/14 21:15	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/24/14 21:15	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/24/14 21:15	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/24/14 21:15	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/24/14 21:15	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 21:15	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/24/14 21:15	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/24/14 21:15	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/24/14 21:15	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 21:15	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/24/14 21:15	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/24/14 21:15	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 21:15	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/24/14 21:15	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 21:15	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/24/14 21:15	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/24/14 21:15	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/24/14 21:15	1
Benzene	<0.074		0.50	0.074	ug/L			10/24/14 21:15	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/24/14 21:15	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/24/14 21:15	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/24/14 21:15	1
Bromoform	<0.28		1.0	0.28	ug/L			10/24/14 21:15	1
Bromomethane	<0.31	*	1.0	0.31	ug/L			10/24/14 21:15	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MW-4D2

Lab Sample ID: 500-86424-8

Date Collected: 10/17/14 13:20

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/24/14 21:15	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/24/14 21:15	1
Chloroethane	<0.34	*	1.0	0.34	ug/L			10/24/14 21:15	1
Chloroform	<0.20		1.0	0.20	ug/L			10/24/14 21:15	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/24/14 21:15	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/24/14 21:15	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/24/14 21:15	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/24/14 21:15	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/24/14 21:15	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/24/14 21:15	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/24/14 21:15	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/24/14 21:15	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/24/14 21:15	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 21:15	1
Methyl tert-butyl ether	<0.24	*	1.0	0.24	ug/L			10/24/14 21:15	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/24/14 21:15	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/24/14 21:15	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 21:15	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 21:15	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/24/14 21:15	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/24/14 21:15	1
Styrene	<0.10		1.0	0.10	ug/L			10/24/14 21:15	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 21:15	1
Tetrachloroethene	1.0		1.0	0.17	ug/L			10/24/14 21:15	1
Toluene	<0.11		0.50	0.11	ug/L			10/24/14 21:15	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/14 21:15	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/24/14 21:15	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/24/14 21:15	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/24/14 21:15	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/24/14 21:15	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/24/14 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 125		10/24/14 21:15	1
4-Bromofluorobenzene (Surr)	76		75 - 120		10/24/14 21:15	1
Dibromofluoromethane	101		75 - 120		10/24/14 21:15	1
Toluene-d8 (Surr)	97		75 - 120		10/24/14 21:15	1

Client Sample ID: MW-22S

Lab Sample ID: 500-86424-9

Date Collected: 10/20/14 11:00

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/24/14 21:40	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/24/14 21:40	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/24/14 21:40	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 21:40	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/24/14 21:40	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/24/14 21:40	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MW-22S

Lab Sample ID: 500-86424-9

Date Collected: 10/20/14 11:00

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/24/14 21:40	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/24/14 21:40	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/24/14 21:40	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/24/14 21:40	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 21:40	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/24/14 21:40	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/24/14 21:40	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/24/14 21:40	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 21:40	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/24/14 21:40	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/24/14 21:40	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 21:40	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/24/14 21:40	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 21:40	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/24/14 21:40	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/24/14 21:40	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/24/14 21:40	1
Benzene	<0.074		0.50	0.074	ug/L			10/24/14 21:40	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/24/14 21:40	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/24/14 21:40	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/24/14 21:40	1
Bromoform	<0.28		1.0	0.28	ug/L			10/24/14 21:40	1
Bromomethane	<0.31 *		1.0	0.31	ug/L			10/24/14 21:40	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/24/14 21:40	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/24/14 21:40	1
Chloroethane	<0.34 *		1.0	0.34	ug/L			10/24/14 21:40	1
Chloroform	0.75 J		1.0	0.20	ug/L			10/24/14 21:40	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/24/14 21:40	1
cis-1,2-Dichloroethene	58		1.0	0.12	ug/L			10/24/14 21:40	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/24/14 21:40	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/24/14 21:40	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/24/14 21:40	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/24/14 21:40	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/24/14 21:40	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/24/14 21:40	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/24/14 21:40	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 21:40	1
Methyl tert-butyl ether	<0.24 *		1.0	0.24	ug/L			10/24/14 21:40	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/24/14 21:40	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/24/14 21:40	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 21:40	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 21:40	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/24/14 21:40	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/24/14 21:40	1
Styrene	<0.10		1.0	0.10	ug/L			10/24/14 21:40	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 21:40	1
Tetrachloroethene	61		1.0	0.17	ug/L			10/24/14 21:40	1
Toluene	<0.11		0.50	0.11	ug/L			10/24/14 21:40	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/14 21:40	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MW-22S

Lab Sample ID: 500-86424-9

Date Collected: 10/20/14 11:00

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/24/14 21:40	1
Trichloroethene	7.1		0.50	0.19	ug/L			10/24/14 21:40	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/24/14 21:40	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/24/14 21:40	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/24/14 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		75 - 125					10/24/14 21:40	1
4-Bromofluorobenzene (Surr)	76		75 - 120					10/24/14 21:40	1
Dibromofluoromethane	98		75 - 120					10/24/14 21:40	1
Toluene-d8 (Surr)	96		75 - 120					10/24/14 21:40	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	0.89		0.38	0.063	ug/L		10/22/14 09:27	10/28/14 11:18	1
PCB-1221	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 11:18	1
PCB-1232	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 11:18	1
PCB-1242	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 11:18	1
PCB-1248	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 11:18	1
PCB-1254	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 11:18	1
PCB-1260	<0.066		0.38	0.066	ug/L		10/22/14 09:27	10/28/14 11:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66		50 - 120				10/22/14 09:27	10/28/14 11:18	1
DCB Decachlorobiphenyl	78		29 - 126				10/22/14 09:27	10/28/14 11:18	1

Client Sample ID: MW-23D

Lab Sample ID: 500-86424-10

Date Collected: 10/20/14 14:55

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/27/14 12:54	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/27/14 12:54	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/27/14 12:54	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/27/14 12:54	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/27/14 12:54	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/27/14 12:54	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/27/14 12:54	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/27/14 12:54	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/27/14 12:54	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/27/14 12:54	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/27/14 12:54	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/27/14 12:54	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/27/14 12:54	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/27/14 12:54	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/27/14 12:54	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/27/14 12:54	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/27/14 12:54	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/27/14 12:54	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MW-23D

Lab Sample ID: 500-86424-10

Date Collected: 10/20/14 14:55

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/27/14 12:54	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/27/14 12:54	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/27/14 12:54	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/27/14 12:54	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/27/14 12:54	1
Benzene	<0.074		0.50	0.074	ug/L			10/27/14 12:54	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/27/14 12:54	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/27/14 12:54	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/27/14 12:54	1
Bromoform	<0.28		1.0	0.28	ug/L			10/27/14 12:54	1
Bromomethane	<0.31 *		1.0	0.31	ug/L			10/27/14 12:54	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/27/14 12:54	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/27/14 12:54	1
Chloroethane	<0.34 *		1.0	0.34	ug/L			10/27/14 12:54	1
Chloroform	<0.20		1.0	0.20	ug/L			10/27/14 12:54	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/27/14 12:54	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/27/14 12:54	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/27/14 12:54	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/27/14 12:54	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/27/14 12:54	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/27/14 12:54	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/27/14 12:54	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/27/14 12:54	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/27/14 12:54	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/27/14 12:54	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/27/14 12:54	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/27/14 12:54	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/27/14 12:54	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/27/14 12:54	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/27/14 12:54	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/27/14 12:54	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/27/14 12:54	1
Styrene	<0.10		1.0	0.10	ug/L			10/27/14 12:54	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/27/14 12:54	1
Toluene	<0.11		0.50	0.11	ug/L			10/27/14 12:54	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/27/14 12:54	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/27/14 12:54	1
Trichloroethene	0.27 J		0.50	0.19	ug/L			10/27/14 12:54	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/27/14 12:54	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/27/14 12:54	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/27/14 12:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 125		10/27/14 12:54	1
4-Bromofluorobenzene (Surr)	84		75 - 120		10/27/14 12:54	1
Dibromofluoromethane	103		75 - 120		10/27/14 12:54	1
Toluene-d8 (Surr)	97		75 - 120		10/27/14 12:54	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MW-23D

Lab Sample ID: 500-86424-10

Date Collected: 10/20/14 14:55

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	190		10	1.7	ug/L			10/27/14 13:19	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 125					10/27/14 13:19	10
4-Bromofluorobenzene (Surr)	82		75 - 120					10/27/14 13:19	10
Dibromofluoromethane	106		75 - 120					10/27/14 13:19	10
Toluene-d8 (Surr)	98		75 - 120					10/27/14 13:19	10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.063		0.38	0.063	ug/L		10/22/14 09:27	10/28/14 11:33	1
PCB-1221	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 11:33	1
PCB-1232	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 11:33	1
PCB-1242	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 11:33	1
PCB-1248	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 11:33	1
PCB-1254	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 11:33	1
PCB-1260	<0.066		0.38	0.066	ug/L		10/22/14 09:27	10/28/14 11:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	85		50 - 120				10/22/14 09:27	10/28/14 11:33	1
DCB Decachlorobiphenyl	79		29 - 126				10/22/14 09:27	10/28/14 11:33	1

Client Sample ID: MW-23S

Lab Sample ID: 500-86424-11

Date Collected: 10/20/14 17:00

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/27/14 13:44	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/27/14 13:44	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/27/14 13:44	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/27/14 13:44	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/27/14 13:44	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/27/14 13:44	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/27/14 13:44	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/27/14 13:44	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/27/14 13:44	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/27/14 13:44	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/27/14 13:44	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/27/14 13:44	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/27/14 13:44	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/27/14 13:44	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/27/14 13:44	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/27/14 13:44	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/27/14 13:44	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/27/14 13:44	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/27/14 13:44	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/27/14 13:44	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/27/14 13:44	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/27/14 13:44	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MW-23S

Lab Sample ID: 500-86424-11

Date Collected: 10/20/14 17:00

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/27/14 13:44	1
Benzene	<0.074		0.50	0.074	ug/L			10/27/14 13:44	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/27/14 13:44	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/27/14 13:44	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/27/14 13:44	1
Bromoform	<0.28		1.0	0.28	ug/L			10/27/14 13:44	1
Bromomethane	<0.31	*	1.0	0.31	ug/L			10/27/14 13:44	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/27/14 13:44	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/27/14 13:44	1
Chloroethane	<0.34	*	1.0	0.34	ug/L			10/27/14 13:44	1
Chloroform	<0.20		1.0	0.20	ug/L			10/27/14 13:44	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/27/14 13:44	1
cis-1,2-Dichloroethene	19		1.0	0.12	ug/L			10/27/14 13:44	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/27/14 13:44	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/27/14 13:44	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/27/14 13:44	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/27/14 13:44	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/27/14 13:44	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/27/14 13:44	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/27/14 13:44	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/27/14 13:44	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/27/14 13:44	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/27/14 13:44	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/27/14 13:44	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/27/14 13:44	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/27/14 13:44	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/27/14 13:44	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/27/14 13:44	1
Styrene	<0.10		1.0	0.10	ug/L			10/27/14 13:44	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/27/14 13:44	1
Tetrachloroethene	190		1.0	0.17	ug/L			10/27/14 13:44	1
Toluene	<0.11		0.50	0.11	ug/L			10/27/14 13:44	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/27/14 13:44	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/27/14 13:44	1
Trichloroethene	11		0.50	0.19	ug/L			10/27/14 13:44	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/27/14 13:44	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/27/14 13:44	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/27/14 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 125		10/27/14 13:44	1
4-Bromofluorobenzene (Surr)	81		75 - 120		10/27/14 13:44	1
Dibromofluoromethane	101		75 - 120		10/27/14 13:44	1
Toluene-d8 (Surr)	96		75 - 120		10/27/14 13:44	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.063		0.38	0.063	ug/L		10/22/14 09:27	10/28/14 11:47	1
PCB-1221	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 11:47	1
PCB-1232	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 11:47	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MW-23S

Lab Sample ID: 500-86424-11

Date Collected: 10/20/14 17:00

Matrix: Water

Date Received: 10/21/14 10:20

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 11:47	1
PCB-1248	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 11:47	1
PCB-1254	<0.19		0.38	0.19	ug/L		10/22/14 09:27	10/28/14 11:47	1
PCB-1260	<0.066		0.38	0.066	ug/L		10/22/14 09:27	10/28/14 11:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		50 - 120				10/22/14 09:27	10/28/14 11:47	1
DCB Decachlorobiphenyl	87		29 - 126				10/22/14 09:27	10/28/14 11:47	1

Client Sample ID: MW-5D3

Lab Sample ID: 500-86424-12

Date Collected: 10/20/14 15:15

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/27/14 14:34	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/27/14 14:34	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/27/14 14:34	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/27/14 14:34	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/27/14 14:34	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/27/14 14:34	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/27/14 14:34	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/27/14 14:34	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/27/14 14:34	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/27/14 14:34	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/27/14 14:34	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/27/14 14:34	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/27/14 14:34	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/27/14 14:34	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/27/14 14:34	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/27/14 14:34	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/27/14 14:34	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/27/14 14:34	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/27/14 14:34	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/27/14 14:34	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/27/14 14:34	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/27/14 14:34	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/27/14 14:34	1
Benzene	<0.074		0.50	0.074	ug/L			10/27/14 14:34	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/27/14 14:34	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/27/14 14:34	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/27/14 14:34	1
Bromoform	<0.28		1.0	0.28	ug/L			10/27/14 14:34	1
Bromomethane	<0.31 *		1.0	0.31	ug/L			10/27/14 14:34	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/27/14 14:34	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/27/14 14:34	1
Chloroethane	<0.34 *		1.0	0.34	ug/L			10/27/14 14:34	1
Chloroform	<0.20		1.0	0.20	ug/L			10/27/14 14:34	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/27/14 14:34	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/27/14 14:34	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MW-5D3

Lab Sample ID: 500-86424-12

Date Collected: 10/20/14 15:15

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/27/14 14:34	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/27/14 14:34	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/27/14 14:34	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/27/14 14:34	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/27/14 14:34	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/27/14 14:34	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/27/14 14:34	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/27/14 14:34	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/27/14 14:34	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/27/14 14:34	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/27/14 14:34	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/27/14 14:34	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/27/14 14:34	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/27/14 14:34	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/27/14 14:34	1
Styrene	<0.10		1.0	0.10	ug/L			10/27/14 14:34	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/27/14 14:34	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/27/14 14:34	1
Toluene	<0.11		0.50	0.11	ug/L			10/27/14 14:34	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/27/14 14:34	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/27/14 14:34	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/27/14 14:34	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/27/14 14:34	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/27/14 14:34	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/27/14 14:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 125		10/27/14 14:34	1
4-Bromofluorobenzene (Surr)	83		75 - 120		10/27/14 14:34	1
Dibromofluoromethane	106		75 - 120		10/27/14 14:34	1
Toluene-d8 (Surr)	97		75 - 120		10/27/14 14:34	1

Client Sample ID: MW-25D

Lab Sample ID: 500-86424-13

Date Collected: 10/20/14 17:45

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25	*	1.0	0.25	ug/L			10/28/14 16:26	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/28/14 16:26	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/28/14 16:26	1
1,1,2-Trichloroethane	<0.28	*	1.0	0.28	ug/L			10/28/14 16:26	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/28/14 16:26	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/28/14 16:26	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/28/14 16:26	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/28/14 16:26	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/28/14 16:26	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/28/14 16:26	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/28/14 16:26	1
1,2-Dibromo-3-Chloropropane	<0.87	*	2.0	0.87	ug/L			10/28/14 16:26	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MW-25D

Lab Sample ID: 500-86424-13

Date Collected: 10/20/14 17:45

Matrix: Water

Date Received: 10/21/14 10:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/28/14 16:26	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/28/14 16:26	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/28/14 16:26	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/28/14 16:26	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/28/14 16:26	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/28/14 16:26	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/28/14 16:26	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/28/14 16:26	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/28/14 16:26	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/28/14 16:26	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/28/14 16:26	1
Benzene	<0.074		0.50	0.074	ug/L			10/28/14 16:26	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/28/14 16:26	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/28/14 16:26	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/28/14 16:26	1
Bromoform	<0.28		1.0	0.28	ug/L			10/28/14 16:26	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/28/14 16:26	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/28/14 16:26	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/28/14 16:26	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/28/14 16:26	1
Chloroform	<0.20		1.0	0.20	ug/L			10/28/14 16:26	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/28/14 16:26	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/28/14 16:26	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/28/14 16:26	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/28/14 16:26	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/28/14 16:26	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/28/14 16:26	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/28/14 16:26	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/28/14 16:26	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/28/14 16:26	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/28/14 16:26	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/28/14 16:26	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/28/14 16:26	1
Naphthalene	<0.16	*	1.0	0.16	ug/L			10/28/14 16:26	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/28/14 16:26	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/28/14 16:26	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/28/14 16:26	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/28/14 16:26	1
Styrene	<0.10		1.0	0.10	ug/L			10/28/14 16:26	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/28/14 16:26	1
Tetrachloroethene	0.54	J	1.0	0.17	ug/L			10/28/14 16:26	1
Toluene	<0.11		0.50	0.11	ug/L			10/28/14 16:26	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/28/14 16:26	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/28/14 16:26	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/28/14 16:26	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/28/14 16:26	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/28/14 16:26	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/28/14 16:26	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MW-25D

Lab Sample ID: 500-86424-13

Date Collected: 10/20/14 17:45

Matrix: Water

Date Received: 10/21/14 10:20

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,2-Dichloroethane-d4 (Surr)	106		75 - 125		10/28/14 16:26	1
4-Bromofluorobenzene (Surr)	103		75 - 120		10/28/14 16:26	1
Dibromofluoromethane	103		75 - 120		10/28/14 16:26	1
Toluene-d8 (Surr)	97		75 - 120		10/28/14 16:26	1

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

QC Association Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

GC/MS VOA

Analysis Batch: 260851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86424-1	Trip Blank	Total/NA	Water	8260B	
500-86424-2	MP-14 (170-178)	Total/NA	Water	8260B	
500-86424-2 - DL	MP-14 (170-178)	Total/NA	Water	8260B	
500-86424-3	MP-14 (135-140)	Total/NA	Water	8260B	
500-86424-4	MP-14 (100-105)	Total/NA	Water	8260B	
500-86424-5	MP-14 (70-75)	Total/NA	Water	8260B	
500-86424-6	MW-4S	Total/NA	Water	8260B	
500-86424-7	MW-4D	Total/NA	Water	8260B	
500-86424-8	MW-4D2	Total/NA	Water	8260B	
500-86424-9	MW-22S	Total/NA	Water	8260B	
LCS 500-260851/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-260851/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 261152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86424-10	MW-23D	Total/NA	Water	8260B	
500-86424-10 - DL	MW-23D	Total/NA	Water	8260B	
500-86424-11	MW-23S	Total/NA	Water	8260B	
500-86424-12	MW-5D3	Total/NA	Water	8260B	
LCS 500-261152/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-261152/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 261266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86424-13	MW-25D	Total/NA	Water	8260B	
LCS 500-261266/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-261266/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 261271

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86424-3 - DL	MP-14 (135-140)	Total/NA	Water	8260B	
LCS 500-261271/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-261271/6	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 260418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86424-9	MW-22S	Dissolved	Water	3510C	
500-86424-10	MW-23D	Dissolved	Water	3510C	
500-86424-11	MW-23S	Dissolved	Water	3510C	
LCS 500-260418/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 500-260418/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 500-260418/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 261299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86424-9	MW-22S	Dissolved	Water	8082	260418
500-86424-10	MW-23D	Dissolved	Water	8082	260418
500-86424-11	MW-23S	Dissolved	Water	8082	260418

TestAmerica Chicago

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

GC Semi VOA (Continued)

Analysis Batch: 261299 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-260418/2-A	Lab Control Sample	Total/NA	Water	8082	260418
LCSD 500-260418/3-A	Lab Control Sample Dup	Total/NA	Water	8082	260418
MB 500-260418/1-A	Method Blank	Total/NA	Water	8082	260418

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Surrogate Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-125)	BFB (75-120)	DBFM (75-120)	TOL (75-120)
500-86424-1	Trip Blank	87	79	99	98
500-86424-2	MP-14 (170-178)	85	78	99	95
500-86424-2 - DL	MP-14 (170-178)	86	77	99	97
500-86424-3	MP-14 (135-140)	87	79	100	96
500-86424-3 - DL	MP-14 (135-140)	100	81	102	97
500-86424-4	MP-14 (100-105)	88	76	100	97
500-86424-5	MP-14 (70-75)	87	77	101	97
500-86424-6	MW-4S	88	77	99	99
500-86424-7	MW-4D	85	77	99	97
500-86424-8	MW-4D2	87	76	101	97
500-86424-9	MW-22S	85	76	98	96
500-86424-10	MW-23D	105	84	103	97
500-86424-10 - DL	MW-23D	105	82	106	98
500-86424-11	MW-23S	103	81	101	96
500-86424-12	MW-5D3	102	83	106	97
500-86424-13	MW-25D	106	103	103	97
LCS 500-260851/4	Lab Control Sample	80	88	96	95
LCS 500-261152/4	Lab Control Sample	96	90	100	96
LCS 500-261266/4	Lab Control Sample	106	99	101	108
LCS 500-261271/4	Lab Control Sample	93	91	98	96
MB 500-260851/6	Method Blank	85	79	98	97
MB 500-261152/6	Method Blank	101	82	104	98
MB 500-261266/6	Method Blank	110	106	103	101
MB 500-261271/6	Method Blank	101	81	103	98

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 TOL = Toluene-d8 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (50-120)	DCB2 (29-126)
LCS 500-260418/2-A	Lab Control Sample	76	102
LCSD 500-260418/3-A	Lab Control Sample Dup	78	99
MB 500-260418/1-A	Method Blank	72	98

