

Appendix D

Groundwater Analytical
Laboratory Reports

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: 500-75180-1
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:
4/22/2014 3:24:12 PM

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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: 500-75180-1

Job ID: 500-75180-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-75180-1

Comments

No additional comments.

Receipt

The samples were received on 4/16/2014 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7° C.

GC/MS VOA

Method(s) 8260B: The matrix spike duplicate (MSD) in batch 23257 was analyzed 3 minutes outside of the method specified twelve hour tune time.

Method(s) 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: MP-14 (170-178) (500-75180-2), MP-15 (100-105) (500-75180-7), MP-15 (120-125) (500-75180-8), MP-15 (142-146) (500-75180-9), MW-20D (500-75180-18), MW-20D2 (500-75180-19), MW-21D (500-75180-20), MW-21D2 (500-75180-21), MW-5D2 (500-75180-17). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.



Detection Summary

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-75180-1

No Detections.

Client Sample ID: MP-14 (170-178)

Lab Sample ID: 500-75180-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	19		2.0	0.24	ug/L	2		8260B	Total/NA
Trichloroethene	33		1.0	0.38	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	630		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: MP-14 (135-140)

Lab Sample ID: 500-75180-3

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
Trichloroethene	23		0.50	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	350		10	1.7	ug/L	10		8260B	Total/NA

Client Sample ID: MP-14 (100-105)

Lab Sample ID: 500-75180-4

No Detections.

Client Sample ID: MP-14 (70-75)

Lab Sample ID: 500-75180-5

No Detections.

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

Lab Sample ID: 500-75180-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	23		1.0	0.12	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	3.5		1.0	0.24	ug/L	1		8260B	Total/NA
Trichloroethene	24		0.50	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	300		10	1.7	ug/L	10		8260B	Total/NA

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

Lab Sample ID: 500-75180-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	96		2.0	0.24	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	1.2	J	2.0	0.50	ug/L	2		8260B	Total/NA
Trichloroethene	92		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-15 (120-125)

Lab Sample ID: 500-75180-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	230		5.0	0.60	ug/L	5		8260B	Total/NA
Trichloroethene	210		2.5	0.95	ug/L	5		8260B	Total/NA
Tetrachloroethene - DL	2000		50	8.5	ug/L	50		8260B	Total/NA

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

Lab Sample ID: 500-75180-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	140		2.0	0.24	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	1.5	J	2.0	0.50	ug/L	2		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: 500-75180-1

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

Lab Sample ID: 500-75180-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	130		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: MP-15 (177-187)

Lab Sample ID: 500-75180-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		1.0	0.12	ug/L	1		8260B	Total/NA
Tetrachloroethene	73		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 (80-84)

Lab Sample ID: 500-75180-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.56	J	1.0	0.17	ug/L	1		8260B	Total/NA

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

Lab Sample ID: 500-75180-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.4		1.0	0.12	ug/L	1		8260B	Total/NA
Trichloroethene	30		0.50	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	330		10	1.7	ug/L	10		8260B	Total/NA

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

Lab Sample ID: 500-75180-13

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	38		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	6.1		0.50	0.19	ug/L	1		8260B	Total/NA

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

Lab Sample ID: 500-75180-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3.8		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	0.87		0.50	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: MW-5S

Lab Sample ID: 500-75180-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	47		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-5D

Lab Sample ID: 500-75180-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.30	J	0.50	0.074	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	77		1.0	0.12	ug/L	1		8260B	Total/NA

Client Sample ID: MW-5D2

Lab Sample ID: 500-75180-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	7.1		1.0	0.38	ug/L	2		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: 500-75180-1

Client Sample ID: MW-5D2 (Continued)

Lab Sample ID: 500-75180-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene - DL	520		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: MW-20D

Lab Sample ID: 500-75180-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	140		2.0	0.24	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	2.0		2.0	0.50	ug/L	2		8260B	Total/NA
Trichloroethene	83		1.0	0.38	ug/L	2		8260B	Total/NA
Vinyl chloride	0.76	J	1.0	0.20	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	780		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: MW-20D2

Lab Sample ID: 500-75180-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.7		2.5	0.95	ug/L	5		8260B	Total/NA
Tetrachloroethene - DL	1600		50	8.5	ug/L	50		8260B	Total/NA

Client Sample ID: MW-21D

Lab Sample ID: 500-75180-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	320		5.0	0.60	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	5.0		5.0	1.3	ug/L	5		8260B	Total/NA
Trichloroethene	180		2.5	0.95	ug/L	5		8260B	Total/NA
Vinyl chloride	1.5	J	2.5	0.50	ug/L	5		8260B	Total/NA
Tetrachloroethene - DL	1800		50	8.5	ug/L	50		8260B	Total/NA

Client Sample ID: MW-21D2

Lab Sample ID: 500-75180-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	110		5.0	0.60	ug/L	5		8260B	Total/NA
Trichloroethene	130		2.5	0.95	ug/L	5		8260B	Total/NA
Tetrachloroethene - DL	1900		50	8.5	ug/L	50		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: 500-75180-1

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.