Surrogate Legend

TCX = Tetrachloro-m-xylene
 DCB = DCB Decachlorobiphenyl

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Dissolved

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (50-120)	DCB2 (29-126)
500-86424-9	MW-22S	66	78
500-86424-10	MW-23D	85	79
500-86424-11	MW-23S	83	87

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

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

Lab Sample ID: MB 500-260851/6

Matrix: Water

Analysis Batch: 260851

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/24/14 12:34	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/24/14 12:34	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/24/14 12:34	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 12:34	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/24/14 12:34	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/24/14 12:34	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/24/14 12:34	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/24/14 12:34	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/24/14 12:34	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/24/14 12:34	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 12:34	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/24/14 12:34	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/24/14 12:34	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/24/14 12:34	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/24/14 12:34	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/24/14 12:34	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/24/14 12:34	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 12:34	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/24/14 12:34	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/24/14 12:34	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/24/14 12:34	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/24/14 12:34	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/24/14 12:34	1
Benzene	<0.074		0.50	0.074	ug/L			10/24/14 12:34	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/24/14 12:34	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/24/14 12:34	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/24/14 12:34	1
Bromoform	<0.28		1.0	0.28	ug/L			10/24/14 12:34	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/24/14 12:34	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/24/14 12:34	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/24/14 12:34	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/24/14 12:34	1
Chloroform	<0.20		1.0	0.20	ug/L			10/24/14 12:34	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/24/14 12:34	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/24/14 12:34	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/24/14 12:34	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/24/14 12:34	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/24/14 12:34	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/24/14 12:34	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/24/14 12:34	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/24/14 12:34	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/24/14 12:34	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 12:34	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/24/14 12:34	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/24/14 12:34	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/24/14 12:34	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 12:34	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/24/14 12:34	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

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

Lab Sample ID: MB 500-260851/6

Matrix: Water

Analysis Batch: 260851

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/24/14 12:34	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/24/14 12:34	1
Styrene	<0.10		1.0	0.10	ug/L			10/24/14 12:34	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/24/14 12:34	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/24/14 12:34	1
Toluene	<0.11		0.50	0.11	ug/L			10/24/14 12:34	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/24/14 12:34	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/24/14 12:34	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/24/14 12:34	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/24/14 12:34	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/24/14 12:34	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/24/14 12:34	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	85		75 - 125		10/24/14 12:34	1
4-Bromofluorobenzene (Surr)	79		75 - 120		10/24/14 12:34	1
Dibromofluoromethane	98		75 - 120		10/24/14 12:34	1
Toluene-d8 (Surr)	97		75 - 120		10/24/14 12:34	1

Lab Sample ID: LCS 500-260851/4

Matrix: Water

Analysis Batch: 260851

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	50.0	51.1		ug/L		102	75 - 122
1,1,1-Trichloroethane	50.0	46.5		ug/L		93	72 - 130
1,1,2,2-Tetrachloroethane	50.0	46.5		ug/L		93	72 - 130
1,1,2-Trichloroethane	50.0	48.9		ug/L		98	75 - 120
1,1-Dichloroethane	50.0	40.3		ug/L		81	75 - 120
1,1-Dichloroethene	50.0	48.2		ug/L		96	69 - 120
1,1-Dichloropropene	50.0	47.0		ug/L		94	75 - 130
1,2,3-Trichlorobenzene	50.0	45.6		ug/L		91	69 - 131
1,2,3-Trichloropropane	50.0	53.4		ug/L		107	65 - 132
1,2,4-Trichlorobenzene	50.0	46.1		ug/L		92	73 - 130
1,2,4-Trimethylbenzene	50.0	50.8		ug/L		102	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	41.3		ug/L		83	62 - 130
1,2-Dibromoethane	50.0	48.1		ug/L		96	78 - 122
1,2-Dichlorobenzene	50.0	52.6		ug/L		105	75 - 120
1,2-Dichloroethane	50.0	38.3		ug/L		77	69 - 130
1,2-Dichloropropane	50.0	39.8		ug/L		80	75 - 120
1,3,5-Trimethylbenzene	50.0	50.3		ug/L		101	75 - 121
1,3-Dichlorobenzene	50.0	53.4		ug/L		107	75 - 120
1,3-Dichloropropane	50.0	45.6		ug/L		91	77 - 124
1,4-Dichlorobenzene	50.0	52.5		ug/L		105	75 - 120
2,2-Dichloropropane	50.0	39.8		ug/L		80	65 - 132
2-Chlorotoluene	50.0	47.0		ug/L		94	75 - 120
4-Chlorotoluene	50.0	47.9		ug/L		96	75 - 120
Benzene	50.0	45.3		ug/L		91	75 - 120

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

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

Lab Sample ID: LCS 500-260851/4

Matrix: Water

Analysis Batch: 260851

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	49.6		ug/L		99	75 - 120
Bromochloromethane	50.0	47.4		ug/L		95	76 - 120
Bromodichloromethane	50.0	44.7		ug/L		89	77 - 121
Bromoform	50.0	50.0		ug/L		100	68 - 126
Bromomethane	50.0	126	*	ug/L		252	45 - 169
Carbon tetrachloride	50.0	52.2		ug/L		104	70 - 130
Chlorobenzene	50.0	50.3		ug/L		101	75 - 120
Chloroethane	50.0	107	*	ug/L		214	58 - 147
Chloroform	50.0	44.2		ug/L		88	76 - 120
Chloromethane	50.0	37.2		ug/L		74	63 - 133
cis-1,2-Dichloroethene	50.0	47.6		ug/L		95	75 - 120
cis-1,3-Dichloropropene	50.0	42.5		ug/L		85	78 - 130
Dibromochloromethane	50.0	49.3		ug/L		99	71 - 126
Dibromomethane	50.0	45.2		ug/L		90	75 - 120
Dichlorodifluoromethane	50.0	49.3		ug/L		99	41 - 146
Ethylbenzene	50.0	53.6		ug/L		107	75 - 120
Hexachlorobutadiene	50.0	46.5		ug/L		93	71 - 131
Isopropylbenzene	50.0	49.5		ug/L		99	75 - 121
Methyl tert-butyl ether	50.0	36.7	*	ug/L		73	75 - 130
Methylene Chloride	50.0	47.4		ug/L		95	73 - 130
Naphthalene	50.0	41.5		ug/L		83	69 - 135
n-Butylbenzene	50.0	49.9		ug/L		100	75 - 121
N-Propylbenzene	50.0	49.0		ug/L		98	75 - 120
p-Isopropyltoluene	50.0	53.2		ug/L		106	75 - 121
sec-Butylbenzene	50.0	51.6		ug/L		103	75 - 120
Styrene	50.0	51.6		ug/L		103	75 - 120
tert-Butylbenzene	50.0	51.9		ug/L		104	75 - 123
Tetrachloroethene	50.0	52.0		ug/L		104	75 - 120
Toluene	50.0	46.8		ug/L		94	75 - 120
trans-1,2-Dichloroethene	50.0	48.7		ug/L		97	77 - 120
trans-1,3-Dichloropropene	50.0	41.7		ug/L		83	74 - 130
Trichloroethene	50.0	50.4		ug/L		101	75 - 120
Trichlorofluoromethane	50.0	61.0		ug/L		122	71 - 130
Vinyl chloride	50.0	44.3		ug/L		89	72 - 123
Xylenes, Total	100	97.3		ug/L		97	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	80		75 - 125
4-Bromofluorobenzene (Surr)	88		75 - 120
Dibromofluoromethane	96		75 - 120
Toluene-d8 (Surr)	95		75 - 120

Lab Sample ID: MB 500-261152/6

Matrix: Water

Analysis Batch: 261152

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/27/14 12:29	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

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

Lab Sample ID: MB 500-261152/6

Matrix: Water

Analysis Batch: 261152

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/27/14 12:29	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/27/14 12:29	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/27/14 12:29	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/27/14 12:29	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/27/14 12:29	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/27/14 12:29	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/27/14 12:29	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/27/14 12:29	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/27/14 12:29	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/27/14 12:29	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/27/14 12:29	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/27/14 12:29	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/27/14 12:29	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/27/14 12:29	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/27/14 12:29	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/27/14 12:29	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/27/14 12:29	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/27/14 12:29	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/27/14 12:29	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/27/14 12:29	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/27/14 12:29	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/27/14 12:29	1
Benzene	<0.074		0.50	0.074	ug/L			10/27/14 12:29	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/27/14 12:29	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/27/14 12:29	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/27/14 12:29	1
Bromoform	<0.28		1.0	0.28	ug/L			10/27/14 12:29	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/27/14 12:29	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/27/14 12:29	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/27/14 12:29	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/27/14 12:29	1
Chloroform	<0.20		1.0	0.20	ug/L			10/27/14 12:29	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/27/14 12:29	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/27/14 12:29	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/27/14 12:29	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/27/14 12:29	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/27/14 12:29	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/27/14 12:29	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/27/14 12:29	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/27/14 12:29	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/27/14 12:29	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/27/14 12:29	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/27/14 12:29	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/27/14 12:29	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/27/14 12:29	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/27/14 12:29	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/27/14 12:29	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/27/14 12:29	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

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

Lab Sample ID: MB 500-261152/6

Matrix: Water

Analysis Batch: 261152

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/27/14 12:29	1
Styrene	<0.10		1.0	0.10	ug/L			10/27/14 12:29	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/27/14 12:29	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/27/14 12:29	1
Toluene	<0.11		0.50	0.11	ug/L			10/27/14 12:29	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/27/14 12:29	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/27/14 12:29	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/27/14 12:29	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/27/14 12:29	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/27/14 12:29	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/27/14 12:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 125		10/27/14 12:29	1
4-Bromofluorobenzene (Surr)	82		75 - 120		10/27/14 12:29	1
Dibromofluoromethane	104		75 - 120		10/27/14 12:29	1
Toluene-d8 (Surr)	98		75 - 120		10/27/14 12:29	1

Lab Sample ID: LCS 500-261152/4

Matrix: Water

Analysis Batch: 261152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	55.8		ug/L		112	75 - 122
1,1,1-Trichloroethane	50.0	50.2		ug/L		100	72 - 130
1,1,1,2-Tetrachloroethane	50.0	50.1		ug/L		100	72 - 130
1,1,2-Trichloroethane	50.0	53.1		ug/L		106	75 - 120
1,1-Dichloroethane	50.0	47.0		ug/L		94	75 - 120
1,1-Dichloroethene	50.0	47.7		ug/L		95	69 - 120
1,1-Dichloropropene	50.0	48.7		ug/L		97	75 - 130
1,2,3-Trichlorobenzene	50.0	45.8		ug/L		92	69 - 131
1,2,3-Trichloropropane	50.0	40.8		ug/L		82	65 - 132
1,2,4-Trichlorobenzene	50.0	44.5		ug/L		89	73 - 130
1,2,4-Trimethylbenzene	50.0	52.0		ug/L		104	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	44.9		ug/L		90	62 - 130
1,2-Dibromoethane	50.0	51.7		ug/L		103	78 - 122
1,2-Dichlorobenzene	50.0	55.8		ug/L		112	75 - 120
1,2-Dichloroethane	50.0	49.1		ug/L		98	69 - 130
1,2-Dichloropropane	50.0	47.8		ug/L		96	75 - 120
1,3,5-Trimethylbenzene	50.0	51.1		ug/L		102	75 - 121
1,3-Dichlorobenzene	50.0	54.6		ug/L		109	75 - 120
1,3-Dichloropropane	50.0	50.7		ug/L		101	77 - 124
1,4-Dichlorobenzene	50.0	53.7		ug/L		107	75 - 120
2,2-Dichloropropane	50.0	42.7		ug/L		85	65 - 132
2-Chlorotoluene	50.0	49.5		ug/L		99	75 - 120
4-Chlorotoluene	50.0	51.3		ug/L		103	75 - 120
Benzene	50.0	48.1		ug/L		96	75 - 120
Bromobenzene	50.0	51.6		ug/L		103	75 - 120

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

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

Lab Sample ID: LCS 500-261152/4

Matrix: Water

Analysis Batch: 261152

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	49.9		ug/L		100	76 - 120
Bromodichloromethane	50.0	50.6		ug/L		101	77 - 121
Bromoform	50.0	57.0		ug/L		114	68 - 126
Bromomethane	50.0	111	*	ug/L		222	45 - 169
Carbon tetrachloride	50.0	54.4		ug/L		109	70 - 130
Chlorobenzene	50.0	54.9		ug/L		110	75 - 120
Chloroethane	50.0	93.3	*	ug/L		187	58 - 147
Chloroform	50.0	48.4		ug/L		97	76 - 120
Chloromethane	50.0	49.9		ug/L		100	63 - 133
cis-1,2-Dichloroethene	50.0	48.7		ug/L		97	75 - 120
cis-1,3-Dichloropropene	50.0	46.1		ug/L		92	78 - 130
Dibromochloromethane	50.0	54.7		ug/L		109	71 - 126
Dibromomethane	50.0	50.7		ug/L		101	75 - 120
Dichlorodifluoromethane	50.0	47.1		ug/L		94	41 - 146
Ethylbenzene	50.0	56.7		ug/L		113	75 - 120
Hexachlorobutadiene	50.0	47.9		ug/L		96	71 - 131
Isopropylbenzene	50.0	51.0		ug/L		102	75 - 121
Methyl tert-butyl ether	50.0	41.7		ug/L		83	75 - 130
Methylene Chloride	50.0	48.0		ug/L		96	73 - 130
Naphthalene	50.0	44.5		ug/L		89	69 - 135
n-Butylbenzene	50.0	52.6		ug/L		105	75 - 121
N-Propylbenzene	50.0	51.6		ug/L		103	75 - 120
p-Isopropyltoluene	50.0	53.8		ug/L		108	75 - 121
sec-Butylbenzene	50.0	53.6		ug/L		107	75 - 120
Styrene	50.0	55.9		ug/L		112	75 - 120
tert-Butylbenzene	50.0	52.4		ug/L		105	75 - 123
Tetrachloroethene	50.0	53.2		ug/L		106	75 - 120
Toluene	50.0	50.2		ug/L		100	75 - 120
trans-1,2-Dichloroethene	50.0	49.0		ug/L		98	77 - 120
trans-1,3-Dichloropropene	50.0	47.7		ug/L		95	74 - 130
Trichloroethene	50.0	51.1		ug/L		102	75 - 120
Trichlorofluoromethane	50.0	63.6		ug/L		127	71 - 130
Vinyl chloride	50.0	47.4		ug/L		95	72 - 123
Xylenes, Total	100	107		ug/L		107	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		75 - 125
4-Bromofluorobenzene (Surr)	90		75 - 120
Dibromofluoromethane	100		75 - 120
Toluene-d8 (Surr)	96		75 - 120

Lab Sample ID: MB 500-261266/6

Matrix: Water

Analysis Batch: 261266

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/28/14 12:42	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/28/14 12:42	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

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

Lab Sample ID: MB 500-261266/6

Matrix: Water

Analysis Batch: 261266

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/28/14 12:42	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/28/14 12:42	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/28/14 12:42	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/28/14 12:42	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/28/14 12:42	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/28/14 12:42	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/28/14 12:42	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/28/14 12:42	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/28/14 12:42	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/28/14 12:42	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/28/14 12:42	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/28/14 12:42	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/28/14 12:42	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/28/14 12:42	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/28/14 12:42	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/28/14 12:42	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/28/14 12:42	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/28/14 12:42	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/28/14 12:42	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/28/14 12:42	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/28/14 12:42	1
Benzene	<0.074		0.50	0.074	ug/L			10/28/14 12:42	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/28/14 12:42	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/28/14 12:42	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/28/14 12:42	1
Bromoform	<0.28		1.0	0.28	ug/L			10/28/14 12:42	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/28/14 12:42	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/28/14 12:42	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/28/14 12:42	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/28/14 12:42	1
Chloroform	<0.20		1.0	0.20	ug/L			10/28/14 12:42	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/28/14 12:42	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/28/14 12:42	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/28/14 12:42	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/28/14 12:42	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/28/14 12:42	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/28/14 12:42	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/28/14 12:42	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/28/14 12:42	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/28/14 12:42	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/28/14 12:42	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/28/14 12:42	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/28/14 12:42	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/28/14 12:42	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/28/14 12:42	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/28/14 12:42	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/28/14 12:42	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/28/14 12:42	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

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

Lab Sample ID: MB 500-261266/6

Matrix: Water

Analysis Batch: 261266

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Styrene	<0.10		1.0	0.10	ug/L			10/28/14 12:42	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/28/14 12:42	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/28/14 12:42	1
Toluene	<0.11		0.50	0.11	ug/L			10/28/14 12:42	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/28/14 12:42	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/28/14 12:42	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/28/14 12:42	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/28/14 12:42	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/28/14 12:42	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/28/14 12:42	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	110		75 - 125		10/28/14 12:42	1
4-Bromofluorobenzene (Surr)	106		75 - 120		10/28/14 12:42	1
Dibromofluoromethane	103		75 - 120		10/28/14 12:42	1
Toluene-d8 (Surr)	101		75 - 120		10/28/14 12:42	1

Lab Sample ID: LCS 500-261266/4

Matrix: Water

Analysis Batch: 261266

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
1,1,1,2-Tetrachloroethane	50.0	62.5	*	ug/L		125	75 - 122
1,1,1-Trichloroethane	50.0	53.6		ug/L		107	72 - 130
1,1,1,2-Tetrachloroethane	50.0	61.6		ug/L		123	72 - 130
1,1,2-Trichloroethane	50.0	61.6	*	ug/L		123	75 - 120
1,1-Dichloroethane	50.0	51.1		ug/L		102	75 - 120
1,1-Dichloroethene	50.0	51.2		ug/L		102	69 - 120
1,1-Dichloropropene	50.0	54.2		ug/L		108	75 - 130
1,2,3-Trichlorobenzene	50.0	64.0		ug/L		128	69 - 131
1,2,3-Trichloropropene	50.0	63.6		ug/L		127	65 - 132
1,2,4-Trichlorobenzene	50.0	61.4		ug/L		123	73 - 130
1,2,4-Trimethylbenzene	50.0	55.2		ug/L		110	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	65.3	*	ug/L		131	62 - 130
1,2-Dibromoethane	50.0	59.3		ug/L		119	78 - 122
1,2-Dichlorobenzene	50.0	57.4		ug/L		115	75 - 120
1,2-Dichloroethane	50.0	56.2		ug/L		112	69 - 130
1,2-Dichloropropane	50.0	52.2		ug/L		104	75 - 120
1,3,5-Trimethylbenzene	50.0	56.3		ug/L		113	75 - 121
1,3-Dichlorobenzene	50.0	56.0		ug/L		112	75 - 120
1,3-Dichloropropane	50.0	60.3		ug/L		121	77 - 124
1,4-Dichlorobenzene	50.0	55.3		ug/L		111	75 - 120
2,2-Dichloropropane	50.0	51.7		ug/L		103	65 - 132
2-Chlorotoluene	50.0	53.9		ug/L		108	75 - 120
4-Chlorotoluene	50.0	54.6		ug/L		109	75 - 120
Benzene	50.0	52.3		ug/L		105	75 - 120
Bromobenzene	50.0	54.3		ug/L		109	75 - 120
Bromochloromethane	50.0	54.3		ug/L		109	76 - 120

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

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

Lab Sample ID: LCS 500-261266/4

Matrix: Water

Analysis Batch: 261266

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	57.5		ug/L		115	77 - 121
Bromoform	50.0	62.8		ug/L		126	68 - 126
Bromomethane	50.0	41.7		ug/L		83	45 - 169
Carbon tetrachloride	50.0	53.7		ug/L		107	70 - 130
Chlorobenzene	50.0	56.4		ug/L		113	75 - 120
Chloroethane	50.0	41.5		ug/L		83	58 - 147
Chloroform	50.0	54.8		ug/L		110	76 - 120
Chloromethane	50.0	43.1		ug/L		86	63 - 133
cis-1,2-Dichloroethene	50.0	50.8		ug/L		102	75 - 120
cis-1,3-Dichloropropene	50.0	61.1		ug/L		122	78 - 130
Dibromochloromethane	50.0	61.6		ug/L		123	71 - 126
Dibromomethane	50.0	55.0		ug/L		110	75 - 120
Dichlorodifluoromethane	50.0	47.4		ug/L		95	41 - 146
Ethylbenzene	50.0	57.4		ug/L		115	75 - 120
Hexachlorobutadiene	50.0	58.4		ug/L		117	71 - 131
Isopropylbenzene	50.0	55.2		ug/L		110	75 - 121
Methyl tert-butyl ether	50.0	52.7		ug/L		105	75 - 130
Methylene Chloride	50.0	58.5		ug/L		117	73 - 130
Naphthalene	50.0	68.8 *		ug/L		138	69 - 135
n-Butylbenzene	50.0	56.9		ug/L		114	75 - 121
N-Propylbenzene	50.0	54.7		ug/L		109	75 - 120
p-Isopropyltoluene	50.0	56.9		ug/L		114	75 - 121
sec-Butylbenzene	50.0	55.6		ug/L		111	75 - 120
Styrene	50.0	56.6		ug/L		113	75 - 120
tert-Butylbenzene	50.0	55.1		ug/L		110	75 - 123
Tetrachloroethene	50.0	58.1		ug/L		116	75 - 120
Toluene	50.0	58.5		ug/L		117	75 - 120
trans-1,2-Dichloroethene	50.0	51.0		ug/L		102	77 - 120
trans-1,3-Dichloropropene	50.0	59.2		ug/L		118	74 - 130
Trichloroethene	50.0	52.9		ug/L		106	75 - 120
Trichlorofluoromethane	50.0	48.5		ug/L		97	71 - 130
Vinyl chloride	50.0	44.4		ug/L		89	72 - 123
Xylenes, Total	100	112		ug/L		112	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	106		75 - 125
4-Bromofluorobenzene (Surr)	99		75 - 120
Dibromofluoromethane	101		75 - 120
Toluene-d8 (Surr)	108		75 - 120

Lab Sample ID: MB 500-261271/6

Matrix: Water

Analysis Batch: 261271

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			10/28/14 11:00	1
1,1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			10/28/14 11:00	1
1,1,1,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			10/28/14 11:00	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

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

Lab Sample ID: MB 500-261271/6

Matrix: Water

Analysis Batch: 261271

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			10/28/14 11:00	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			10/28/14 11:00	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			10/28/14 11:00	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			10/28/14 11:00	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			10/28/14 11:00	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			10/28/14 11:00	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			10/28/14 11:00	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			10/28/14 11:00	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			10/28/14 11:00	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			10/28/14 11:00	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			10/28/14 11:00	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			10/28/14 11:00	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			10/28/14 11:00	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			10/28/14 11:00	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/28/14 11:00	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			10/28/14 11:00	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			10/28/14 11:00	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			10/28/14 11:00	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			10/28/14 11:00	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			10/28/14 11:00	1
Benzene	<0.074		0.50	0.074	ug/L			10/28/14 11:00	1
Bromobenzene	<0.25		1.0	0.25	ug/L			10/28/14 11:00	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			10/28/14 11:00	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			10/28/14 11:00	1
Bromoform	<0.28		1.0	0.28	ug/L			10/28/14 11:00	1
Bromomethane	<0.31		1.0	0.31	ug/L			10/28/14 11:00	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			10/28/14 11:00	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			10/28/14 11:00	1
Chloroethane	<0.34		1.0	0.34	ug/L			10/28/14 11:00	1
Chloroform	<0.20		1.0	0.20	ug/L			10/28/14 11:00	1
Chloromethane	<0.18		1.0	0.18	ug/L			10/28/14 11:00	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			10/28/14 11:00	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			10/28/14 11:00	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			10/28/14 11:00	1
Dibromomethane	<0.33		1.0	0.33	ug/L			10/28/14 11:00	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			10/28/14 11:00	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			10/28/14 11:00	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			10/28/14 11:00	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			10/28/14 11:00	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			10/28/14 11:00	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			10/28/14 11:00	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			10/28/14 11:00	1
Naphthalene	<0.16		1.0	0.16	ug/L			10/28/14 11:00	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			10/28/14 11:00	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			10/28/14 11:00	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			10/28/14 11:00	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			10/28/14 11:00	1
Styrene	<0.10		1.0	0.10	ug/L			10/28/14 11:00	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

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

Lab Sample ID: MB 500-261271/6

Matrix: Water

Analysis Batch: 261271

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			10/28/14 11:00	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			10/28/14 11:00	1
Toluene	<0.11		0.50	0.11	ug/L			10/28/14 11:00	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			10/28/14 11:00	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			10/28/14 11:00	1
Trichloroethene	<0.19		0.50	0.19	ug/L			10/28/14 11:00	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			10/28/14 11:00	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			10/28/14 11:00	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			10/28/14 11:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 125		10/28/14 11:00	1
4-Bromofluorobenzene (Surr)	81		75 - 120		10/28/14 11:00	1
Dibromofluoromethane	103		75 - 120		10/28/14 11:00	1
Toluene-d8 (Surr)	98		75 - 120		10/28/14 11:00	1

Lab Sample ID: LCS 500-261271/4

Matrix: Water

Analysis Batch: 261271

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	54.7		ug/L		109	75 - 122
1,1,1-Trichloroethane	50.0	47.7		ug/L		95	72 - 130
1,1,1,2-Tetrachloroethane	50.0	46.9		ug/L		94	72 - 130
1,1,2-Trichloroethane	50.0	51.1		ug/L		102	75 - 120
1,1-Dichloroethane	50.0	44.7		ug/L		89	75 - 120
1,1-Dichloroethene	50.0	43.8		ug/L		88	69 - 120
1,1-Dichloropropene	50.0	47.1		ug/L		94	75 - 130
1,2,3-Trichlorobenzene	50.0	44.9		ug/L		90	69 - 131
1,2,3-Trichloropropane	50.0	36.9		ug/L		74	65 - 132
1,2,4-Trichlorobenzene	50.0	44.8		ug/L		90	73 - 130
1,2,4-Trimethylbenzene	50.0	50.8		ug/L		102	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	40.1		ug/L		80	62 - 130
1,2-Dibromoethane	50.0	49.4		ug/L		99	78 - 122
1,2-Dichlorobenzene	50.0	53.8		ug/L		108	75 - 120
1,2-Dichloroethane	50.0	47.6		ug/L		95	69 - 130
1,2-Dichloropropane	50.0	44.8		ug/L		90	75 - 120
1,3,5-Trimethylbenzene	50.0	50.5		ug/L		101	75 - 121
1,3-Dichlorobenzene	50.0	53.0		ug/L		106	75 - 120
1,3-Dichloropropane	50.0	47.8		ug/L		96	77 - 124
1,4-Dichlorobenzene	50.0	53.4		ug/L		107	75 - 120
2,2-Dichloropropane	50.0	40.9		ug/L		82	65 - 132
2-Chlorotoluene	50.0	47.3		ug/L		95	75 - 120
4-Chlorotoluene	50.0	49.5		ug/L		99	75 - 120
Benzene	50.0	45.8		ug/L		92	75 - 120
Bromobenzene	50.0	49.1		ug/L		98	75 - 120
Bromochloromethane	50.0	48.0		ug/L		96	76 - 120
Bromodichloromethane	50.0	48.9		ug/L		98	77 - 121

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

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

Lab Sample ID: LCS 500-261271/4

Matrix: Water

Analysis Batch: 261271

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	50.0	53.7		ug/L		107	68 - 126
Bromomethane	50.0	108	*	ug/L		217	45 - 169
Carbon tetrachloride	50.0	51.5		ug/L		103	70 - 130
Chlorobenzene	50.0	54.0		ug/L		108	75 - 120
Chloroethane	50.0	95.8	*	ug/L		192	58 - 147
Chloroform	50.0	46.7		ug/L		93	76 - 120
Chloromethane	50.0	44.3		ug/L		89	63 - 133
cis-1,2-Dichloroethene	50.0	47.1		ug/L		94	75 - 120
cis-1,3-Dichloropropene	50.0	43.3		ug/L		87	78 - 130
Dibromochloromethane	50.0	52.3		ug/L		105	71 - 126
Dibromomethane	50.0	48.4		ug/L		97	75 - 120
Dichlorodifluoromethane	50.0	41.9		ug/L		84	41 - 146
Ethylbenzene	50.0	56.4		ug/L		113	75 - 120
Hexachlorobutadiene	50.0	47.7		ug/L		95	71 - 131
Isopropylbenzene	50.0	49.5		ug/L		99	75 - 121
Methyl tert-butyl ether	50.0	39.3		ug/L		79	75 - 130
Methylene Chloride	50.0	47.7		ug/L		95	73 - 130
Naphthalene	50.0	42.4		ug/L		85	69 - 135
n-Butylbenzene	50.0	52.5		ug/L		105	75 - 121
N-Propylbenzene	50.0	50.4		ug/L		101	75 - 120
p-Isopropyltoluene	50.0	53.6		ug/L		107	75 - 121
sec-Butylbenzene	50.0	52.5		ug/L		105	75 - 120
Styrene	50.0	56.7		ug/L		113	75 - 120
tert-Butylbenzene	50.0	51.5		ug/L		103	75 - 123
Tetrachloroethene	50.0	53.3		ug/L		107	75 - 120
Toluene	50.0	48.1		ug/L		96	75 - 120
trans-1,2-Dichloroethene	50.0	46.6		ug/L		93	77 - 120
trans-1,3-Dichloropropene	50.0	46.3		ug/L		93	74 - 130
Trichloroethene	50.0	49.9		ug/L		100	75 - 120
Trichlorofluoromethane	50.0	63.0		ug/L		126	71 - 130
Vinyl chloride	50.0	43.7		ug/L		87	72 - 123
Xylenes, Total	100	106		ug/L		106	75 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		75 - 125
4-Bromofluorobenzene (Surr)	91		75 - 120
Dibromofluoromethane	98		75 - 120
Toluene-d8 (Surr)	96		75 - 120

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-260418/1-A

Matrix: Water

Analysis Batch: 261299

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 260418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.067		0.40	0.067	ug/L		10/22/14 09:27	10/28/14 08:56	1
PCB-1221	<0.20		0.40	0.20	ug/L		10/22/14 09:27	10/28/14 08:56	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-260418/1-A

Matrix: Water

Analysis Batch: 261299

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 260418

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1232	<0.20		0.40	0.20	ug/L		10/22/14 09:27	10/28/14 08:56	1
PCB-1242	<0.20		0.40	0.20	ug/L		10/22/14 09:27	10/28/14 08:56	1
PCB-1248	<0.20		0.40	0.20	ug/L		10/22/14 09:27	10/28/14 08:56	1
PCB-1254	<0.20		0.40	0.20	ug/L		10/22/14 09:27	10/28/14 08:56	1
PCB-1260	<0.070		0.40	0.070	ug/L		10/22/14 09:27	10/28/14 08:56	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	72		50 - 120	10/22/14 09:27	10/28/14 08:56	1
DCB Decachlorobiphenyl	98		29 - 126	10/22/14 09:27	10/28/14 08:56	1

Lab Sample ID: LCS 500-260418/2-A

Matrix: Water

Analysis Batch: 261299

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 260418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
							Limits
PCB-1016	4.01	3.65		ug/L		91	70 - 130
PCB-1260	4.02	3.90		ug/L		97	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	76		50 - 120
DCB Decachlorobiphenyl	102		29 - 126

Lab Sample ID: LCSD 500-260418/3-A

Matrix: Water

Analysis Batch: 261299

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 260418

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	Limit
							Limits	RPD	Limit
PCB-1016	4.01	3.65		ug/L		91	70 - 130	0	20
PCB-1260	4.02	3.90		ug/L		97	70 - 130	0	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	78		50 - 120
DCB Decachlorobiphenyl	99		29 - 126

Lab Chronicle

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-86424-1

Date Collected: 10/17/14 00:00

Matrix: Water

Date Received: 10/21/14 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260851	10/24/14 17:57	BDA	TAL CHI

Client Sample ID: MP-14 (170-178)

Lab Sample ID: 500-86424-2

Date Collected: 10/17/14 10:05

Matrix: Water

Date Received: 10/21/14 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	260851	10/24/14 18:21	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	20	260851	10/24/14 18:46	BDA	TAL CHI

Client Sample ID: MP-14 (135-140)

Lab Sample ID: 500-86424-3

Date Collected: 10/17/14 10:20

Matrix: Water

Date Received: 10/21/14 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260851	10/24/14 19:11	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	10	261271	10/28/14 11:24	BDA	TAL CHI

Client Sample ID: MP-14 (100-105)

Lab Sample ID: 500-86424-4

Date Collected: 10/17/14 10:43

Matrix: Water

Date Received: 10/21/14 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260851	10/24/14 19:36	BDA	TAL CHI

Client Sample ID: MP-14 (70-75)

Lab Sample ID: 500-86424-5

Date Collected: 10/17/14 11:00

Matrix: Water

Date Received: 10/21/14 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260851	10/24/14 20:00	BDA	TAL CHI

Client Sample ID: MW-4S

Lab Sample ID: 500-86424-6

Date Collected: 10/17/14 10:00

Matrix: Water

Date Received: 10/21/14 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260851	10/24/14 20:25	BDA	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MW-4D

Lab Sample ID: 500-86424-7

Date Collected: 10/17/14 11:20

Matrix: Water

Date Received: 10/21/14 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260851	10/24/14 20:50	BDA	TAL CHI

Client Sample ID: MW-4D2

Lab Sample ID: 500-86424-8

Date Collected: 10/17/14 13:20

Matrix: Water

Date Received: 10/21/14 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260851	10/24/14 21:15	BDA	TAL CHI

Client Sample ID: MW-22S

Lab Sample ID: 500-86424-9

Date Collected: 10/20/14 11:00

Matrix: Water

Date Received: 10/21/14 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	260851	10/24/14 21:40	BDA	TAL CHI
Dissolved	Prep	3510C			260418	10/22/14 09:27	SML	TAL CHI
Dissolved	Analysis	8082		1	261299	10/28/14 11:18	PJG	TAL CHI

Client Sample ID: MW-23D

Lab Sample ID: 500-86424-10

Date Collected: 10/20/14 14:55

Matrix: Water

Date Received: 10/21/14 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	261152	10/27/14 12:54	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	10	261152	10/27/14 13:19	BDA	TAL CHI
Dissolved	Prep	3510C			260418	10/22/14 09:27	SML	TAL CHI
Dissolved	Analysis	8082		1	261299	10/28/14 11:33	PJG	TAL CHI

Client Sample ID: MW-23S

Lab Sample ID: 500-86424-11

Date Collected: 10/20/14 17:00

Matrix: Water

Date Received: 10/21/14 10:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	261152	10/27/14 13:44	BDA	TAL CHI
Dissolved	Prep	3510C			260418	10/22/14 09:27	SML	TAL CHI
Dissolved	Analysis	8082		1	261299	10/28/14 11:47	PJG	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Client Sample ID: MW-5D3

Date Collected: 10/20/14 15:15

Date Received: 10/21/14 10:20

Lab Sample ID: 500-86424-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	261152	10/27/14 14:34	BDA	TAL CHI

Client Sample ID: MW-25D

Date Collected: 10/20/14 17:45

Date Received: 10/21/14 10:20

Lab Sample ID: 500-86424-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	261266	10/28/14 16:26	JMP	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86424-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-15 *


* Certification renewal pending - certification considered valid.



ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order # 500-86424

Send Results to:	Contact & Company Name: Chris Kubacki/ARCADIS		Telephone: 414.276.7742		Preservative: B	E																
	Address: 126 N. Jefferson St. 400		Fax: 414.276.7603		Filtered (✓): <input checked="" type="checkbox"/>																	
	City/State/Zip: Milwaukee WI 53202		E-mail Address: Chris.Kubacki@Arcadis-us.com		# of Containers: 3	2																
Project Name/Location (City, State): MKC (Madison, WI)		Project #: WI001368.0018.00002		PARAMETER ANALYSIS & METHOD																		
Sampler's Printed Name: Maureen O'Brien		Sampler's Signature: <i>Maureen O'Brien</i>		 500-86424 COC <div style="position: absolute; top: 20px; left: 20px; transform: rotate(-45deg); font-weight: bold;"> VOCs Method 8140B PCBs Method 8140A </div>																		
Sample ID		Collection																			Type (✓)	
	Date	Time	Comp	Grab																		
1																						
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3																						
4																						
5																						
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Keys

Preservation Key:
 A. H₂SO₄
 B. HCL
 C. HNO₃
 D. NaOH
 E. None
 F. Other:
 G. Other:
 H. Other:

Container Information Key:
 1. 40 ml Vial
 2. 1 L Amber
 3. 250 ml Plastic
 4. 500 ml Plastic
 5. Encore
 6. 2 oz. Glass
 7. 4 oz. Glass
 8. 8 oz. Glass
 9. Other: **125 ml amber**
 10. Other:

Matrix Key:
 SO - Soil
 W - Water
 T - Tissue
 SE - Sediment
 SL - Sludge
 A - Air
 NL - NAPL/Oil
 SW - Sample Wipe
 Other:

Special Instructions/Comments: Special QA/QC Instructions(✓):

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name: Test America	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: Maureen O'Brien	Signature: <i>Maureen O'Brien</i>	Printed Name:	Signature:	Printed Name:	Signature:	Printed Name: Sherri Scott	Signature: <i>Sherri Scott</i>
Specify Turnaround Requirements: Std	Sample Receipt:	Firm: ARCADIS	Date/Time: 10/20/14 1830	Firm/Courier:	Date/Time:	Firm/Courier:	Date/Time:	Firm: TA-CRT	Date/Time: 10/21/14 1020
Shipping Tracking #: Fed Ex	Condition/Cooler Temp: 2.8								

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-86424-1

Login Number: 86424

List Source: TestAmerica Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-86687-1
Client Project/Site: MadisonKipp WI001368.0018.00002

For:
ARCADIS U.S., Inc.
126 North Jefferson Street
Suite 400
Milwaukee, Wisconsin 53202

Attn: Chris Kubacki



Authorized for release by:
11/5/2014 3:50:55 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

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results through
TotalAccess

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Job ID: 500-86687-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-86687-1

Comments

No additional comments.

Receipt

The samples were received on 10/24/2014 10:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.4° C.

GC/MS VOA

Method(s) 8260B: The laboratory control sample (LCS) for batch 262407 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: DUP3 (500-86687-13), MW-17 (500-86687-10), MW-19D (500-86687-4), MW-20D (500-86687-7), MW-20D2 QUENCHED (500-86687-8), MW-21D2 (500-86687-16), MW-3D2 (500-86687-12), MW-3S (500-86687-11). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-5D2

Lab Sample ID: 500-86687-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.79	J	1.0	0.12	ug/L	1		8260B	Total/NA
Tetrachloroethene	47		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	2.2		0.50	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: MW-5S

Lab Sample ID: 500-86687-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.79	J	1.0	0.26	ug/L	1		8260B	Total/NA
Tetrachloroethene	75		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	1.2		0.50	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: MW-5D

Lab Sample ID: 500-86687-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.22	J	0.50	0.074	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	100		1.0	0.12	ug/L	1		8260B	Total/NA
Tetrachloroethene	8.4		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	2.5		0.50	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: MW-19D

Lab Sample ID: 500-86687-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	240		2.0	0.24	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	3.1		2.0	0.50	ug/L	2		8260B	Total/NA
Trichloroethene	140		1.0	0.38	ug/L	2		8260B	Total/NA
Vinyl chloride	4.5		1.0	0.20	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	1500		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: MW-27D

Lab Sample ID: 500-86687-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.1		1.0	0.12	ug/L	1		8260B	Total/NA
Tetrachloroethene	1.7		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	1.7		0.50	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: MW-27D2

Lab Sample ID: 500-86687-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	12		1.0	0.12	ug/L	1		8260B	Total/NA
Tetrachloroethene	41		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	23		0.50	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: MW-20D

Lab Sample ID: 500-86687-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	200		2.0	0.24	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	2.6		2.0	0.50	ug/L	2		8260B	Total/NA
Trichloroethene	110		1.0	0.38	ug/L	2		8260B	Total/NA
Vinyl chloride	2.7		1.0	0.20	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	1100		20	3.4	ug/L	20		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-20D2 QUENCHED

Lab Sample ID: 500-86687-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	12		2.0	0.24	ug/L	2		8260B	Total/NA
Trichloroethene	11		1.0	0.38	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	740		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: MW-25D2

Lab Sample ID: 500-86687-9

No Detections.