TestAmerica Job ID: 500-75180-1

Project/Site: MadisonKipp - WI001368.0018.00002

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-75180-1	Trip Blank	Water	04/14/14 00:00	04/16/14 09:45
500-75180-2	MP-14 (170-178)	Water	04/14/14 14:50	04/16/14 09:45
500-75180-3	MP-14 (135-140)	Water	04/14/14 15:30	04/16/14 09:45
500-75180-4	MP-14 (100-105)	Water	04/14/14 16:10	04/16/14 09:45
500-75180-5	MP-14 (70-75)	Water	04/14/14 16:40	04/16/14 09:45
500-75180-6	MP-15 (88-92)	Water	04/15/14 16:00	04/16/14 09:45
500-75180-7	MP-15 (100-105)	Water	04/15/14 15:40	04/16/14 09:45
500-75180-8	MP-15 (120-125)	Water	04/15/14 15:20	04/16/14 09:45
500-75180-9	MP-15 (142-146)	Water	04/15/14 15:00	04/16/14 09:45
500-75180-10	MP-15 (177-187)	Water	04/15/14 14:40	04/16/14 09:45
500-75180-11	MP-16 (80-84)	Water	04/15/14 17:15	04/16/14 09:45
500-75180-12	MP-16 (106-116)	Water	04/15/14 17:00	04/16/14 09:45
500-75180-13	MP-16 (140-144)	Water	04/15/14 16:45	04/16/14 09:45
500-75180-14	MP-16 (175-179)	Water	04/15/14 16:30	04/16/14 09:45
500-75180-15	MW-5S	Water	04/15/14 11:47	04/16/14 09:45
500-75180-16	MW-5D	Water	04/15/14 13:28	04/16/14 09:45
500-75180-17	MW-5D2	Water	04/15/14 11:25	04/16/14 09:45
500-75180-18	MW-20D	Water	04/15/14 16:43	04/16/14 09:45
500-75180-19	MW-20D2	Water	04/15/14 15:25	04/16/14 09:45
500-75180-20	MW-21D	Water	04/15/14 15:02	04/16/14 09:45
500-75180-21	MW-21D2	Water	04/15/14 16:30	04/16/14 09:45

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-75180-1

Date Collected: 04/14/14 00:00

Matrix: Water

Date Received: 04/16/14 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			04/20/14 11:33	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/20/14 11:33	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/20/14 11:33	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/20/14 11:33	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/20/14 11:33	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/20/14 11:33	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/20/14 11:33	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/20/14 11:33	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/20/14 11:33	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/20/14 11:33	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 11:33	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/20/14 11:33	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/20/14 11:33	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/20/14 11:33	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/20/14 11:33	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/20/14 11:33	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/20/14 11:33	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/20/14 11:33	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/20/14 11:33	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/20/14 11:33	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/20/14 11:33	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/20/14 11:33	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/20/14 11:33	1
Benzene	<0.074		0.50	0.074	ug/L			04/20/14 11:33	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/20/14 11:33	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/20/14 11:33	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/20/14 11:33	1
Bromoform	<0.28		1.0	0.28	ug/L			04/20/14 11:33	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/20/14 11:33	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/20/14 11:33	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/20/14 11:33	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/20/14 11:33	1
Chloroform	<0.20		1.0	0.20	ug/L			04/20/14 11:33	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/20/14 11:33	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/20/14 11:33	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/20/14 11:33	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/20/14 11:33	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/20/14 11:33	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/20/14 11:33	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/20/14 11:33	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/20/14 11:33	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/20/14 11:33	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 11:33	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/20/14 11:33	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/20/14 11:33	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/20/14 11:33	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/20/14 11:33	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/20/14 11:33	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/20/14 11:33	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-75180-1

Date Collected: 04/14/14 00:00

Matrix: Water

Date Received: 04/16/14 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			04/20/14 11:33	1
Styrene	<0.10		1.0	0.10	ug/L			04/20/14 11:33	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 11:33	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/20/14 11:33	1
Toluene	<0.11		0.50	0.11	ug/L			04/20/14 11:33	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/20/14 11:33	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/20/14 11:33	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/20/14 11:33	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/20/14 11:33	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/20/14 11:33	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/20/14 11:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 125					04/20/14 11:33	1
4-Bromofluorobenzene (Surr)	90		75 - 120					04/20/14 11:33	1
Dibromofluoromethane	91		75 - 120					04/20/14 11:33	1
Toluene-d8 (Surr)	95		75 - 120					04/20/14 11:33	1