Client Sample ID: MW-17

Lab Sample ID: 500-86687-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.5	J	2.0	0.40	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	3.4		2.0	0.24	ug/L	2		8260B	Total/NA
Trichloroethene	55		1.0	0.38	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	920		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: MW-3S

Lab Sample ID: 500-86687-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.67		0.50	0.074	ug/L	1		8260B	Total/NA
Chloroform	2.4		1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	35		1.0	0.12	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	2.7		1.0	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	82		0.50	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	770		10	1.7	ug/L	10		8260B	Total/NA

Client Sample ID: MW-3D2

Lab Sample ID: 500-86687-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	230		2.0	0.24	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	3.0		2.0	0.50	ug/L	2		8260B	Total/NA
Trichloroethene	140		1.0	0.38	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	1700		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: DUP3

Lab Sample ID: 500-86687-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	240		2.0	0.24	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	3.3		2.0	0.50	ug/L	2		8260B	Total/NA
Trichloroethene	140		1.0	0.38	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	1700		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: MW-21D

Lab Sample ID: 500-86687-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.33	J	0.50	0.074	ug/L	1		8260B	Total/NA
Chloroform	0.70	J	1.0	0.20	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	4.1		1.0	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	170		0.50	0.19	ug/L	1		8260B	Total/NA
Vinyl chloride	1.3		0.50	0.10	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	230		10	1.2	ug/L	10		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-21D (Continued)

Lab Sample ID: 500-86687-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene - DL	1200		10	1.7	ug/L	10		8260B	Total/NA

Client Sample ID: MW-21D2 QUENCHED

Lab Sample ID: 500-86687-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.24	J	0.50	0.074	ug/L	1		8260B	Total/NA
Chloroform	0.81	J	1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	1.3		1.0	0.12	ug/L	1		8260B	Total/NA
Trichloroethene	3.3		0.50	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	930		10	1.7	ug/L	10		8260B	Total/NA

Client Sample ID: MW-21D2

Lab Sample ID: 500-86687-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromoform	10		5.0	1.4	ug/L	5		8260B	Total/NA
Tetrachloroethene	6.4		5.0	0.85	ug/L	5		8260B	Total/NA

Client Sample ID: MW-18S

Lab Sample ID: 500-86687-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.46	J	0.50	0.074	ug/L	1		8260B	Total/NA
Chloroform	2.0		1.0	0.20	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	26		1.0	0.12	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.9		1.0	0.25	ug/L	1		8260B	Total/NA
Trichloroethene	65		0.50	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	520		10	1.7	ug/L	10		8260B	Total/NA

Client Sample ID: MW-1

Lab Sample ID: 500-86687-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	22		1.0	0.12	ug/L	1		8260B	Total/NA
Tetrachloroethene	16		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	19		0.50	0.19	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-86687-1	MW-5D2	Water	10/21/14 09:48	10/24/14 10:10
500-86687-2	MW-5S	Water	10/21/14 11:00	10/24/14 10:10
500-86687-3	MW-5D	Water	10/21/14 13:00	10/24/14 10:10
500-86687-4	MW-19D	Water	10/21/14 15:30	10/24/14 10:10
500-86687-5	MW-27D	Water	10/21/14 09:40	10/24/14 10:10
500-86687-6	MW-27D2	Water	10/21/14 10:45	10/24/14 10:10
500-86687-7	MW-20D	Water	10/22/14 09:40	10/24/14 10:10
500-86687-8	MW-20D2 QUENCHED	Water	10/22/14 12:05	10/24/14 10:10
500-86687-9	MW-25D2	Water	10/22/14 15:00	10/24/14 10:10
500-86687-10	MW-17	Water	10/22/14 18:00	10/24/14 10:10
500-86687-11	MW-3S	Water	10/22/14 18:50	10/24/14 10:10
500-86687-12	MW-3D2	Water	10/23/14 09:33	10/24/14 10:10
500-86687-13	DUP3	Water	10/22/14 00:00	10/24/14 10:10
500-86687-14	MW-21D	Water	10/23/14 10:50	10/24/14 10:10
500-86687-15	MW-21D2 QUENCHED	Water	10/23/14 12:03	10/24/14 10:10
500-86687-16	MW-21D2	Water	10/23/14 12:03	10/24/14 10:10
500-86687-17	MW-18S	Water	10/23/14 13:09	10/24/14 10:10
500-86687-18	MW-1	Water	10/23/14 15:47	10/24/14 10:10

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-5D2

Lab Sample ID: 500-86687-1

Date Collected: 10/21/14 09:48

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/03/14 13:22	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/03/14 13:22	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/03/14 13:22	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/03/14 13:22	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/03/14 13:22	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/03/14 13:22	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/03/14 13:22	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/03/14 13:22	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/03/14 13:22	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/03/14 13:22	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 13:22	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/03/14 13:22	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/03/14 13:22	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/03/14 13:22	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/03/14 13:22	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/03/14 13:22	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/03/14 13:22	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/14 13:22	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/03/14 13:22	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/14 13:22	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/03/14 13:22	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/03/14 13:22	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/03/14 13:22	1
Benzene	<0.074		0.50	0.074	ug/L			11/03/14 13:22	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/03/14 13:22	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/03/14 13:22	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/03/14 13:22	1
Bromoform	<0.28		1.0	0.28	ug/L			11/03/14 13:22	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/03/14 13:22	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/03/14 13:22	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/03/14 13:22	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/03/14 13:22	1
Chloroform	<0.20		1.0	0.20	ug/L			11/03/14 13:22	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/03/14 13:22	1
cis-1,2-Dichloroethene	0.79 J		1.0	0.12	ug/L			11/03/14 13:22	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/03/14 13:22	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/03/14 13:22	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/03/14 13:22	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/03/14 13:22	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/03/14 13:22	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/03/14 13:22	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/03/14 13:22	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 13:22	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/03/14 13:22	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/03/14 13:22	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/03/14 13:22	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/03/14 13:22	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/03/14 13:22	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/03/14 13:22	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-5D2

Lab Sample ID: 500-86687-1

Date Collected: 10/21/14 09:48

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/03/14 13:22	1
Styrene	<0.10		1.0	0.10	ug/L			11/03/14 13:22	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 13:22	1
Tetrachloroethene	47		1.0	0.17	ug/L			11/03/14 13:22	1
Toluene	<0.11		0.50	0.11	ug/L			11/03/14 13:22	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/03/14 13:22	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/03/14 13:22	1
Trichloroethene	2.2		0.50	0.19	ug/L			11/03/14 13:22	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/03/14 13:22	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/03/14 13:22	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/03/14 13:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	111		75 - 125					11/03/14 13:22	1
<i>4-Bromofluorobenzene (Surr)</i>	105		75 - 120					11/03/14 13:22	1
<i>Dibromofluoromethane</i>	105		75 - 120					11/03/14 13:22	1
<i>Toluene-d8 (Surr)</i>	98		75 - 120					11/03/14 13:22	1

Client Sample ID: MW-5S

Lab Sample ID: 500-86687-2

Date Collected: 10/21/14 11:00

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/03/14 13:47	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/03/14 13:47	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/03/14 13:47	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/03/14 13:47	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/03/14 13:47	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/03/14 13:47	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/03/14 13:47	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/03/14 13:47	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/03/14 13:47	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/03/14 13:47	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 13:47	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/03/14 13:47	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/03/14 13:47	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/03/14 13:47	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/03/14 13:47	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/03/14 13:47	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/03/14 13:47	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/14 13:47	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/03/14 13:47	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/14 13:47	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/03/14 13:47	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/03/14 13:47	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/03/14 13:47	1
Benzene	<0.074		0.50	0.074	ug/L			11/03/14 13:47	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/03/14 13:47	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/03/14 13:47	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-5S

Lab Sample ID: 500-86687-2

Date Collected: 10/21/14 11:00

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/03/14 13:47	1
Bromoform	<0.28		1.0	0.28	ug/L			11/03/14 13:47	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/03/14 13:47	1
Carbon tetrachloride	0.79	J	1.0	0.26	ug/L			11/03/14 13:47	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/03/14 13:47	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/03/14 13:47	1
Chloroform	<0.20		1.0	0.20	ug/L			11/03/14 13:47	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/03/14 13:47	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			11/03/14 13:47	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/03/14 13:47	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/03/14 13:47	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/03/14 13:47	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/03/14 13:47	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/03/14 13:47	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/03/14 13:47	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/03/14 13:47	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 13:47	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/03/14 13:47	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/03/14 13:47	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/03/14 13:47	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/03/14 13:47	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/03/14 13:47	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/03/14 13:47	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/03/14 13:47	1
Styrene	<0.10		1.0	0.10	ug/L			11/03/14 13:47	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 13:47	1
Tetrachloroethene	75		1.0	0.17	ug/L			11/03/14 13:47	1
Toluene	<0.11		0.50	0.11	ug/L			11/03/14 13:47	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/03/14 13:47	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/03/14 13:47	1
Trichloroethene	1.2		0.50	0.19	ug/L			11/03/14 13:47	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/03/14 13:47	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/03/14 13:47	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/03/14 13:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 125		11/03/14 13:47	1
4-Bromofluorobenzene (Surr)	106		75 - 120		11/03/14 13:47	1
Dibromofluoromethane	99		75 - 120		11/03/14 13:47	1
Toluene-d8 (Surr)	106		75 - 120		11/03/14 13:47	1

Client Sample ID: MW-5D

Lab Sample ID: 500-86687-3

Date Collected: 10/21/14 13:00

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/03/14 14:12	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/03/14 14:12	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/03/14 14:12	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-5D

Lab Sample ID: 500-86687-3

Date Collected: 10/21/14 13:00

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/03/14 14:12	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/03/14 14:12	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/03/14 14:12	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/03/14 14:12	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/03/14 14:12	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/03/14 14:12	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/03/14 14:12	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 14:12	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/03/14 14:12	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/03/14 14:12	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/03/14 14:12	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/03/14 14:12	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/03/14 14:12	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/03/14 14:12	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/14 14:12	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/03/14 14:12	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/14 14:12	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/03/14 14:12	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/03/14 14:12	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/03/14 14:12	1
Benzene	0.22 J		0.50	0.074	ug/L			11/03/14 14:12	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/03/14 14:12	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/03/14 14:12	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/03/14 14:12	1
Bromoform	<0.28		1.0	0.28	ug/L			11/03/14 14:12	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/03/14 14:12	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/03/14 14:12	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/03/14 14:12	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/03/14 14:12	1
Chloroform	<0.20		1.0	0.20	ug/L			11/03/14 14:12	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/03/14 14:12	1
cis-1,2-Dichloroethene	100		1.0	0.12	ug/L			11/03/14 14:12	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/03/14 14:12	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/03/14 14:12	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/03/14 14:12	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/03/14 14:12	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/03/14 14:12	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/03/14 14:12	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/03/14 14:12	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 14:12	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/03/14 14:12	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/03/14 14:12	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/03/14 14:12	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/03/14 14:12	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/03/14 14:12	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/03/14 14:12	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/03/14 14:12	1
Styrene	<0.10		1.0	0.10	ug/L			11/03/14 14:12	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 14:12	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-5D

Lab Sample ID: 500-86687-3

Date Collected: 10/21/14 13:00

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	8.4		1.0	0.17	ug/L			11/03/14 14:12	1
Toluene	<0.11		0.50	0.11	ug/L			11/03/14 14:12	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/03/14 14:12	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/03/14 14:12	1
Trichloroethene	2.5		0.50	0.19	ug/L			11/03/14 14:12	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/03/14 14:12	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/03/14 14:12	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/03/14 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 125					11/03/14 14:12	1
4-Bromofluorobenzene (Surr)	107		75 - 120					11/03/14 14:12	1
Dibromofluoromethane	101		75 - 120					11/03/14 14:12	1
Toluene-d8 (Surr)	102		75 - 120					11/03/14 14:12	1

Client Sample ID: MW-19D

Lab Sample ID: 500-86687-4

Date Collected: 10/21/14 15:30

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			11/03/14 14:36	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			11/03/14 14:36	2
1,1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			11/03/14 14:36	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			11/03/14 14:36	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			11/03/14 14:36	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			11/03/14 14:36	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			11/03/14 14:36	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			11/03/14 14:36	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			11/03/14 14:36	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			11/03/14 14:36	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			11/03/14 14:36	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			11/03/14 14:36	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			11/03/14 14:36	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			11/03/14 14:36	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			11/03/14 14:36	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			11/03/14 14:36	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			11/03/14 14:36	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			11/03/14 14:36	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			11/03/14 14:36	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			11/03/14 14:36	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			11/03/14 14:36	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			11/03/14 14:36	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			11/03/14 14:36	2
Benzene	<0.15		1.0	0.15	ug/L			11/03/14 14:36	2
Bromobenzene	<0.50		2.0	0.50	ug/L			11/03/14 14:36	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			11/03/14 14:36	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			11/03/14 14:36	2
Bromoform	<0.56		2.0	0.56	ug/L			11/03/14 14:36	2
Bromomethane	<0.62		2.0	0.62	ug/L			11/03/14 14:36	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-19D

Lab Sample ID: 500-86687-4

Date Collected: 10/21/14 15:30

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			11/03/14 14:36	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			11/03/14 14:36	2
Chloroethane	<0.68		2.0	0.68	ug/L			11/03/14 14:36	2
Chloroform	<0.40		2.0	0.40	ug/L			11/03/14 14:36	2
Chloromethane	<0.36		2.0	0.36	ug/L			11/03/14 14:36	2
cis-1,2-Dichloroethene	240		2.0	0.24	ug/L			11/03/14 14:36	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			11/03/14 14:36	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			11/03/14 14:36	2
Dibromomethane	<0.66		2.0	0.66	ug/L			11/03/14 14:36	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			11/03/14 14:36	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			11/03/14 14:36	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			11/03/14 14:36	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			11/03/14 14:36	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			11/03/14 14:36	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			11/03/14 14:36	2
Methylene Chloride	<1.4		10	1.4	ug/L			11/03/14 14:36	2
Naphthalene	<0.32		2.0	0.32	ug/L			11/03/14 14:36	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			11/03/14 14:36	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			11/03/14 14:36	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			11/03/14 14:36	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			11/03/14 14:36	2
Styrene	<0.20		2.0	0.20	ug/L			11/03/14 14:36	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			11/03/14 14:36	2
Toluene	<0.22		1.0	0.22	ug/L			11/03/14 14:36	2
trans-1,2-Dichloroethene	3.1		2.0	0.50	ug/L			11/03/14 14:36	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			11/03/14 14:36	2
Trichloroethene	140		1.0	0.38	ug/L			11/03/14 14:36	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			11/03/14 14:36	2
Vinyl chloride	4.5		1.0	0.20	ug/L			11/03/14 14:36	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			11/03/14 14:36	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 125		11/03/14 14:36	2
4-Bromofluorobenzene (Surr)	106		75 - 120		11/03/14 14:36	2
Dibromofluoromethane	99		75 - 120		11/03/14 14:36	2
Toluene-d8 (Surr)	101		75 - 120		11/03/14 14:36	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1500		20	3.4	ug/L			11/03/14 15:01	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 125		11/03/14 15:01	20
4-Bromofluorobenzene (Surr)	105		75 - 120		11/03/14 15:01	20
Dibromofluoromethane	96		75 - 120		11/03/14 15:01	20
Toluene-d8 (Surr)	106		75 - 120		11/03/14 15:01	20

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-27D

Lab Sample ID: 500-86687-5

Date Collected: 10/21/14 09:40

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/03/14 15:26	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/03/14 15:26	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/03/14 15:26	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/03/14 15:26	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/03/14 15:26	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/03/14 15:26	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/03/14 15:26	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/03/14 15:26	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/03/14 15:26	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/03/14 15:26	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 15:26	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/03/14 15:26	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/03/14 15:26	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/03/14 15:26	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/03/14 15:26	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/03/14 15:26	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/03/14 15:26	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/14 15:26	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/03/14 15:26	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/14 15:26	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/03/14 15:26	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/03/14 15:26	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/03/14 15:26	1
Benzene	<0.074		0.50	0.074	ug/L			11/03/14 15:26	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/03/14 15:26	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/03/14 15:26	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/03/14 15:26	1
Bromoform	<0.28		1.0	0.28	ug/L			11/03/14 15:26	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/03/14 15:26	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/03/14 15:26	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/03/14 15:26	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/03/14 15:26	1
Chloroform	<0.20		1.0	0.20	ug/L			11/03/14 15:26	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/03/14 15:26	1
cis-1,2-Dichloroethene	1.1		1.0	0.12	ug/L			11/03/14 15:26	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/03/14 15:26	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/03/14 15:26	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/03/14 15:26	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/03/14 15:26	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/03/14 15:26	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/03/14 15:26	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/03/14 15:26	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 15:26	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/03/14 15:26	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/03/14 15:26	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/03/14 15:26	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/03/14 15:26	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/03/14 15:26	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/03/14 15:26	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-27D

Lab Sample ID: 500-86687-5

Date Collected: 10/21/14 09:40

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/03/14 15:26	1
Styrene	<0.10		1.0	0.10	ug/L			11/03/14 15:26	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 15:26	1
Tetrachloroethene	1.7		1.0	0.17	ug/L			11/03/14 15:26	1
Toluene	<0.11		0.50	0.11	ug/L			11/03/14 15:26	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/03/14 15:26	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/03/14 15:26	1
Trichloroethene	1.7		0.50	0.19	ug/L			11/03/14 15:26	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/03/14 15:26	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/03/14 15:26	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/03/14 15:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	109		75 - 125					11/03/14 15:26	1
<i>4-Bromofluorobenzene (Surr)</i>	106		75 - 120					11/03/14 15:26	1
<i>Dibromofluoromethane</i>	100		75 - 120					11/03/14 15:26	1
<i>Toluene-d8 (Surr)</i>	105		75 - 120					11/03/14 15:26	1

Client Sample ID: MW-27D2

Lab Sample ID: 500-86687-6

Date Collected: 10/21/14 10:45

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/03/14 15:51	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/03/14 15:51	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/03/14 15:51	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/03/14 15:51	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/03/14 15:51	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/03/14 15:51	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/03/14 15:51	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/03/14 15:51	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/03/14 15:51	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/03/14 15:51	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 15:51	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/03/14 15:51	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/03/14 15:51	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/03/14 15:51	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/03/14 15:51	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/03/14 15:51	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/03/14 15:51	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/14 15:51	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/03/14 15:51	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/14 15:51	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/03/14 15:51	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/03/14 15:51	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/03/14 15:51	1
Benzene	<0.074		0.50	0.074	ug/L			11/03/14 15:51	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/03/14 15:51	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/03/14 15:51	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-27D2

Lab Sample ID: 500-86687-6

Date Collected: 10/21/14 10:45

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/03/14 15:51	1
Bromoform	<0.28		1.0	0.28	ug/L			11/03/14 15:51	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/03/14 15:51	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/03/14 15:51	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/03/14 15:51	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/03/14 15:51	1
Chloroform	<0.20		1.0	0.20	ug/L			11/03/14 15:51	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/03/14 15:51	1
cis-1,2-Dichloroethene	12		1.0	0.12	ug/L			11/03/14 15:51	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/03/14 15:51	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/03/14 15:51	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/03/14 15:51	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/03/14 15:51	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/03/14 15:51	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/03/14 15:51	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/03/14 15:51	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 15:51	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/03/14 15:51	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/03/14 15:51	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/03/14 15:51	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/03/14 15:51	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/03/14 15:51	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/03/14 15:51	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/03/14 15:51	1
Styrene	<0.10		1.0	0.10	ug/L			11/03/14 15:51	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 15:51	1
Tetrachloroethene	41		1.0	0.17	ug/L			11/03/14 15:51	1
Toluene	<0.11		0.50	0.11	ug/L			11/03/14 15:51	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/03/14 15:51	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/03/14 15:51	1
Trichloroethene	23		0.50	0.19	ug/L			11/03/14 15:51	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/03/14 15:51	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/03/14 15:51	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/03/14 15:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		75 - 125		11/03/14 15:51	1
4-Bromofluorobenzene (Surr)	108		75 - 120		11/03/14 15:51	1
Dibromofluoromethane	103		75 - 120		11/03/14 15:51	1
Toluene-d8 (Surr)	100		75 - 120		11/03/14 15:51	1

Client Sample ID: MW-20D

Lab Sample ID: 500-86687-7

Date Collected: 10/22/14 09:40

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			11/03/14 16:16	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			11/03/14 16:16	2
1,1,1,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			11/03/14 16:16	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-20D

Lab Sample ID: 500-86687-7

Date Collected: 10/22/14 09:40

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			11/03/14 16:16	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			11/03/14 16:16	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			11/03/14 16:16	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			11/03/14 16:16	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			11/03/14 16:16	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			11/03/14 16:16	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			11/03/14 16:16	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			11/03/14 16:16	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			11/03/14 16:16	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			11/03/14 16:16	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			11/03/14 16:16	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			11/03/14 16:16	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			11/03/14 16:16	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			11/03/14 16:16	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			11/03/14 16:16	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			11/03/14 16:16	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			11/03/14 16:16	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			11/03/14 16:16	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			11/03/14 16:16	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			11/03/14 16:16	2
Benzene	<0.15		1.0	0.15	ug/L			11/03/14 16:16	2
Bromobenzene	<0.50		2.0	0.50	ug/L			11/03/14 16:16	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			11/03/14 16:16	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			11/03/14 16:16	2
Bromoform	<0.56		2.0	0.56	ug/L			11/03/14 16:16	2
Bromomethane	<0.62		2.0	0.62	ug/L			11/03/14 16:16	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			11/03/14 16:16	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			11/03/14 16:16	2
Chloroethane	<0.68		2.0	0.68	ug/L			11/03/14 16:16	2
Chloroform	<0.40		2.0	0.40	ug/L			11/03/14 16:16	2
Chloromethane	<0.36		2.0	0.36	ug/L			11/03/14 16:16	2
cis-1,2-Dichloroethene	200		2.0	0.24	ug/L			11/03/14 16:16	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			11/03/14 16:16	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			11/03/14 16:16	2
Dibromomethane	<0.66		2.0	0.66	ug/L			11/03/14 16:16	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			11/03/14 16:16	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			11/03/14 16:16	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			11/03/14 16:16	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			11/03/14 16:16	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			11/03/14 16:16	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			11/03/14 16:16	2
Methylene Chloride	<1.4		10	1.4	ug/L			11/03/14 16:16	2
Naphthalene	<0.32		2.0	0.32	ug/L			11/03/14 16:16	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			11/03/14 16:16	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			11/03/14 16:16	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			11/03/14 16:16	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			11/03/14 16:16	2
Styrene	<0.20		2.0	0.20	ug/L			11/03/14 16:16	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			11/03/14 16:16	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-20D

Lab Sample ID: 500-86687-7

Date Collected: 10/22/14 09:40

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.22		1.0	0.22	ug/L			11/03/14 16:16	2
trans-1,2-Dichloroethene	2.6		2.0	0.50	ug/L			11/03/14 16:16	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			11/03/14 16:16	2
Trichloroethene	110		1.0	0.38	ug/L			11/03/14 16:16	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			11/03/14 16:16	2
Vinyl chloride	2.7		1.0	0.20	ug/L			11/03/14 16:16	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			11/03/14 16:16	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		75 - 125		11/03/14 16:16	2
4-Bromofluorobenzene (Surr)	103		75 - 120		11/03/14 16:16	2
Dibromofluoromethane	98		75 - 120		11/03/14 16:16	2
Toluene-d8 (Surr)	104		75 - 120		11/03/14 16:16	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1100		20	3.4	ug/L			11/03/14 16:40	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 125		11/03/14 16:40	20
4-Bromofluorobenzene (Surr)	104		75 - 120		11/03/14 16:40	20
Dibromofluoromethane	101		75 - 120		11/03/14 16:40	20
Toluene-d8 (Surr)	103		75 - 120		11/03/14 16:40	20

Client Sample ID: MW-20D2 QUENCHED

Lab Sample ID: 500-86687-8

Date Collected: 10/22/14 12:05

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			11/03/14 17:05	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			11/03/14 17:05	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			11/03/14 17:05	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			11/03/14 17:05	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			11/03/14 17:05	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			11/03/14 17:05	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			11/03/14 17:05	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			11/03/14 17:05	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			11/03/14 17:05	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			11/03/14 17:05	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			11/03/14 17:05	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			11/03/14 17:05	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			11/03/14 17:05	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			11/03/14 17:05	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			11/03/14 17:05	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			11/03/14 17:05	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			11/03/14 17:05	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			11/03/14 17:05	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			11/03/14 17:05	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			11/03/14 17:05	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-20D2 QUENCHED

Lab Sample ID: 500-86687-8

Date Collected: 10/22/14 12:05

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			11/03/14 17:05	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			11/03/14 17:05	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			11/03/14 17:05	2
Benzene	<0.15		1.0	0.15	ug/L			11/03/14 17:05	2
Bromobenzene	<0.50		2.0	0.50	ug/L			11/03/14 17:05	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			11/03/14 17:05	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			11/03/14 17:05	2
Bromoform	<0.56		2.0	0.56	ug/L			11/03/14 17:05	2
Bromomethane	<0.62		2.0	0.62	ug/L			11/03/14 17:05	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			11/03/14 17:05	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			11/03/14 17:05	2
Chloroethane	<0.68		2.0	0.68	ug/L			11/03/14 17:05	2
Chloroform	<0.40		2.0	0.40	ug/L			11/03/14 17:05	2
Chloromethane	<0.36		2.0	0.36	ug/L			11/03/14 17:05	2
cis-1,2-Dichloroethene	12		2.0	0.24	ug/L			11/03/14 17:05	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			11/03/14 17:05	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			11/03/14 17:05	2
Dibromomethane	<0.66		2.0	0.66	ug/L			11/03/14 17:05	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			11/03/14 17:05	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			11/03/14 17:05	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			11/03/14 17:05	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			11/03/14 17:05	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			11/03/14 17:05	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			11/03/14 17:05	2
Methylene Chloride	<1.4		10	1.4	ug/L			11/03/14 17:05	2
Naphthalene	<0.32		2.0	0.32	ug/L			11/03/14 17:05	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			11/03/14 17:05	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			11/03/14 17:05	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			11/03/14 17:05	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			11/03/14 17:05	2
Styrene	<0.20		2.0	0.20	ug/L			11/03/14 17:05	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			11/03/14 17:05	2
Toluene	<0.22		1.0	0.22	ug/L			11/03/14 17:05	2
trans-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			11/03/14 17:05	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			11/03/14 17:05	2
Trichloroethene	11		1.0	0.38	ug/L			11/03/14 17:05	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			11/03/14 17:05	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/03/14 17:05	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			11/03/14 17:05	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 125		11/03/14 17:05	2
4-Bromofluorobenzene (Surr)	106		75 - 120		11/03/14 17:05	2
Dibromofluoromethane	99		75 - 120		11/03/14 17:05	2
Toluene-d8 (Surr)	103		75 - 120		11/03/14 17:05	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	740		20	3.4	ug/L			11/03/14 17:30	20

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-20D2 QUENCHED

Lab Sample ID: 500-86687-8

Date Collected: 10/22/14 12:05

Matrix: Water

Date Received: 10/24/14 10:10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		75 - 125		11/03/14 17:30	20
4-Bromofluorobenzene (Surr)	109		75 - 120		11/03/14 17:30	20
Dibromofluoromethane	100		75 - 120		11/03/14 17:30	20
Toluene-d8 (Surr)	101		75 - 120		11/03/14 17:30	20

Client Sample ID: MW-25D2

Lab Sample ID: 500-86687-9

Date Collected: 10/22/14 15:00

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/03/14 17:54	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/03/14 17:54	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/03/14 17:54	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/03/14 17:54	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/03/14 17:54	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/03/14 17:54	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/03/14 17:54	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/03/14 17:54	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/03/14 17:54	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/03/14 17:54	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 17:54	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/03/14 17:54	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/03/14 17:54	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/03/14 17:54	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/03/14 17:54	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/03/14 17:54	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/03/14 17:54	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/14 17:54	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/03/14 17:54	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/14 17:54	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/03/14 17:54	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/03/14 17:54	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/03/14 17:54	1
Benzene	<0.074		0.50	0.074	ug/L			11/03/14 17:54	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/03/14 17:54	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/03/14 17:54	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/03/14 17:54	1
Bromoform	<0.28		1.0	0.28	ug/L			11/03/14 17:54	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/03/14 17:54	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/03/14 17:54	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/03/14 17:54	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/03/14 17:54	1
Chloroform	<0.20		1.0	0.20	ug/L			11/03/14 17:54	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/03/14 17:54	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			11/03/14 17:54	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/03/14 17:54	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/03/14 17:54	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/03/14 17:54	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/03/14 17:54	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-25D2

Lab Sample ID: 500-86687-9

Date Collected: 10/22/14 15:00

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/03/14 17:54	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/03/14 17:54	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/03/14 17:54	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 17:54	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/03/14 17:54	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/03/14 17:54	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/03/14 17:54	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/03/14 17:54	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/03/14 17:54	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/03/14 17:54	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/03/14 17:54	1
Styrene	<0.10		1.0	0.10	ug/L			11/03/14 17:54	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 17:54	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			11/03/14 17:54	1
Toluene	<0.11		0.50	0.11	ug/L			11/03/14 17:54	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/03/14 17:54	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/03/14 17:54	1
Trichloroethene	<0.19		0.50	0.19	ug/L			11/03/14 17:54	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/03/14 17:54	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/03/14 17:54	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/03/14 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 125					11/03/14 17:54	1
4-Bromofluorobenzene (Surr)	103		75 - 120					11/03/14 17:54	1
Dibromofluoromethane	101		75 - 120					11/03/14 17:54	1
Toluene-d8 (Surr)	101		75 - 120					11/03/14 17:54	1

Client Sample ID: MW-17

Lab Sample ID: 500-86687-10

Date Collected: 10/22/14 18:00

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			11/03/14 18:19	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			11/03/14 18:19	2
1,1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			11/03/14 18:19	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			11/03/14 18:19	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			11/03/14 18:19	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			11/03/14 18:19	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			11/03/14 18:19	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			11/03/14 18:19	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			11/03/14 18:19	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			11/03/14 18:19	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			11/03/14 18:19	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			11/03/14 18:19	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			11/03/14 18:19	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			11/03/14 18:19	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			11/03/14 18:19	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			11/03/14 18:19	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-17

Lab Sample ID: 500-86687-10

Date Collected: 10/22/14 18:00

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			11/03/14 18:19	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			11/03/14 18:19	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			11/03/14 18:19	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			11/03/14 18:19	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			11/03/14 18:19	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			11/03/14 18:19	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			11/03/14 18:19	2
Benzene	<0.15		1.0	0.15	ug/L			11/03/14 18:19	2
Bromobenzene	<0.50		2.0	0.50	ug/L			11/03/14 18:19	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			11/03/14 18:19	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			11/03/14 18:19	2
Bromoform	<0.56		2.0	0.56	ug/L			11/03/14 18:19	2
Bromomethane	<0.62		2.0	0.62	ug/L			11/03/14 18:19	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			11/03/14 18:19	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			11/03/14 18:19	2
Chloroethane	<0.68		2.0	0.68	ug/L			11/03/14 18:19	2
Chloroform	1.5	J	2.0	0.40	ug/L			11/03/14 18:19	2
Chloromethane	<0.36		2.0	0.36	ug/L			11/03/14 18:19	2
cis-1,2-Dichloroethene	3.4		2.0	0.24	ug/L			11/03/14 18:19	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			11/03/14 18:19	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			11/03/14 18:19	2
Dibromomethane	<0.66		2.0	0.66	ug/L			11/03/14 18:19	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			11/03/14 18:19	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			11/03/14 18:19	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			11/03/14 18:19	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			11/03/14 18:19	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			11/03/14 18:19	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			11/03/14 18:19	2
Methylene Chloride	<1.4		10	1.4	ug/L			11/03/14 18:19	2
Naphthalene	<0.32		2.0	0.32	ug/L			11/03/14 18:19	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			11/03/14 18:19	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			11/03/14 18:19	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			11/03/14 18:19	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			11/03/14 18:19	2
Styrene	<0.20		2.0	0.20	ug/L			11/03/14 18:19	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			11/03/14 18:19	2
Toluene	<0.22		1.0	0.22	ug/L			11/03/14 18:19	2
trans-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			11/03/14 18:19	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			11/03/14 18:19	2
Trichloroethene	55		1.0	0.38	ug/L			11/03/14 18:19	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			11/03/14 18:19	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/03/14 18:19	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			11/03/14 18:19	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 125		11/03/14 18:19	2
4-Bromofluorobenzene (Surr)	107		75 - 120		11/03/14 18:19	2
Dibromofluoromethane	99		75 - 120		11/03/14 18:19	2
Toluene-d8 (Surr)	103		75 - 120		11/03/14 18:19	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-17

Lab Sample ID: 500-86687-10

Date Collected: 10/22/14 18:00

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	920		20	3.4	ug/L			11/03/14 18:43	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 125					11/03/14 18:43	20
4-Bromofluorobenzene (Surr)	104		75 - 120					11/03/14 18:43	20
Dibromofluoromethane	100		75 - 120					11/03/14 18:43	20
Toluene-d8 (Surr)	103		75 - 120					11/03/14 18:43	20

Client Sample ID: MW-3S

Lab Sample ID: 500-86687-11

Date Collected: 10/22/14 18:50

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/04/14 11:35	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/04/14 11:35	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/04/14 11:35	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/04/14 11:35	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/04/14 11:35	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/04/14 11:35	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/04/14 11:35	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/04/14 11:35	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/04/14 11:35	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/04/14 11:35	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/04/14 11:35	1
1,2-Dibromo-3-Chloropropane	<0.87 *		2.0	0.87	ug/L			11/04/14 11:35	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/04/14 11:35	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/04/14 11:35	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/04/14 11:35	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/04/14 11:35	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/04/14 11:35	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/04/14 11:35	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/04/14 11:35	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/04/14 11:35	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/04/14 11:35	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/04/14 11:35	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/04/14 11:35	1
Benzene	0.67		0.50	0.074	ug/L			11/04/14 11:35	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/04/14 11:35	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/04/14 11:35	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/04/14 11:35	1
Bromoform	<0.28		1.0	0.28	ug/L			11/04/14 11:35	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/04/14 11:35	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/04/14 11:35	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/04/14 11:35	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/04/14 11:35	1
Chloroform	2.4		1.0	0.20	ug/L			11/04/14 11:35	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/04/14 11:35	1
cis-1,2-Dichloroethene	35		1.0	0.12	ug/L			11/04/14 11:35	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/04/14 11:35	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-3S

Lab Sample ID: 500-86687-11

Date Collected: 10/22/14 18:50

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/04/14 11:35	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/04/14 11:35	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/04/14 11:35	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/04/14 11:35	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/04/14 11:35	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/04/14 11:35	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/04/14 11:35	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/04/14 11:35	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/04/14 11:35	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/04/14 11:35	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/04/14 11:35	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/04/14 11:35	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/04/14 11:35	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/04/14 11:35	1
Styrene	<0.10		1.0	0.10	ug/L			11/04/14 11:35	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/04/14 11:35	1
Toluene	<0.11		0.50	0.11	ug/L			11/04/14 11:35	1
trans-1,2-Dichloroethene	2.7		1.0	0.25	ug/L			11/04/14 11:35	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/04/14 11:35	1
Trichloroethene	82		0.50	0.19	ug/L			11/04/14 11:35	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/04/14 11:35	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/04/14 11:35	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/04/14 11:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 125		11/04/14 11:35	1
4-Bromofluorobenzene (Surr)	105		75 - 120		11/04/14 11:35	1
Dibromofluoromethane	103		75 - 120		11/04/14 11:35	1
Toluene-d8 (Surr)	102		75 - 120		11/04/14 11:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	770		10	1.7	ug/L			11/04/14 11:59	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		75 - 125		11/04/14 11:59	10
4-Bromofluorobenzene (Surr)	106		75 - 120		11/04/14 11:59	10
Dibromofluoromethane	103		75 - 120		11/04/14 11:59	10
Toluene-d8 (Surr)	103		75 - 120		11/04/14 11:59	10

Client Sample ID: MW-3D2

Lab Sample ID: 500-86687-12

Date Collected: 10/23/14 09:33

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			11/04/14 12:25	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			11/04/14 12:25	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			11/04/14 12:25	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			11/04/14 12:25	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-3D2

Lab Sample ID: 500-86687-12

Date Collected: 10/23/14 09:33

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			11/04/14 12:25	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			11/04/14 12:25	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			11/04/14 12:25	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			11/04/14 12:25	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			11/04/14 12:25	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			11/04/14 12:25	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			11/04/14 12:25	2
1,2-Dibromo-3-Chloropropane	<1.7 *		4.0	1.7	ug/L			11/04/14 12:25	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			11/04/14 12:25	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			11/04/14 12:25	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			11/04/14 12:25	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			11/04/14 12:25	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			11/04/14 12:25	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			11/04/14 12:25	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			11/04/14 12:25	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			11/04/14 12:25	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			11/04/14 12:25	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			11/04/14 12:25	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			11/04/14 12:25	2
Benzene	<0.15		1.0	0.15	ug/L			11/04/14 12:25	2
Bromobenzene	<0.50		2.0	0.50	ug/L			11/04/14 12:25	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			11/04/14 12:25	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			11/04/14 12:25	2
Bromoform	<0.56		2.0	0.56	ug/L			11/04/14 12:25	2
Bromomethane	<0.62		2.0	0.62	ug/L			11/04/14 12:25	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			11/04/14 12:25	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			11/04/14 12:25	2
Chloroethane	<0.68		2.0	0.68	ug/L			11/04/14 12:25	2
Chloroform	<0.40		2.0	0.40	ug/L			11/04/14 12:25	2
Chloromethane	<0.36		2.0	0.36	ug/L			11/04/14 12:25	2
cis-1,2-Dichloroethene	230		2.0	0.24	ug/L			11/04/14 12:25	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			11/04/14 12:25	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			11/04/14 12:25	2
Dibromomethane	<0.66		2.0	0.66	ug/L			11/04/14 12:25	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			11/04/14 12:25	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			11/04/14 12:25	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			11/04/14 12:25	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			11/04/14 12:25	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			11/04/14 12:25	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			11/04/14 12:25	2
Methylene Chloride	<1.4		10	1.4	ug/L			11/04/14 12:25	2
Naphthalene	<0.32		2.0	0.32	ug/L			11/04/14 12:25	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			11/04/14 12:25	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			11/04/14 12:25	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			11/04/14 12:25	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			11/04/14 12:25	2
Styrene	<0.20		2.0	0.20	ug/L			11/04/14 12:25	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			11/04/14 12:25	2
Toluene	<0.22		1.0	0.22	ug/L			11/04/14 12:25	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-3D2

Lab Sample ID: 500-86687-12

Date Collected: 10/23/14 09:33

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	3.0		2.0	0.50	ug/L			11/04/14 12:25	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			11/04/14 12:25	2
Trichloroethene	140		1.0	0.38	ug/L			11/04/14 12:25	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			11/04/14 12:25	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/14 12:25	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			11/04/14 12:25	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 125		11/04/14 12:25	2
4-Bromofluorobenzene (Surr)	109		75 - 120		11/04/14 12:25	2
Dibromofluoromethane	100		75 - 120		11/04/14 12:25	2
Toluene-d8 (Surr)	105		75 - 120		11/04/14 12:25	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1700		20	3.4	ug/L			11/04/14 12:50	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		75 - 125		11/04/14 12:50	20
4-Bromofluorobenzene (Surr)	107		75 - 120		11/04/14 12:50	20
Dibromofluoromethane	104		75 - 120		11/04/14 12:50	20
Toluene-d8 (Surr)	104		75 - 120		11/04/14 12:50	20

Client Sample ID: DUP3

Lab Sample ID: 500-86687-13

Date Collected: 10/22/14 00:00

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.50		2.0	0.50	ug/L			11/04/14 13:15	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			11/04/14 13:15	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			11/04/14 13:15	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			11/04/14 13:15	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			11/04/14 13:15	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			11/04/14 13:15	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			11/04/14 13:15	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			11/04/14 13:15	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			11/04/14 13:15	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			11/04/14 13:15	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			11/04/14 13:15	2
1,2-Dibromo-3-Chloropropane	<1.7 *		4.0	1.7	ug/L			11/04/14 13:15	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			11/04/14 13:15	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			11/04/14 13:15	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			11/04/14 13:15	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			11/04/14 13:15	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			11/04/14 13:15	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			11/04/14 13:15	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			11/04/14 13:15	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			11/04/14 13:15	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			11/04/14 13:15	2

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: DUP3

Lab Sample ID: 500-86687-13

Date Collected: 10/22/14 00:00

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			11/04/14 13:15	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			11/04/14 13:15	2
Benzene	<0.15		1.0	0.15	ug/L			11/04/14 13:15	2
Bromobenzene	<0.50		2.0	0.50	ug/L			11/04/14 13:15	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			11/04/14 13:15	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			11/04/14 13:15	2
Bromoform	<0.56		2.0	0.56	ug/L			11/04/14 13:15	2
Bromomethane	<0.62		2.0	0.62	ug/L			11/04/14 13:15	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			11/04/14 13:15	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			11/04/14 13:15	2
Chloroethane	<0.68		2.0	0.68	ug/L			11/04/14 13:15	2
Chloroform	<0.40		2.0	0.40	ug/L			11/04/14 13:15	2
Chloromethane	<0.36		2.0	0.36	ug/L			11/04/14 13:15	2
cis-1,2-Dichloroethene	240		2.0	0.24	ug/L			11/04/14 13:15	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			11/04/14 13:15	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			11/04/14 13:15	2
Dibromomethane	<0.66		2.0	0.66	ug/L			11/04/14 13:15	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			11/04/14 13:15	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			11/04/14 13:15	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			11/04/14 13:15	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			11/04/14 13:15	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			11/04/14 13:15	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			11/04/14 13:15	2
Methylene Chloride	<1.4		10	1.4	ug/L			11/04/14 13:15	2
Naphthalene	<0.32		2.0	0.32	ug/L			11/04/14 13:15	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			11/04/14 13:15	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			11/04/14 13:15	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			11/04/14 13:15	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			11/04/14 13:15	2
Styrene	<0.20		2.0	0.20	ug/L			11/04/14 13:15	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			11/04/14 13:15	2
Toluene	<0.22		1.0	0.22	ug/L			11/04/14 13:15	2
trans-1,2-Dichloroethene	3.3		2.0	0.50	ug/L			11/04/14 13:15	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			11/04/14 13:15	2
Trichloroethene	140		1.0	0.38	ug/L			11/04/14 13:15	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			11/04/14 13:15	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/04/14 13:15	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			11/04/14 13:15	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 125		11/04/14 13:15	2
4-Bromofluorobenzene (Surr)	104		75 - 120		11/04/14 13:15	2
Dibromofluoromethane	103		75 - 120		11/04/14 13:15	2
Toluene-d8 (Surr)	104		75 - 120		11/04/14 13:15	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1700		20	3.4	ug/L			11/04/14 13:40	20

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: DUP3

Date Collected: 10/22/14 00:00

Date Received: 10/24/14 10:10

Lab Sample ID: 500-86687-13

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		75 - 125		11/04/14 13:40	20
4-Bromofluorobenzene (Surr)	107		75 - 120		11/04/14 13:40	20
Dibromofluoromethane	103		75 - 120		11/04/14 13:40	20
Toluene-d8 (Surr)	105		75 - 120		11/04/14 13:40	20

Client Sample ID: MW-21D

Date Collected: 10/23/14 10:50

Date Received: 10/24/14 10:10

Lab Sample ID: 500-86687-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/04/14 14:05	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/04/14 14:05	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/04/14 14:05	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/04/14 14:05	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/04/14 14:05	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/04/14 14:05	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/04/14 14:05	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/04/14 14:05	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/04/14 14:05	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/04/14 14:05	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/04/14 14:05	1
1,2-Dibromo-3-Chloropropane	<0.87	*	2.0	0.87	ug/L			11/04/14 14:05	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/04/14 14:05	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/04/14 14:05	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/04/14 14:05	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/04/14 14:05	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/04/14 14:05	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/04/14 14:05	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/04/14 14:05	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/04/14 14:05	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/04/14 14:05	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/04/14 14:05	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/04/14 14:05	1
Benzene	0.33	J	0.50	0.074	ug/L			11/04/14 14:05	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/04/14 14:05	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/04/14 14:05	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/04/14 14:05	1
Bromoform	<0.28		1.0	0.28	ug/L			11/04/14 14:05	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/04/14 14:05	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/04/14 14:05	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/04/14 14:05	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/04/14 14:05	1
Chloroform	0.70	J	1.0	0.20	ug/L			11/04/14 14:05	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/04/14 14:05	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/04/14 14:05	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/04/14 14:05	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/04/14 14:05	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/04/14 14:05	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/04/14 14:05	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-21D

Lab Sample ID: 500-86687-14

Date Collected: 10/23/14 10:50

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/04/14 14:05	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/04/14 14:05	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/04/14 14:05	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/04/14 14:05	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/04/14 14:05	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/04/14 14:05	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/04/14 14:05	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/04/14 14:05	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/04/14 14:05	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/04/14 14:05	1
Styrene	<0.10		1.0	0.10	ug/L			11/04/14 14:05	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/04/14 14:05	1
Toluene	<0.11		0.50	0.11	ug/L			11/04/14 14:05	1
trans-1,2-Dichloroethene	4.1		1.0	0.25	ug/L			11/04/14 14:05	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/04/14 14:05	1
Trichloroethene	170		0.50	0.19	ug/L			11/04/14 14:05	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/04/14 14:05	1
Vinyl chloride	1.3		0.50	0.10	ug/L			11/04/14 14:05	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/04/14 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 125		11/04/14 14:05	1
4-Bromofluorobenzene (Surr)	107		75 - 120		11/04/14 14:05	1
Dibromofluoromethane	105		75 - 120		11/04/14 14:05	1
Toluene-d8 (Surr)	104		75 - 120		11/04/14 14:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	230		10	1.2	ug/L			11/05/14 12:08	10
Tetrachloroethene	1200		10	1.7	ug/L			11/05/14 12:08	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		75 - 125		11/05/14 12:08	10
4-Bromofluorobenzene (Surr)	103		75 - 120		11/05/14 12:08	10
Dibromofluoromethane	102		75 - 120		11/05/14 12:08	10
Toluene-d8 (Surr)	102		75 - 120		11/05/14 12:08	10