Client Sample ID: MP-14 (170-178)

Lab Sample ID: 500-75180-2

Date Collected: 04/14/14 14:50

Matrix: Water

Date Received: 04/16/14 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	<0.50		2.0	0.50	ug/L			04/20/14 12:00	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			04/20/14 12:00	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			04/20/14 12:00	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			04/20/14 12:00	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			04/20/14 12:00	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			04/20/14 12:00	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			04/20/14 12:00	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			04/20/14 12:00	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			04/20/14 12:00	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			04/20/14 12:00	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			04/20/14 12:00	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			04/20/14 12:00	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			04/20/14 12:00	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			04/20/14 12:00	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			04/20/14 12:00	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			04/20/14 12:00	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			04/20/14 12:00	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/20/14 12:00	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			04/20/14 12:00	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/20/14 12:00	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			04/20/14 12:00	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			04/20/14 12:00	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			04/20/14 12:00	2
Benzene	<0.15		1.0	0.15	ug/L			04/20/14 12:00	2
Bromobenzene	<0.50		2.0	0.50	ug/L			04/20/14 12:00	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			04/20/14 12:00	2

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: MP-14 (170-178)

Lab Sample ID: 500-75180-2

Date Collected: 04/14/14 14:50

Matrix: Water

Date Received: 04/16/14 09:45

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			04/20/14 12:00	2
Bromoform	<0.56		2.0	0.56	ug/L			04/20/14 12:00	2
Bromomethane	<0.62		2.0	0.62	ug/L			04/20/14 12:00	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			04/20/14 12:00	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			04/20/14 12:00	2
Chloroethane	<0.68		2.0	0.68	ug/L			04/20/14 12:00	2
Chloroform	<0.40		2.0	0.40	ug/L			04/20/14 12:00	2
Chloromethane	<0.36		2.0	0.36	ug/L			04/20/14 12:00	2
cis-1,2-Dichloroethene	19		2.0	0.24	ug/L			04/20/14 12:00	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			04/20/14 12:00	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			04/20/14 12:00	2
Dibromomethane	<0.66		2.0	0.66	ug/L			04/20/14 12:00	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			04/20/14 12:00	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			04/20/14 12:00	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			04/20/14 12:00	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			04/20/14 12:00	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			04/20/14 12:00	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			04/20/14 12:00	2
Methylene Chloride	<1.4		10	1.4	ug/L			04/20/14 12:00	2
Naphthalene	<0.32		2.0	0.32	ug/L			04/20/14 12:00	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			04/20/14 12:00	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			04/20/14 12:00	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			04/20/14 12:00	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			04/20/14 12:00	2
Styrene	<0.20		2.0	0.20	ug/L			04/20/14 12:00	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			04/20/14 12:00	2
Toluene	<0.22		1.0	0.22	ug/L			04/20/14 12:00	2
trans-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			04/20/14 12:00	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			04/20/14 12:00	2
Trichloroethene	33		1.0	0.38	ug/L			04/20/14 12:00	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			04/20/14 12:00	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/20/14 12:00	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			04/20/14 12:00	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 125		04/20/14 12:00	2
4-Bromofluorobenzene (Surr)	91		75 - 120		04/20/14 12:00	2
Dibromofluoromethane	90		75 - 120		04/20/14 12:00	2
Toluene-d8 (Surr)	95		75 - 120		04/20/14 12:00	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	630		20	3.4	ug/L			04/20/14 12:28	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 125		04/20/14 12:28	20
4-Bromofluorobenzene (Surr)	89		75 - 120		04/20/14 12:28	20
Dibromofluoromethane	89		75 - 120		04/20/14 12:28	20
Toluene-d8 (Surr)	94		75 - 120		04/20/14 12:28	20

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: MP-14 (135-140)

Lab Sample ID: 500-75180-3

Date Collected: 04/14/14 15:30

Matrix: Water

Date Received: 04/16/14 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			04/20/14 12:56	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/20/14 12:56	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/20/14 12:56	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/20/14 12:56	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/20/14 12:56	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/20/14 12:56	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/20/14 12:56	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/20/14 12:56	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/20/14 12:56	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/20/14 12:56	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 12:56	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/20/14 12:56	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/20/14 12:56	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/20/14 12:56	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/20/14 12:56	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/20/14 12:56	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/20/14 12:56	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/20/14 12:56	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/20/14 12:56	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/20/14 12:56	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/20/14 12:56	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/20/14 12:56	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/20/14 12:56	1
Benzene	<0.074		0.50	0.074	ug/L			04/20/14 12:56	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/20/14 12:56	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/20/14 12:56	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/20/14 12:56	1
Bromoform	<0.28		1.0	0.28	ug/L			04/20/14 12:56	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/20/14 12:56	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/20/14 12:56	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/20/14 12:56	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/20/14 12:56	1
Chloroform	<0.20		1.0	0.20	ug/L			04/20/14 12:56	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/20/14 12:56	1
cis-1,2-Dichloroethene	12		1.0	0.12	ug/L			04/20/14 12:56	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/20/14 12:56	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/20/14 12:56	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/20/14 12:56	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/20/14 12:56	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/20/14 12:56	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/20/14 12:56	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/20/14 12:56	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 12:56	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/20/14 12:56	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/20/14 12:56	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/20/14 12:56	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/20/14 12:56	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/20/14 12:56	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/20/14 12:56	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: MP-14 (135-140)