Client Sample ID: MW-21D2 QUENCHED

Lab Sample ID: 500-86687-15

Date Collected: 10/23/14 12:03

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/04/14 14:30	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/04/14 14:30	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/04/14 14:30	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/04/14 14:30	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/04/14 14:30	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/04/14 14:30	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/04/14 14:30	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-21D2 QUENCHED

Lab Sample ID: 500-86687-15

Date Collected: 10/23/14 12:03

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/04/14 14:30	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/04/14 14:30	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/04/14 14:30	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/04/14 14:30	1
1,2-Dibromo-3-Chloropropane	<0.87	*	2.0	0.87	ug/L			11/04/14 14:30	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/04/14 14:30	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/04/14 14:30	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/04/14 14:30	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/04/14 14:30	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/04/14 14:30	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/04/14 14:30	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/04/14 14:30	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/04/14 14:30	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/04/14 14:30	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/04/14 14:30	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/04/14 14:30	1
Benzene	0.24	J	0.50	0.074	ug/L			11/04/14 14:30	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/04/14 14:30	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/04/14 14:30	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/04/14 14:30	1
Bromoform	<0.28		1.0	0.28	ug/L			11/04/14 14:30	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/04/14 14:30	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/04/14 14:30	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/04/14 14:30	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/04/14 14:30	1
Chloroform	0.81	J	1.0	0.20	ug/L			11/04/14 14:30	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/04/14 14:30	1
cis-1,2-Dichloroethene	1.3		1.0	0.12	ug/L			11/04/14 14:30	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/04/14 14:30	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/04/14 14:30	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/04/14 14:30	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/04/14 14:30	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/04/14 14:30	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/04/14 14:30	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/04/14 14:30	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/04/14 14:30	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/04/14 14:30	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/04/14 14:30	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/04/14 14:30	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/04/14 14:30	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/04/14 14:30	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/04/14 14:30	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/04/14 14:30	1
Styrene	<0.10		1.0	0.10	ug/L			11/04/14 14:30	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/04/14 14:30	1
Toluene	<0.11		0.50	0.11	ug/L			11/04/14 14:30	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/04/14 14:30	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/04/14 14:30	1
Trichloroethene	3.3		0.50	0.19	ug/L			11/04/14 14:30	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-21D2 QUENCHED

Lab Sample ID: 500-86687-15

Date Collected: 10/23/14 12:03

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/04/14 14:30	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/04/14 14:30	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/04/14 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		75 - 125		11/04/14 14:30	1
4-Bromofluorobenzene (Surr)	103		75 - 120		11/04/14 14:30	1
Dibromofluoromethane	103		75 - 120		11/04/14 14:30	1
Toluene-d8 (Surr)	107		75 - 120		11/04/14 14:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	930		10	1.7	ug/L			11/05/14 12:33	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 125		11/05/14 12:33	10
4-Bromofluorobenzene (Surr)	102		75 - 120		11/05/14 12:33	10
Dibromofluoromethane	103		75 - 120		11/05/14 12:33	10
Toluene-d8 (Surr)	99		75 - 120		11/05/14 12:33	10

Client Sample ID: MW-21D2

Lab Sample ID: 500-86687-16

Date Collected: 10/23/14 12:03

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<1.3		5.0	1.3	ug/L			11/05/14 12:58	5
1,1,1-Trichloroethane	<1.0		5.0	1.0	ug/L			11/05/14 12:58	5
1,1,2,2-Tetrachloroethane	<1.2		5.0	1.2	ug/L			11/05/14 12:58	5
1,1,2-Trichloroethane	<1.4		5.0	1.4	ug/L			11/05/14 12:58	5
1,1-Dichloroethane	<0.95		5.0	0.95	ug/L			11/05/14 12:58	5
1,1-Dichloroethene	<1.6		5.0	1.6	ug/L			11/05/14 12:58	5
1,1-Dichloropropene	<1.7		5.0	1.7	ug/L			11/05/14 12:58	5
1,2,3-Trichlorobenzene	<1.2		5.0	1.2	ug/L			11/05/14 12:58	5
1,2,3-Trichloropropane	<2.3		5.0	2.3	ug/L			11/05/14 12:58	5
1,2,4-Trichlorobenzene	<1.6		5.0	1.6	ug/L			11/05/14 12:58	5
1,2,4-Trimethylbenzene	<0.70		5.0	0.70	ug/L			11/05/14 12:58	5
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/L			11/05/14 12:58	5
1,2-Dibromoethane	<1.8		5.0	1.8	ug/L			11/05/14 12:58	5
1,2-Dichlorobenzene	<1.4		5.0	1.4	ug/L			11/05/14 12:58	5
1,2-Dichloroethane	<1.4		5.0	1.4	ug/L			11/05/14 12:58	5
1,2-Dichloropropane	<1.0		5.0	1.0	ug/L			11/05/14 12:58	5
1,3,5-Trimethylbenzene	<0.90		5.0	0.90	ug/L			11/05/14 12:58	5
1,3-Dichlorobenzene	<0.75		5.0	0.75	ug/L			11/05/14 12:58	5
1,3-Dichloropropane	<0.65		5.0	0.65	ug/L			11/05/14 12:58	5
1,4-Dichlorobenzene	<0.75		5.0	0.75	ug/L			11/05/14 12:58	5
2,2-Dichloropropane	<1.6		5.0	1.6	ug/L			11/05/14 12:58	5
2-Chlorotoluene	<1.1		5.0	1.1	ug/L			11/05/14 12:58	5
4-Chlorotoluene	<1.0		5.0	1.0	ug/L			11/05/14 12:58	5
Benzene	<0.37		2.5	0.37	ug/L			11/05/14 12:58	5

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-21D2

Lab Sample ID: 500-86687-16

Date Collected: 10/23/14 12:03

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<1.3		5.0	1.3	ug/L			11/05/14 12:58	5
Bromochloromethane	<2.0		5.0	2.0	ug/L			11/05/14 12:58	5
Bromodichloromethane	<0.85		5.0	0.85	ug/L			11/05/14 12:58	5
Bromoform	10		5.0	1.4	ug/L			11/05/14 12:58	5
Bromomethane	<1.6		5.0	1.6	ug/L			11/05/14 12:58	5
Carbon tetrachloride	<1.3		5.0	1.3	ug/L			11/05/14 12:58	5
Chlorobenzene	<0.70		5.0	0.70	ug/L			11/05/14 12:58	5
Chloroethane	<1.7		5.0	1.7	ug/L			11/05/14 12:58	5
Chloroform	<1.0		5.0	1.0	ug/L			11/05/14 12:58	5
Chloromethane	<0.90		5.0	0.90	ug/L			11/05/14 12:58	5
cis-1,2-Dichloroethene	<0.60		5.0	0.60	ug/L			11/05/14 12:58	5
cis-1,3-Dichloropropene	<0.90		5.0	0.90	ug/L			11/05/14 12:58	5
Dibromochloromethane	<1.6		5.0	1.6	ug/L			11/05/14 12:58	5
Dibromomethane	<1.7		5.0	1.7	ug/L			11/05/14 12:58	5
Dichlorodifluoromethane	<1.0		5.0	1.0	ug/L			11/05/14 12:58	5
Ethylbenzene	<0.65		2.5	0.65	ug/L			11/05/14 12:58	5
Hexachlorobutadiene	<1.3		5.0	1.3	ug/L			11/05/14 12:58	5
Isopropyl ether	<0.75		5.0	0.75	ug/L			11/05/14 12:58	5
Isopropylbenzene	<0.70		5.0	0.70	ug/L			11/05/14 12:58	5
Methyl tert-butyl ether	<1.2		5.0	1.2	ug/L			11/05/14 12:58	5
Methylene Chloride	<3.4		25	3.4	ug/L			11/05/14 12:58	5
Naphthalene	<0.80		5.0	0.80	ug/L			11/05/14 12:58	5
n-Butylbenzene	<0.65		5.0	0.65	ug/L			11/05/14 12:58	5
N-Propylbenzene	<0.65		5.0	0.65	ug/L			11/05/14 12:58	5
p-Isopropyltoluene	<0.85		5.0	0.85	ug/L			11/05/14 12:58	5
sec-Butylbenzene	<0.75		5.0	0.75	ug/L			11/05/14 12:58	5
Styrene	<0.50		5.0	0.50	ug/L			11/05/14 12:58	5
tert-Butylbenzene	<0.70		5.0	0.70	ug/L			11/05/14 12:58	5
Tetrachloroethene	6.4		5.0	0.85	ug/L			11/05/14 12:58	5
Toluene	<0.55		2.5	0.55	ug/L			11/05/14 12:58	5
trans-1,2-Dichloroethene	<1.3		5.0	1.3	ug/L			11/05/14 12:58	5
trans-1,3-Dichloropropene	<1.1		5.0	1.1	ug/L			11/05/14 12:58	5
Trichloroethene	<0.95		2.5	0.95	ug/L			11/05/14 12:58	5
Trichlorofluoromethane	<0.95		5.0	0.95	ug/L			11/05/14 12:58	5
Vinyl chloride	<0.50		2.5	0.50	ug/L			11/05/14 12:58	5
Xylenes, Total	<0.34		5.0	0.34	ug/L			11/05/14 12:58	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		75 - 125		11/05/14 12:58	5
4-Bromofluorobenzene (Surr)	108		75 - 120		11/05/14 12:58	5
Dibromofluoromethane	103		75 - 120		11/05/14 12:58	5
Toluene-d8 (Surr)	81		75 - 120		11/05/14 12:58	5

Client Sample ID: MW-18S

Lab Sample ID: 500-86687-17

Date Collected: 10/23/14 13:09

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/04/14 15:20	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-18S

Lab Sample ID: 500-86687-17

Date Collected: 10/23/14 13:09

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/04/14 15:20	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/04/14 15:20	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/04/14 15:20	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/04/14 15:20	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/04/14 15:20	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/04/14 15:20	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/04/14 15:20	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/04/14 15:20	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/04/14 15:20	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/04/14 15:20	1
1,2-Dibromo-3-Chloropropane	<0.87 *		2.0	0.87	ug/L			11/04/14 15:20	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/04/14 15:20	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/04/14 15:20	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/04/14 15:20	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/04/14 15:20	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/04/14 15:20	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/04/14 15:20	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/04/14 15:20	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/04/14 15:20	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/04/14 15:20	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/04/14 15:20	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/04/14 15:20	1
Benzene	0.46 J		0.50	0.074	ug/L			11/04/14 15:20	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/04/14 15:20	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/04/14 15:20	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/04/14 15:20	1
Bromoform	<0.28		1.0	0.28	ug/L			11/04/14 15:20	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/04/14 15:20	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/04/14 15:20	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/04/14 15:20	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/04/14 15:20	1
Chloroform	2.0		1.0	0.20	ug/L			11/04/14 15:20	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/04/14 15:20	1
cis-1,2-Dichloroethene	26		1.0	0.12	ug/L			11/04/14 15:20	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/04/14 15:20	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/04/14 15:20	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/04/14 15:20	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/04/14 15:20	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/04/14 15:20	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/04/14 15:20	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/04/14 15:20	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/04/14 15:20	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/04/14 15:20	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/04/14 15:20	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/04/14 15:20	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/04/14 15:20	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/04/14 15:20	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/04/14 15:20	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/04/14 15:20	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-18S

Lab Sample ID: 500-86687-17

Date Collected: 10/23/14 13:09

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.10		1.0	0.10	ug/L			11/04/14 15:20	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/04/14 15:20	1
Toluene	<0.11		0.50	0.11	ug/L			11/04/14 15:20	1
trans-1,2-Dichloroethene	1.9		1.0	0.25	ug/L			11/04/14 15:20	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/04/14 15:20	1
Trichloroethene	65		0.50	0.19	ug/L			11/04/14 15:20	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/04/14 15:20	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/04/14 15:20	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/04/14 15:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 125					11/04/14 15:20	1
4-Bromofluorobenzene (Surr)	108		75 - 120					11/04/14 15:20	1
Dibromofluoromethane	102		75 - 120					11/04/14 15:20	1
Toluene-d8 (Surr)	105		75 - 120					11/04/14 15:20	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	520		10	1.7	ug/L			11/05/14 13:23	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 125					11/05/14 13:23	10
4-Bromofluorobenzene (Surr)	104		75 - 120					11/05/14 13:23	10
Dibromofluoromethane	101		75 - 120					11/05/14 13:23	10
Toluene-d8 (Surr)	103		75 - 120					11/05/14 13:23	10

Client Sample ID: MW-1

Lab Sample ID: 500-86687-18

Date Collected: 10/23/14 15:47

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/03/14 19:08	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/03/14 19:08	1
1,1,1,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/03/14 19:08	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/03/14 19:08	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/03/14 19:08	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/03/14 19:08	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/03/14 19:08	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/03/14 19:08	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/03/14 19:08	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/03/14 19:08	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 19:08	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/03/14 19:08	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/03/14 19:08	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/03/14 19:08	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/03/14 19:08	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/03/14 19:08	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/03/14 19:08	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/14 19:08	1

TestAmerica Chicago

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-1

Lab Sample ID: 500-86687-18

Date Collected: 10/23/14 15:47

Matrix: Water

Date Received: 10/24/14 10:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/03/14 19:08	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/14 19:08	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/03/14 19:08	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/03/14 19:08	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/03/14 19:08	1
Benzene	<0.074		0.50	0.074	ug/L			11/03/14 19:08	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/03/14 19:08	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/03/14 19:08	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/03/14 19:08	1
Bromoform	<0.28		1.0	0.28	ug/L			11/03/14 19:08	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/03/14 19:08	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/03/14 19:08	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/03/14 19:08	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/03/14 19:08	1
Chloroform	<0.20		1.0	0.20	ug/L			11/03/14 19:08	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/03/14 19:08	1
cis-1,2-Dichloroethene	22		1.0	0.12	ug/L			11/03/14 19:08	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/03/14 19:08	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/03/14 19:08	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/03/14 19:08	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/03/14 19:08	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/03/14 19:08	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/03/14 19:08	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/03/14 19:08	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 19:08	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/03/14 19:08	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/03/14 19:08	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/03/14 19:08	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/03/14 19:08	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/03/14 19:08	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/03/14 19:08	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/03/14 19:08	1
Styrene	<0.10		1.0	0.10	ug/L			11/03/14 19:08	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 19:08	1
Tetrachloroethene	16		1.0	0.17	ug/L			11/03/14 19:08	1
Toluene	<0.11		0.50	0.11	ug/L			11/03/14 19:08	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/03/14 19:08	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/03/14 19:08	1
Trichloroethene	19		0.50	0.19	ug/L			11/03/14 19:08	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/03/14 19:08	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/03/14 19:08	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/03/14 19:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		75 - 125		11/03/14 19:08	1
4-Bromofluorobenzene (Surr)	103		75 - 120		11/03/14 19:08	1
Dibromofluoromethane	103		75 - 120		11/03/14 19:08	1
Toluene-d8 (Surr)	104		75 - 120		11/03/14 19:08	1

TestAmerica Chicago

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

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.
*	LCS or LCSD exceeds the 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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
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
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)

QC Association Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

GC/MS VOA

Analysis Batch: 262215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86687-1	MW-5D2	Total/NA	Water	8260B	
500-86687-2	MW-5S	Total/NA	Water	8260B	
500-86687-3	MW-5D	Total/NA	Water	8260B	
500-86687-4	MW-19D	Total/NA	Water	8260B	
500-86687-4 - DL	MW-19D	Total/NA	Water	8260B	
500-86687-5	MW-27D	Total/NA	Water	8260B	
500-86687-6	MW-27D2	Total/NA	Water	8260B	
500-86687-7	MW-20D	Total/NA	Water	8260B	
500-86687-7 - DL	MW-20D	Total/NA	Water	8260B	
500-86687-8	MW-20D2 QUENCHED	Total/NA	Water	8260B	
500-86687-8 - DL	MW-20D2 QUENCHED	Total/NA	Water	8260B	
500-86687-9	MW-25D2	Total/NA	Water	8260B	
500-86687-10	MW-17	Total/NA	Water	8260B	
500-86687-10 - DL	MW-17	Total/NA	Water	8260B	
500-86687-18	MW-1	Total/NA	Water	8260B	
500-86687-18 MS	MW-1	Total/NA	Water	8260B	
500-86687-18 MSD	MW-1	Total/NA	Water	8260B	
LCS 500-262215/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-262215/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 262407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86687-11	MW-3S	Total/NA	Water	8260B	
500-86687-11 - DL	MW-3S	Total/NA	Water	8260B	
500-86687-12	MW-3D2	Total/NA	Water	8260B	
500-86687-12 - DL	MW-3D2	Total/NA	Water	8260B	
500-86687-13	DUP3	Total/NA	Water	8260B	
500-86687-13 - DL	DUP3	Total/NA	Water	8260B	
500-86687-14	MW-21D	Total/NA	Water	8260B	
500-86687-15	MW-21D2 QUENCHED	Total/NA	Water	8260B	
500-86687-17	MW-18S	Total/NA	Water	8260B	
LCS 500-262407/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-262407/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 262626

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-86687-14 - DL	MW-21D	Total/NA	Water	8260B	
500-86687-15 - DL	MW-21D2 QUENCHED	Total/NA	Water	8260B	
500-86687-16	MW-21D2	Total/NA	Water	8260B	
500-86687-17 - DL	MW-18S	Total/NA	Water	8260B	
LCS 500-262626/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-262626/6	Method Blank	Total/NA	Water	8260B	

Surrogate Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-125)	BFB (75-120)	DBFM (75-120)	TOL (75-120)
500-86687-1	MW-5D2	111	105	105	98
500-86687-2	MW-5S	107	106	99	106
500-86687-3	MW-5D	112	107	101	102
500-86687-4	MW-19D	106	106	99	101
500-86687-4 - DL	MW-19D	105	105	96	106
500-86687-5	MW-27D	109	106	100	105
500-86687-6	MW-27D2	110	108	103	100
500-86687-7	MW-20D	110	103	98	104
500-86687-7 - DL	MW-20D	108	104	101	103
500-86687-8	MW-20D2 QUENCHED	108	106	99	103
500-86687-8 - DL	MW-20D2 QUENCHED	110	109	100	101
500-86687-9	MW-25D2	113	103	101	101
500-86687-10	MW-17	108	107	99	103
500-86687-10 - DL	MW-17	112	104	100	103
500-86687-11 - DL	MW-3S	111	106	103	103
500-86687-11	MW-3S	112	105	103	102
500-86687-12	MW-3D2	113	109	100	105
500-86687-12 - DL	MW-3D2	116	107	104	104
500-86687-13	DUP3	113	104	103	104
500-86687-13 - DL	DUP3	115	107	103	105
500-86687-14	MW-21D	114	107	105	104
500-86687-14 - DL	MW-21D	111	103	102	102
500-86687-15	MW-21D2 QUENCHED	110	103	103	107
500-86687-15 - DL	MW-21D2 QUENCHED	112	102	103	99
500-86687-16	MW-21D2	111	108	103	81
500-86687-17	MW-18S	113	108	102	105
500-86687-17 - DL	MW-18S	113	104	101	103
500-86687-18	MW-1	111	103	103	104
500-86687-18 MS	MW-1	112	107	103	104
500-86687-18 MSD	MW-1	109	106	105	102
LCS 500-262215/4	Lab Control Sample	109	107	100	105
LCS 500-262407/4	Lab Control Sample	110	102	101	110
LCS 500-262626/4	Lab Control Sample	112	107	102	107
MB 500-262215/6	Method Blank	110	107	101	105
MB 500-262407/6	Method Blank	115	106	101	103
MB 500-262626/6	Method Blank	109	107	102	102

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

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

Lab Sample ID: MB 500-262215/6

Matrix: Water

Analysis Batch: 262215

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/03/14 10:53	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/03/14 10:53	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/03/14 10:53	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/03/14 10:53	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/03/14 10:53	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/03/14 10:53	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/03/14 10:53	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/03/14 10:53	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/03/14 10:53	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/03/14 10:53	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 10:53	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/03/14 10:53	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/03/14 10:53	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/03/14 10:53	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/03/14 10:53	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/03/14 10:53	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/03/14 10:53	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/14 10:53	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/03/14 10:53	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/03/14 10:53	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/03/14 10:53	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/03/14 10:53	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/03/14 10:53	1
Benzene	<0.074		0.50	0.074	ug/L			11/03/14 10:53	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/03/14 10:53	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/03/14 10:53	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/03/14 10:53	1
Bromoform	<0.28		1.0	0.28	ug/L			11/03/14 10:53	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/03/14 10:53	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/03/14 10:53	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/03/14 10:53	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/03/14 10:53	1
Chloroform	<0.20		1.0	0.20	ug/L			11/03/14 10:53	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/03/14 10:53	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			11/03/14 10:53	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/03/14 10:53	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/03/14 10:53	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/03/14 10:53	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/03/14 10:53	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/03/14 10:53	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/03/14 10:53	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/03/14 10:53	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 10:53	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/03/14 10:53	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/03/14 10:53	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/03/14 10:53	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/03/14 10:53	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/03/14 10:53	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

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

Lab Sample ID: MB 500-262215/6

Matrix: Water

Analysis Batch: 262215

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/03/14 10:53	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/03/14 10:53	1
Styrene	<0.10		1.0	0.10	ug/L			11/03/14 10:53	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/03/14 10:53	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			11/03/14 10:53	1
Toluene	<0.11		0.50	0.11	ug/L			11/03/14 10:53	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/03/14 10:53	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/03/14 10:53	1
Trichloroethene	<0.19		0.50	0.19	ug/L			11/03/14 10:53	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/03/14 10:53	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/03/14 10:53	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/03/14 10:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		75 - 125		11/03/14 10:53	1
4-Bromofluorobenzene (Surr)	107		75 - 120		11/03/14 10:53	1
Dibromofluoromethane	101		75 - 120		11/03/14 10:53	1
Toluene-d8 (Surr)	105		75 - 120		11/03/14 10:53	1

Lab Sample ID: LCS 500-262215/4

Matrix: Water

Analysis Batch: 262215

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	50.9		ug/L		102	75 - 122
1,1,1-Trichloroethane	50.0	46.3		ug/L		93	72 - 130
1,1,1,2-Tetrachloroethane	50.0	55.9		ug/L		112	72 - 130
1,1,2-Trichloroethane	50.0	55.1		ug/L		110	75 - 120
1,1-Dichloroethane	50.0	44.7		ug/L		89	75 - 120
1,1-Dichloroethene	50.0	43.0		ug/L		86	69 - 120
1,1-Dichloropropene	50.0	49.7		ug/L		99	75 - 130
1,2,3-Trichlorobenzene	50.0	59.5		ug/L		119	69 - 131
1,2,3-Trichloropropane	50.0	59.4		ug/L		119	65 - 132
1,2,4-Trichlorobenzene	50.0	57.3		ug/L		115	73 - 130
1,2,4-Trimethylbenzene	50.0	51.2		ug/L		102	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	61.0		ug/L		122	62 - 130
1,2-Dibromoethane	50.0	53.9		ug/L		108	78 - 122
1,2-Dichlorobenzene	50.0	53.7		ug/L		107	75 - 120
1,2-Dichloroethane	50.0	50.9		ug/L		102	69 - 130
1,2-Dichloropropane	50.0	48.8		ug/L		98	75 - 120
1,3,5-Trimethylbenzene	50.0	53.5		ug/L		107	75 - 121
1,3-Dichlorobenzene	50.0	53.4		ug/L		107	75 - 120
1,3-Dichloropropane	50.0	54.7		ug/L		109	77 - 124
1,4-Dichlorobenzene	50.0	51.3		ug/L		103	75 - 120
2,2-Dichloropropane	50.0	42.0		ug/L		84	65 - 132
2-Chlorotoluene	50.0	51.0		ug/L		102	75 - 120
4-Chlorotoluene	50.0	52.0		ug/L		104	75 - 120
Benzene	50.0	47.0		ug/L		94	75 - 120

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

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

Lab Sample ID: LCS 500-262215/4

Matrix: Water

Analysis Batch: 262215

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	53.5		ug/L		107	75 - 120
Bromochloromethane	50.0	45.9		ug/L		92	76 - 120
Bromodichloromethane	50.0	53.2		ug/L		106	77 - 121
Bromoform	50.0	55.2		ug/L		110	68 - 126
Bromomethane	50.0	42.1		ug/L		84	45 - 169
Carbon tetrachloride	50.0	48.3		ug/L		97	70 - 130
Chlorobenzene	50.0	50.7		ug/L		101	75 - 120
Chloroethane	50.0	39.9		ug/L		80	58 - 147
Chloroform	50.0	48.9		ug/L		98	76 - 120
Chloromethane	50.0	46.8		ug/L		94	63 - 133
cis-1,2-Dichloroethene	50.0	45.6		ug/L		91	75 - 120
cis-1,3-Dichloropropene	50.0	55.4		ug/L		111	78 - 130
Dibromochloromethane	50.0	55.6		ug/L		111	71 - 126
Dibromomethane	50.0	47.9		ug/L		96	75 - 120
Dichlorodifluoromethane	50.0	58.5		ug/L		117	41 - 146
Ethylbenzene	50.0	52.2		ug/L		104	75 - 120
Hexachlorobutadiene	50.0	55.5		ug/L		111	71 - 131
Isopropylbenzene	50.0	53.1		ug/L		106	75 - 121
Methyl tert-butyl ether	50.0	46.0		ug/L		92	75 - 130
Methylene Chloride	50.0	42.0		ug/L		84	73 - 130
Naphthalene	50.0	61.0		ug/L		122	69 - 135
n-Butylbenzene	50.0	53.1		ug/L		106	75 - 121
N-Propylbenzene	50.0	53.4		ug/L		107	75 - 120
p-Isopropyltoluene	50.0	53.4		ug/L		107	75 - 121
sec-Butylbenzene	50.0	52.2		ug/L		104	75 - 120
Styrene	50.0	49.6		ug/L		99	75 - 120
tert-Butylbenzene	50.0	52.0		ug/L		104	75 - 123
Tetrachloroethene	50.0	52.5		ug/L		105	75 - 120
Toluene	50.0	52.2		ug/L		104	75 - 120
trans-1,2-Dichloroethene	50.0	43.1		ug/L		86	77 - 120
trans-1,3-Dichloropropene	50.0	54.9		ug/L		110	74 - 130
Trichloroethene	50.0	51.4		ug/L		103	75 - 120
Trichlorofluoromethane	50.0	48.2		ug/L		96	71 - 130
Vinyl chloride	50.0	48.3		ug/L		97	72 - 123
Xylenes, Total	100	101		ug/L		101	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	109		75 - 125
4-Bromofluorobenzene (Surr)	107		75 - 120
Dibromofluoromethane	100		75 - 120
Toluene-d8 (Surr)	105		75 - 120

Lab Sample ID: 500-86687-18 MS

Matrix: Water

Analysis Batch: 262215

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<0.25		50.0	52.2		ug/L		104	75 - 122

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

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

Lab Sample ID: 500-86687-18 MS

Matrix: Water

Analysis Batch: 262215

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,1,1-Trichloroethane	<0.20		50.0	48.7		ug/L		97	72 - 130
1,1,2,2-Tetrachloroethane	<0.23		50.0	61.0		ug/L		122	72 - 130
1,1,2-Trichloroethane	<0.28		50.0	55.8		ug/L		112	75 - 120
1,1-Dichloroethane	<0.19		50.0	46.0		ug/L		92	75 - 120
1,1-Dichloroethene	<0.31		50.0	44.1		ug/L		88	69 - 120
1,1-Dichloropropene	<0.34		50.0	48.1		ug/L		96	75 - 130
1,2,3-Trichlorobenzene	<0.24		50.0	58.5		ug/L		117	69 - 131
1,2,3-Trichloropropane	<0.45		50.0	60.9		ug/L		122	65 - 132
1,2,4-Trichlorobenzene	<0.31		50.0	52.8		ug/L		106	73 - 130
1,2,4-Trimethylbenzene	<0.14		50.0	52.9		ug/L		106	75 - 121
1,2-Dibromo-3-Chloropropane	<0.87		50.0	61.6		ug/L		123	62 - 130
1,2-Dibromoethane	<0.36		50.0	53.3		ug/L		107	78 - 122
1,2-Dichlorobenzene	<0.27		50.0	54.5		ug/L		109	75 - 120
1,2-Dichloroethane	<0.28		50.0	53.1		ug/L		106	69 - 130
1,2-Dichloropropane	<0.20		50.0	50.1		ug/L		100	75 - 120
1,3,5-Trimethylbenzene	<0.18		50.0	54.4		ug/L		109	75 - 121
1,3-Dichlorobenzene	<0.15		50.0	52.2		ug/L		104	75 - 120
1,3-Dichloropropane	<0.13		50.0	55.2		ug/L		110	77 - 124
1,4-Dichlorobenzene	<0.15		50.0	51.7		ug/L		103	75 - 120
2,2-Dichloropropane	<0.32		50.0	44.3		ug/L		89	65 - 132
2-Chlorotoluene	<0.21		50.0	53.1		ug/L		106	75 - 120
4-Chlorotoluene	<0.20		50.0	51.4		ug/L		103	75 - 120
Benzene	<0.074		50.0	47.5		ug/L		95	75 - 120
Bromobenzene	<0.25		50.0	54.4		ug/L		109	75 - 120
Bromochloromethane	<0.40		50.0	51.0		ug/L		102	76 - 120
Bromodichloromethane	<0.17		50.0	53.6		ug/L		107	77 - 121
Bromoform	<0.28		50.0	56.1		ug/L		112	68 - 126
Bromomethane	<0.31		50.0	43.1		ug/L		86	45 - 169
Carbon tetrachloride	<0.26		50.0	49.9		ug/L		100	70 - 130
Chlorobenzene	<0.14		50.0	50.8		ug/L		102	75 - 120
Chloroethane	<0.34		50.0	40.6		ug/L		81	58 - 147
Chloroform	<0.20		50.0	51.5		ug/L		103	76 - 120
Chloromethane	<0.18		50.0	50.3		ug/L		101	63 - 133
cis-1,2-Dichloroethene	22		50.0	70.1		ug/L		96	75 - 120
cis-1,3-Dichloropropene	<0.18		50.0	53.0		ug/L		106	78 - 130
Dibromochloromethane	<0.32		50.0	55.1		ug/L		110	71 - 126
Dibromomethane	<0.33		50.0	51.7		ug/L		103	75 - 120
Dichlorodifluoromethane	<0.20		50.0	63.1		ug/L		126	41 - 146
Ethylbenzene	<0.13		50.0	50.9		ug/L		102	75 - 120
Hexachlorobutadiene	<0.26		50.0	54.9		ug/L		110	71 - 131
Isopropylbenzene	<0.14		50.0	54.3		ug/L		109	75 - 121
Methyl tert-butyl ether	<0.24		50.0	48.3		ug/L		97	75 - 130
Methylene Chloride	<0.68		50.0	46.1		ug/L		92	73 - 130
Naphthalene	<0.16		50.0	62.7		ug/L		125	69 - 135
n-Butylbenzene	<0.13		50.0	50.7		ug/L		101	75 - 121
N-Propylbenzene	<0.13		50.0	53.5		ug/L		107	75 - 120
p-Isopropyltoluene	<0.17		50.0	54.0		ug/L		108	75 - 121
sec-Butylbenzene	<0.15		50.0	53.3		ug/L		107	75 - 120

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

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

Lab Sample ID: 500-86687-18 MS

Matrix: Water

Analysis Batch: 262215

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits	
	Result	Qualifier	Added	Result	Qualifier					
Styrene	<0.10		50.0	50.9		ug/L		102	75 - 120	
tert-Butylbenzene	<0.14		50.0	53.7		ug/L		107	75 - 123	
Tetrachloroethene	16		50.0	65.4		ug/L		98	75 - 120	
Toluene	<0.11		50.0	51.6		ug/L		103	75 - 120	
trans-1,2-Dichloroethene	<0.25		50.0	46.9		ug/L		94	77 - 120	
trans-1,3-Dichloropropene	<0.21		50.0	53.5		ug/L		107	74 - 130	
Trichloroethene	19		50.0	69.0		ug/L		99	75 - 120	
Trichlorofluoromethane	<0.19		50.0	48.5		ug/L		97	71 - 130	
Vinyl chloride	<0.10		50.0	49.5		ug/L		99	72 - 123	
Xylenes, Total	<0.068		100	99.9		ug/L		100	75 - 120	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	112		75 - 125							
4-Bromofluorobenzene (Surr)	107		75 - 120							
Dibromofluoromethane	103		75 - 120							
Toluene-d8 (Surr)	104		75 - 120							

Lab Sample ID: 500-86687-18 MSD

Matrix: Water

Analysis Batch: 262215

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier	Added	Result	Qualifier						
1,1,1,2-Tetrachloroethane	<0.25		50.0	54.2		ug/L		108	75 - 122	4	20
1,1,1-Trichloroethane	<0.20		50.0	51.9		ug/L		104	72 - 130	6	20
1,1,1,2,2-Tetrachloroethane	<0.23		50.0	58.3		ug/L		117	72 - 130	5	20
1,1,2-Trichloroethane	<0.28		50.0	57.0		ug/L		114	75 - 120	2	20
1,1-Dichloroethane	<0.19		50.0	48.5		ug/L		97	75 - 120	5	20
1,1-Dichloroethene	<0.31		50.0	44.8		ug/L		90	69 - 120	1	20
1,1-Dichloropropene	<0.34		50.0	50.6		ug/L		101	75 - 130	5	20
1,2,3-Trichlorobenzene	<0.24		50.0	61.6		ug/L		123	69 - 131	5	20
1,2,3-Trichloropropane	<0.45		50.0	61.0		ug/L		122	65 - 132	0	20
1,2,4-Trichlorobenzene	<0.31		50.0	55.9		ug/L		112	73 - 130	6	20
1,2,4-Trimethylbenzene	<0.14		50.0	53.9		ug/L		108	75 - 121	2	20
1,2-Dibromo-3-Chloropropane	<0.87		50.0	63.3		ug/L		127	62 - 130	3	20
1,2-Dibromoethane	<0.36		50.0	57.0		ug/L		114	78 - 122	7	20
1,2-Dichlorobenzene	<0.27		50.0	56.3		ug/L		113	75 - 120	3	20
1,2-Dichloroethane	<0.28		50.0	54.6		ug/L		109	69 - 130	3	20
1,2-Dichloropropane	<0.20		50.0	50.7		ug/L		101	75 - 120	1	20
1,3,5-Trimethylbenzene	<0.18		50.0	55.5		ug/L		111	75 - 121	2	20
1,3-Dichlorobenzene	<0.15		50.0	54.7		ug/L		109	75 - 120	5	20
1,3-Dichloropropane	<0.13		50.0	56.7		ug/L		113	77 - 124	3	20
1,4-Dichlorobenzene	<0.15		50.0	54.0		ug/L		108	75 - 120	4	20
2,2-Dichloropropane	<0.32		50.0	47.9		ug/L		96	65 - 132	8	20
2-Chlorotoluene	<0.21		50.0	54.0		ug/L		108	75 - 120	2	20
4-Chlorotoluene	<0.20		50.0	53.5		ug/L		107	75 - 120	4	20
Benzene	<0.074		50.0	49.2		ug/L		98	75 - 120	4	20
Bromobenzene	<0.25		50.0	55.7		ug/L		111	75 - 120	2	20
Bromochloromethane	<0.40		50.0	51.6		ug/L		103	76 - 120	1	20

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

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

Lab Sample ID: 500-86687-18 MSD

Matrix: Water

Analysis Batch: 262215

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Bromodichloromethane	<0.17		50.0	54.4		ug/L		109	77 - 121	1	20
Bromoform	<0.28		50.0	57.1		ug/L		114	68 - 126	2	20
Bromomethane	<0.31		50.0	46.0		ug/L		92	45 - 169	7	20
Carbon tetrachloride	<0.26		50.0	51.5		ug/L		103	70 - 130	3	20
Chlorobenzene	<0.14		50.0	51.9		ug/L		104	75 - 120	2	20
Chloroethane	<0.34		50.0	43.8		ug/L		88	58 - 147	8	20
Chloroform	<0.20		50.0	53.4		ug/L		107	76 - 120	4	20
Chloromethane	<0.18		50.0	50.6		ug/L		101	63 - 133	1	20
cis-1,2-Dichloroethene	22		50.0	71.5		ug/L		99	75 - 120	2	20
cis-1,3-Dichloropropene	<0.18		50.0	53.2		ug/L		106	78 - 130	0	20
Dibromochloromethane	<0.32		50.0	56.3		ug/L		113	71 - 126	2	20
Dibromomethane	<0.33		50.0	52.0		ug/L		104	75 - 120	0	20
Dichlorodifluoromethane	<0.20		50.0	63.8		ug/L		128	41 - 146	1	20
Ethylbenzene	<0.13		50.0	53.2		ug/L		106	75 - 120	4	20
Hexachlorobutadiene	<0.26		50.0	56.0		ug/L		112	71 - 131	2	20
Isopropylbenzene	<0.14		50.0	54.6		ug/L		109	75 - 121	1	20
Methyl tert-butyl ether	<0.24		50.0	51.4		ug/L		103	75 - 130	6	20
Methylene Chloride	<0.68		50.0	47.5		ug/L		95	73 - 130	3	20
Naphthalene	<0.16		50.0	65.4		ug/L		131	69 - 135	4	20
n-Butylbenzene	<0.13		50.0	53.5		ug/L		107	75 - 121	5	20
N-Propylbenzene	<0.13		50.0	54.5		ug/L		109	75 - 120	2	20
p-Isopropyltoluene	<0.17		50.0	54.9		ug/L		110	75 - 121	2	20
sec-Butylbenzene	<0.15		50.0	54.7		ug/L		109	75 - 120	2	20
Styrene	<0.10		50.0	52.1		ug/L		104	75 - 120	2	20
tert-Butylbenzene	<0.14		50.0	53.5		ug/L		107	75 - 123	0	20
Tetrachloroethene	16		50.0	68.5		ug/L		104	75 - 120	5	20
Toluene	<0.11		50.0	51.8		ug/L		104	75 - 120	0	20
trans-1,2-Dichloroethene	<0.25		50.0	48.7		ug/L		97	77 - 120	4	20
trans-1,3-Dichloropropene	<0.21		50.0	53.0		ug/L		106	74 - 130	1	20
Trichloroethene	19		50.0	69.5		ug/L		100	75 - 120	1	20
Trichlorofluoromethane	<0.19		50.0	53.7		ug/L		107	71 - 130	10	20
Vinyl chloride	<0.10		50.0	50.5		ug/L		101	72 - 123	2	20
Xylenes, Total	<0.068		100	103		ug/L		103	75 - 120	3	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	109		75 - 125
4-Bromofluorobenzene (Surr)	106		75 - 120
Dibromofluoromethane	105		75 - 120
Toluene-d8 (Surr)	102		75 - 120

Lab Sample ID: MB 500-262407/6

Matrix: Water

Analysis Batch: 262407

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/04/14 10:45	1
1,1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/04/14 10:45	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/04/14 10:45	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

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

Lab Sample ID: MB 500-262407/6

Matrix: Water

Analysis Batch: 262407

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/04/14 10:45	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/04/14 10:45	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/04/14 10:45	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/04/14 10:45	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/04/14 10:45	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/04/14 10:45	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/04/14 10:45	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/04/14 10:45	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/04/14 10:45	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/04/14 10:45	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/04/14 10:45	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/04/14 10:45	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/04/14 10:45	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/04/14 10:45	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/04/14 10:45	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/04/14 10:45	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/04/14 10:45	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/04/14 10:45	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/04/14 10:45	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/04/14 10:45	1
Benzene	<0.074		0.50	0.074	ug/L			11/04/14 10:45	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/04/14 10:45	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/04/14 10:45	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/04/14 10:45	1
Bromoform	<0.28		1.0	0.28	ug/L			11/04/14 10:45	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/04/14 10:45	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/04/14 10:45	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/04/14 10:45	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/04/14 10:45	1
Chloroform	<0.20		1.0	0.20	ug/L			11/04/14 10:45	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/04/14 10:45	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			11/04/14 10:45	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/04/14 10:45	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/04/14 10:45	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/04/14 10:45	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/04/14 10:45	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/04/14 10:45	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/04/14 10:45	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/04/14 10:45	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/04/14 10:45	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/04/14 10:45	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/04/14 10:45	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/04/14 10:45	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/04/14 10:45	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/04/14 10:45	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/04/14 10:45	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/04/14 10:45	1
Styrene	<0.10		1.0	0.10	ug/L			11/04/14 10:45	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

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

Lab Sample ID: MB 500-262407/6

Matrix: Water

Analysis Batch: 262407

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/04/14 10:45	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			11/04/14 10:45	1
Toluene	<0.11		0.50	0.11	ug/L			11/04/14 10:45	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/04/14 10:45	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/04/14 10:45	1
Trichloroethene	<0.19		0.50	0.19	ug/L			11/04/14 10:45	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/04/14 10:45	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/04/14 10:45	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/04/14 10:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		75 - 125		11/04/14 10:45	1
4-Bromofluorobenzene (Surr)	106		75 - 120		11/04/14 10:45	1
Dibromofluoromethane	101		75 - 120		11/04/14 10:45	1
Toluene-d8 (Surr)	103		75 - 120		11/04/14 10:45	1

Lab Sample ID: LCS 500-262407/4

Matrix: Water

Analysis Batch: 262407

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	58.0		ug/L		116	75 - 122
1,1,1-Trichloroethane	50.0	46.4		ug/L		93	72 - 130
1,1,1,2-Tetrachloroethane	50.0	60.5		ug/L		121	72 - 130
1,1,2-Trichloroethane	50.0	59.2		ug/L		118	75 - 120
1,1-Dichloroethane	50.0	45.0		ug/L		90	75 - 120
1,1-Dichloroethene	50.0	44.5		ug/L		89	69 - 120
1,1-Dichloropropene	50.0	51.3		ug/L		103	75 - 130
1,2,3-Trichlorobenzene	50.0	62.4		ug/L		125	69 - 131
1,2,3-Trichloropropane	50.0	63.3		ug/L		127	65 - 132
1,2,4-Trichlorobenzene	50.0	58.7		ug/L		117	73 - 130
1,2,4-Trimethylbenzene	50.0	53.0		ug/L		106	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	66.2	*	ug/L		132	62 - 130
1,2-Dibromoethane	50.0	56.8		ug/L		114	78 - 122
1,2-Dichlorobenzene	50.0	55.5		ug/L		111	75 - 120
1,2-Dichloroethane	50.0	52.9		ug/L		106	69 - 130
1,2-Dichloropropane	50.0	48.4		ug/L		97	75 - 120
1,3,5-Trimethylbenzene	50.0	54.5		ug/L		109	75 - 121
1,3-Dichlorobenzene	50.0	53.9		ug/L		108	75 - 120
1,3-Dichloropropane	50.0	58.0		ug/L		116	77 - 124
1,4-Dichlorobenzene	50.0	54.3		ug/L		109	75 - 120
2,2-Dichloropropane	50.0	42.9		ug/L		86	65 - 132
2-Chlorotoluene	50.0	51.8		ug/L		104	75 - 120
4-Chlorotoluene	50.0	51.4		ug/L		103	75 - 120
Benzene	50.0	47.1		ug/L		94	75 - 120
Bromobenzene	50.0	53.3		ug/L		107	75 - 120
Bromochloromethane	50.0	47.0		ug/L		94	76 - 120
Bromodichloromethane	50.0	53.2		ug/L		106	77 - 121

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

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

Lab Sample ID: LCS 500-262407/4

Matrix: Water

Analysis Batch: 262407

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	50.0	57.4		ug/L		115	68 - 126
Bromomethane	50.0	39.6		ug/L		79	45 - 169
Carbon tetrachloride	50.0	48.6		ug/L		97	70 - 130
Chlorobenzene	50.0	52.3		ug/L		105	75 - 120
Chloroethane	50.0	38.2		ug/L		76	58 - 147
Chloroform	50.0	48.4		ug/L		97	76 - 120
Chloromethane	50.0	45.6		ug/L		91	63 - 133
cis-1,2-Dichloroethene	50.0	45.4		ug/L		91	75 - 120
cis-1,3-Dichloropropene	50.0	60.5		ug/L		121	78 - 130
Dibromochloromethane	50.0	60.0		ug/L		120	71 - 126
Dibromomethane	50.0	49.6		ug/L		99	75 - 120
Dichlorodifluoromethane	50.0	55.5		ug/L		111	41 - 146
Ethylbenzene	50.0	52.1		ug/L		104	75 - 120
Hexachlorobutadiene	50.0	56.5		ug/L		113	71 - 131
Isopropylbenzene	50.0	53.9		ug/L		108	75 - 121
Methyl tert-butyl ether	50.0	46.2		ug/L		92	75 - 130
Methylene Chloride	50.0	42.5		ug/L		85	73 - 130
Naphthalene	50.0	65.3		ug/L		131	69 - 135
n-Butylbenzene	50.0	54.2		ug/L		108	75 - 121
N-Propylbenzene	50.0	52.5		ug/L		105	75 - 120
p-Isopropyltoluene	50.0	54.3		ug/L		109	75 - 121
sec-Butylbenzene	50.0	54.2		ug/L		108	75 - 120
Styrene	50.0	50.5		ug/L		101	75 - 120
tert-Butylbenzene	50.0	54.8		ug/L		110	75 - 123
Tetrachloroethene	50.0	56.5		ug/L		113	75 - 120
Toluene	50.0	55.6		ug/L		111	75 - 120
trans-1,2-Dichloroethene	50.0	43.9		ug/L		88	77 - 120
trans-1,3-Dichloropropene	50.0	58.9		ug/L		118	74 - 130
Trichloroethene	50.0	51.1		ug/L		102	75 - 120
Trichlorofluoromethane	50.0	46.8		ug/L		94	71 - 130
Vinyl chloride	50.0	45.8		ug/L		92	72 - 123
Xylenes, Total	100	103		ug/L		103	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	110		75 - 125
4-Bromofluorobenzene (Surr)	102		75 - 120
Dibromofluoromethane	101		75 - 120
Toluene-d8 (Surr)	110		75 - 120

Lab Sample ID: MB 500-262626/6

Matrix: Water

Analysis Batch: 262626

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.25		1.0	0.25	ug/L			11/05/14 11:18	1
1,1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			11/05/14 11:18	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			11/05/14 11:18	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			11/05/14 11:18	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

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

Lab Sample ID: MB 500-262626/6

Matrix: Water

Analysis Batch: 262626

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			11/05/14 11:18	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			11/05/14 11:18	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			11/05/14 11:18	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			11/05/14 11:18	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			11/05/14 11:18	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			11/05/14 11:18	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			11/05/14 11:18	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			11/05/14 11:18	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			11/05/14 11:18	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			11/05/14 11:18	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			11/05/14 11:18	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			11/05/14 11:18	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			11/05/14 11:18	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/05/14 11:18	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			11/05/14 11:18	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			11/05/14 11:18	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			11/05/14 11:18	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			11/05/14 11:18	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			11/05/14 11:18	1
Benzene	<0.074		0.50	0.074	ug/L			11/05/14 11:18	1
Bromobenzene	<0.25		1.0	0.25	ug/L			11/05/14 11:18	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			11/05/14 11:18	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			11/05/14 11:18	1
Bromoform	<0.28		1.0	0.28	ug/L			11/05/14 11:18	1
Bromomethane	<0.31		1.0	0.31	ug/L			11/05/14 11:18	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			11/05/14 11:18	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			11/05/14 11:18	1
Chloroethane	<0.34		1.0	0.34	ug/L			11/05/14 11:18	1
Chloroform	<0.20		1.0	0.20	ug/L			11/05/14 11:18	1
Chloromethane	<0.18		1.0	0.18	ug/L			11/05/14 11:18	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			11/05/14 11:18	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			11/05/14 11:18	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			11/05/14 11:18	1
Dibromomethane	<0.33		1.0	0.33	ug/L			11/05/14 11:18	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			11/05/14 11:18	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			11/05/14 11:18	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			11/05/14 11:18	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			11/05/14 11:18	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			11/05/14 11:18	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			11/05/14 11:18	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			11/05/14 11:18	1
Naphthalene	<0.16		1.0	0.16	ug/L			11/05/14 11:18	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			11/05/14 11:18	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			11/05/14 11:18	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			11/05/14 11:18	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			11/05/14 11:18	1
Styrene	<0.10		1.0	0.10	ug/L			11/05/14 11:18	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			11/05/14 11:18	1

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

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

Lab Sample ID: MB 500-262626/6

Matrix: Water

Analysis Batch: 262626

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.17		1.0	0.17	ug/L			11/05/14 11:18	1
Toluene	<0.11		0.50	0.11	ug/L			11/05/14 11:18	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			11/05/14 11:18	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			11/05/14 11:18	1
Trichloroethene	<0.19		0.50	0.19	ug/L			11/05/14 11:18	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			11/05/14 11:18	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			11/05/14 11:18	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			11/05/14 11:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 125		11/05/14 11:18	1
4-Bromofluorobenzene (Surr)	107		75 - 120		11/05/14 11:18	1
Dibromofluoromethane	102		75 - 120		11/05/14 11:18	1
Toluene-d8 (Surr)	102		75 - 120		11/05/14 11:18	1

Lab Sample ID: LCS 500-262626/4

Matrix: Water

Analysis Batch: 262626

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	48.3		ug/L		97	75 - 122
1,1,1-Trichloroethane	50.0	44.8		ug/L		90	72 - 130
1,1,1,2,2-Tetrachloroethane	50.0	55.7		ug/L		111	72 - 130
1,1,2-Trichloroethane	50.0	53.5		ug/L		107	75 - 120
1,1-Dichloroethane	50.0	44.8		ug/L		90	75 - 120
1,1-Dichloroethene	50.0	43.3		ug/L		87	69 - 120
1,1-Dichloropropene	50.0	46.3		ug/L		93	75 - 130
1,2,3-Trichlorobenzene	50.0	56.1		ug/L		112	69 - 131
1,2,3-Trichloropropane	50.0	57.1		ug/L		114	65 - 132
1,2,4-Trichlorobenzene	50.0	53.5		ug/L		107	73 - 130
1,2,4-Trimethylbenzene	50.0	50.9		ug/L		102	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	59.9		ug/L		120	62 - 130
1,2-Dibromoethane	50.0	52.2		ug/L		104	78 - 122
1,2-Dichlorobenzene	50.0	52.1		ug/L		104	75 - 120
1,2-Dichloroethane	50.0	51.1		ug/L		102	69 - 130
1,2-Dichloropropane	50.0	48.2		ug/L		96	75 - 120
1,3,5-Trimethylbenzene	50.0	52.3		ug/L		105	75 - 121
1,3-Dichlorobenzene	50.0	51.3		ug/L		103	75 - 120
1,3-Dichloropropane	50.0	55.1		ug/L		110	77 - 124
1,4-Dichlorobenzene	50.0	51.0		ug/L		102	75 - 120
2,2-Dichloropropane	50.0	41.6		ug/L		83	65 - 132
2-Chlorotoluene	50.0	50.8		ug/L		102	75 - 120
4-Chlorotoluene	50.0	52.4		ug/L		105	75 - 120
Benzene	50.0	45.3		ug/L		91	75 - 120
Bromobenzene	50.0	52.9		ug/L		106	75 - 120
Bromochloromethane	50.0	47.8		ug/L		96	76 - 120
Bromodichloromethane	50.0	51.1		ug/L		102	77 - 121
Bromoform	50.0	51.2		ug/L		102	68 - 126

TestAmerica Chicago

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

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

Lab Sample ID: LCS 500-262626/4

Matrix: Water

Analysis Batch: 262626

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	50.0	37.3		ug/L		75	45 - 169
Carbon tetrachloride	50.0	47.5		ug/L		95	70 - 130
Chlorobenzene	50.0	49.3		ug/L		99	75 - 120
Chloroethane	50.0	38.3		ug/L		77	58 - 147
Chloroform	50.0	48.4		ug/L		97	76 - 120
Chloromethane	50.0	46.1		ug/L		92	63 - 133
cis-1,2-Dichloroethene	50.0	46.1		ug/L		92	75 - 120
cis-1,3-Dichloropropene	50.0	51.7		ug/L		103	78 - 130
Dibromochloromethane	50.0	52.9		ug/L		106	71 - 126
Dibromomethane	50.0	47.9		ug/L		96	75 - 120
Dichlorodifluoromethane	50.0	58.0		ug/L		116	41 - 146
Ethylbenzene	50.0	50.1		ug/L		100	75 - 120
Hexachlorobutadiene	50.0	52.9		ug/L		106	71 - 131
Isopropylbenzene	50.0	51.5		ug/L		103	75 - 121
Methyl tert-butyl ether	50.0	45.7		ug/L		91	75 - 130
Methylene Chloride	50.0	44.0		ug/L		88	73 - 130
Naphthalene	50.0	58.0		ug/L		116	69 - 135
n-Butylbenzene	50.0	50.4		ug/L		101	75 - 121
N-Propylbenzene	50.0	52.2		ug/L		104	75 - 120
p-Isopropyltoluene	50.0	51.4		ug/L		103	75 - 121
sec-Butylbenzene	50.0	50.7		ug/L		101	75 - 120
Styrene	50.0	48.1		ug/L		96	75 - 120
tert-Butylbenzene	50.0	50.5		ug/L		101	75 - 123
Tetrachloroethene	50.0	48.8		ug/L		98	75 - 120
Toluene	50.0	50.0		ug/L		100	75 - 120
trans-1,2-Dichloroethene	50.0	44.4		ug/L		89	77 - 120
trans-1,3-Dichloropropene	50.0	52.1		ug/L		104	74 - 130
Trichloroethene	50.0	48.8		ug/L		98	75 - 120
Trichlorofluoromethane	50.0	41.4		ug/L		83	71 - 130
Vinyl chloride	50.0	45.2		ug/L		90	72 - 123
Xylenes, Total	100	95.1		ug/L		95	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	112		75 - 125
4-Bromofluorobenzene (Surr)	107		75 - 120
Dibromofluoromethane	102		75 - 120
Toluene-d8 (Surr)	107		75 - 120

Lab Chronicle

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-5D2

Lab Sample ID: 500-86687-1

Date Collected: 10/21/14 09:48

Matrix: Water

Date Received: 10/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	262215	11/03/14 13:22	BDA	TAL CHI

Client Sample ID: MW-5S

Lab Sample ID: 500-86687-2

Date Collected: 10/21/14 11:00

Matrix: Water

Date Received: 10/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	262215	11/03/14 13:47	BDA	TAL CHI

Client Sample ID: MW-5D

Lab Sample ID: 500-86687-3

Date Collected: 10/21/14 13:00

Matrix: Water

Date Received: 10/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	262215	11/03/14 14:12	BDA	TAL CHI

Client Sample ID: MW-19D

Lab Sample ID: 500-86687-4

Date Collected: 10/21/14 15:30

Matrix: Water

Date Received: 10/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	262215	11/03/14 14:36	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	20	262215	11/03/14 15:01	BDA	TAL CHI

Client Sample ID: MW-27D

Lab Sample ID: 500-86687-5

Date Collected: 10/21/14 09:40

Matrix: Water

Date Received: 10/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	262215	11/03/14 15:26	BDA	TAL CHI

Client Sample ID: MW-27D2

Lab Sample ID: 500-86687-6

Date Collected: 10/21/14 10:45

Matrix: Water

Date Received: 10/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	262215	11/03/14 15:51	BDA	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: MW-20D

Lab Sample ID: 500-86687-7

Date Collected: 10/22/14 09:40

Matrix: Water

Date Received: 10/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	262215	11/03/14 16:16	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	20	262215	11/03/14 16:40	BDA	TAL CHI

Client Sample ID: MW-20D2 QUENCHED

Lab Sample ID: 500-86687-8

Date Collected: 10/22/14 12:05

Matrix: Water

Date Received: 10/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	262215	11/03/14 17:05	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	20	262215	11/03/14 17:30	BDA	TAL CHI

Client Sample ID: MW-25D2

Lab Sample ID: 500-86687-9

Date Collected: 10/22/14 15:00

Matrix: Water

Date Received: 10/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	262215	11/03/14 17:54	BDA	TAL CHI

Client Sample ID: MW-17

Lab Sample ID: 500-86687-10

Date Collected: 10/22/14 18:00

Matrix: Water

Date Received: 10/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	262215	11/03/14 18:19	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	20	262215	11/03/14 18:43	BDA	TAL CHI

Client Sample ID: MW-3S

Lab Sample ID: 500-86687-11

Date Collected: 10/22/14 18:50

Matrix: Water

Date Received: 10/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	262407	11/04/14 11:35	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	10	262407	11/04/14 11:59	BDA	TAL CHI

Client Sample ID: MW-3D2

Lab Sample ID: 500-86687-12

Date Collected: 10/23/14 09:33

Matrix: Water

Date Received: 10/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	262407	11/04/14 12:25	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	20	262407	11/04/14 12:50	BDA	TAL CHI

TestAmerica Chicago

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Client Sample ID: DUP3

Lab Sample ID: 500-86687-13

Date Collected: 10/22/14 00:00

Matrix: Water

Date Received: 10/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	262407	11/04/14 13:15	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	20	262407	11/04/14 13:40	BDA	TAL CHI

Client Sample ID: MW-21D

Lab Sample ID: 500-86687-14

Date Collected: 10/23/14 10:50

Matrix: Water

Date Received: 10/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	262407	11/04/14 14:05	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	10	262626	11/05/14 12:08	BDA	TAL CHI

Client Sample ID: MW-21D2 QUENCHED

Lab Sample ID: 500-86687-15

Date Collected: 10/23/14 12:03

Matrix: Water

Date Received: 10/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	262407	11/04/14 14:30	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	10	262626	11/05/14 12:33	BDA	TAL CHI

Client Sample ID: MW-21D2

Lab Sample ID: 500-86687-16

Date Collected: 10/23/14 12:03

Matrix: Water

Date Received: 10/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	262626	11/05/14 12:58	BDA	TAL CHI

Client Sample ID: MW-18S

Lab Sample ID: 500-86687-17

Date Collected: 10/23/14 13:09

Matrix: Water

Date Received: 10/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	262407	11/04/14 15:20	BDA	TAL CHI
Total/NA	Analysis	8260B	DL	10	262626	11/05/14 13:23	BDA	TAL CHI

Client Sample ID: MW-1

Lab Sample ID: 500-86687-18

Date Collected: 10/23/14 15:47

Matrix: Water

Date Received: 10/24/14 10:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	262215	11/03/14 19:08	BDA	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001368.0018.00002

TestAmerica Job ID: 500-86687-1

Laboratory: TestAmerica Chicago

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Wisconsin	State Program	5	999580010	08-31-15 *

* Certification renewal pending - certification considered valid.

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ID#: _____



500-86687 COC

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of 2

500-86687

Lab Work Order # _____

Send Results to:	Contact & Company Name: Chris Kubacki ARCADIS	Telephone: 414-276-7742	Preservative: B						
	Address: 126 N Jefferson St Ste 400	Fax:	Filtered (✓):						
	City: MILWAUKEE	State: WI	Zip: 53202	E-mail Address: Chris.Kubacki@arcadis-us.com	# of Containers: 3				
				Container Information: 1					

PARAMETER ANALYSIS & METHOD

Project Name/Location (City, State): Madison - KPP, Madison, WI	Project #: W1001368.0018.00002
Sampler's Printed Name: Maureen O'Brien	Sampler's Signature:

Keys

Preservation Key:
 A. H₂SO₄
 B. HCL
 C. HNO₃
 D. NaOH
 E. None
 F. Other: _____
 G. Other: _____
 H. Other: _____

Container Information Key:
 1. 40 ml Vial
 2. 1 L Amber
 3. 250 ml Plastic
 4. 500 ml Plastic
 5. EnCore
 6. 2 oz. Glass
 7. 4 oz. Glass
 8. 8 oz. Glass
 9. Other: _____
 10. Other: _____

Matrix Key:
 SO - Soil SE - Sediment NL - NAP/LOI
 W - Water SL - Sludge SW - Sample Wipe
 T - Tissue A - Air Other: _____

Sample ID	Collection		Type (✓)		Matrix	82608 VOC													
	Date	Time	Comp	Grab															
1 MW-502	10/21	0948		X	W	3													
2 MW-55	10/21	1100		X	W	3													
3 MW-50	10/21	1300		X	W	3													
4 MW-190	10/21	1530		X	W	3													
5 MW-270	10/21	1045		X	W	3													
6 MW-270Z	10/21	1045		X	W	3													
7 MW-200	10/22	0940		X	W	3													
8 MW-200Z (Quenched)	10/22	1205		X	W	3													
9 MW-250Z	10/22	1500		X	W	3													
10 MW-17	10/22	1800		X	W	3													
11 MW-35	10/22	1850		X	W	3													
12 MW-30Z	10/23	933		X	W	3													
13 DUP 3	-	-		X	W	3													
14 MW-210	10/23	1050		X	W	3													

REMARKS

Special Instructions/Comments: _____ Special QA/QC Instructions(✓): _____

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name: Tetra America	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: Vivian Yates	Signature: <i>[Signature]</i>	Printed Name: JOE JONES	Signature: <i>[Signature]</i>	Printed Name:	Signature:	Printed Name:	Signature:
<input checked="" type="checkbox"/> Cooler packed with ice (✓)	Sample Receipt:	Firm: ARCADIS	Date/Time: 10/23/14 1700	Firm/Courier: <i>[Signature]</i>	Date/Time: 10/24/14 1010	Firm:	Date/Time:	Firm:	Date/Time:
Specify Turnaround Requirements: Standard	Condition/Cooler Temp: _____								

ID#:

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

500-86607

Lab Work Order #

Send Results to:	Contact & Company Name: Chris Kubacki ARCADIS	Telephone: 414-276-7742	Preservative: B							<p>Keys</p> <p>Preservation Key: A. H₂SO B. HCL C. HNO₃ D. NaOH E. None F. Other: _____</p> <p>Container Information Key: 1. 40 ml Vial 2. 1 L Amber 3. 250 ml Plastic 4. 500 ml Plastic 5. Encore 6. 2 oz. Glass 7. 4 oz. Glass 8. 8 oz. Glass 9. Other: _____ 10. Other: _____</p> <p>Matrix Key: SO - Soil SE - Sediment NL - NAPL/Oil W - Water SL - Sludge SW - Sample Wipe T - Tissue A - Air Other: _____</p>	
	Address: 120 W Jefferson St #400	Fax:	# of Containers: 3								
	City: Milwaukee State: WI Zip: 53202	E-mail Address: Chris.Kubacki@arcadis-us.com	Container Information: 1								
	PARAMETER ANALYSIS & METHOD										

Project Name/Location (City, State): Madison, WI	Project #: W1001368.008.0002	PL60 VOC
Sampler's Printed Name: V. Gates	Sampler's Signature: <i>V. Gates</i>	

Sample ID	Collection		Type (✓)		Matrix	S	3	3	9	REMARKS
	Date	Time	Comp	Grab						
MW-21D2 Quinched	10/23	1203		X	W	S				
MW-21D2	10/23	1203		X	W	3				
MW-185	10/23	1309		X	W	3				
MW-1 MS/MSD	10/23	1547		X	W	9				MS/MSD

Special Instructions/Comments: Special QA/QC Instructions(✓):

Laboratory Information and Receipt		Relinquished By		Received By		Relinquished By		Laboratory Received By	
Lab Name: Test America	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: Vivian Gates	Signature: <i>V. Gates</i>	Printed Name:	Signature: <i>[Signature]</i>	Printed Name:	Signature:	Printed Name:	Signature:
<input checked="" type="checkbox"/> Cooler packed with ice (✓)		Firm: ARCADIS	Date/Time: 10/23/15 00	Firm/Courier:	Date/Time: 10/24/14 1910	Firm/Courier:	Date/Time:	Firm:	Date/Time:
Specify Turnaround Requirements: Standard	Sample Receipt:								
Shipping Tracking #:	Condition/Cooler Temp: _____								

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-86687-1

Login Number: 86687

List Source: TestAmerica Chicago

List Number: 1

Creator: James, Jeff A

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	