Lab Sample ID: 500-75180-3

Date Collected: 04/14/14 15:30

Matrix: Water

Date Received: 04/16/14 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			04/20/14 12:56	1
Styrene	<0.10		1.0	0.10	ug/L			04/20/14 12:56	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 12:56	1
Toluene	<0.11		0.50	0.11	ug/L			04/20/14 12:56	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/20/14 12:56	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/20/14 12:56	1
Trichloroethene	23		0.50	0.19	ug/L			04/20/14 12:56	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/20/14 12:56	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/20/14 12:56	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/20/14 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 125		04/20/14 12:56	1
4-Bromofluorobenzene (Surr)	91		75 - 120		04/20/14 12:56	1
Dibromofluoromethane	90		75 - 120		04/20/14 12:56	1
Toluene-d8 (Surr)	95		75 - 120		04/20/14 12:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	350		10	1.7	ug/L			04/20/14 13:23	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 125		04/20/14 13:23	10
4-Bromofluorobenzene (Surr)	91		75 - 120		04/20/14 13:23	10
Dibromofluoromethane	91		75 - 120		04/20/14 13:23	10
Toluene-d8 (Surr)	95		75 - 120		04/20/14 13:23	10

Client Sample ID: MP-14 (100-105)

Lab Sample ID: 500-75180-4

Date Collected: 04/14/14 16:10

Matrix: Water

Date Received: 04/16/14 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			04/20/14 13:50	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/20/14 13:50	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/20/14 13:50	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/20/14 13:50	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/20/14 13:50	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/20/14 13:50	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/20/14 13:50	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/20/14 13:50	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/20/14 13:50	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/20/14 13:50	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 13:50	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/20/14 13:50	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/20/14 13:50	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/20/14 13:50	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/20/14 13:50	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/20/14 13:50	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/20/14 13:50	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: MP-14 (100-105)

Lab Sample ID: 500-75180-4

Date Collected: 04/14/14 16:10

Matrix: Water

Date Received: 04/16/14 09:45

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			04/20/14 13:50	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/20/14 13:50	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/20/14 13:50	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/20/14 13:50	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/20/14 13:50	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/20/14 13:50	1
Benzene	<0.074		0.50	0.074	ug/L			04/20/14 13:50	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/20/14 13:50	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/20/14 13:50	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/20/14 13:50	1
Bromoform	<0.28		1.0	0.28	ug/L			04/20/14 13:50	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/20/14 13:50	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/20/14 13:50	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/20/14 13:50	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/20/14 13:50	1
Chloroform	<0.20		1.0	0.20	ug/L			04/20/14 13:50	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/20/14 13:50	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/20/14 13:50	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/20/14 13:50	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/20/14 13:50	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/20/14 13:50	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/20/14 13:50	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/20/14 13:50	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/20/14 13:50	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/20/14 13:50	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 13:50	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/20/14 13:50	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/20/14 13:50	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/20/14 13:50	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/20/14 13:50	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/20/14 13:50	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/20/14 13:50	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/20/14 13:50	1
Styrene	<0.10		1.0	0.10	ug/L			04/20/14 13:50	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 13:50	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/20/14 13:50	1
Toluene	<0.11		0.50	0.11	ug/L			04/20/14 13:50	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/20/14 13:50	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/20/14 13:50	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/20/14 13:50	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/20/14 13:50	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/20/14 13:50	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/20/14 13:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 125		04/20/14 13:50	1
4-Bromofluorobenzene (Surr)	93		75 - 120		04/20/14 13:50	1
Dibromofluoromethane	91		75 - 120		04/20/14 13:50	1
Toluene-d8 (Surr)	95		75 - 120		04/20/14 13:50	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: MP-14 (70-75)

Lab Sample ID: 500-75180-5

Date Collected: 04/14/14 16:40

Matrix: Water

Date Received: 04/16/14 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			04/20/14 14:17	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/20/14 14:17	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/20/14 14:17	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/20/14 14:17	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/20/14 14:17	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/20/14 14:17	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/20/14 14:17	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/20/14 14:17	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/20/14 14:17	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/20/14 14:17	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 14:17	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/20/14 14:17	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/20/14 14:17	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/20/14 14:17	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/20/14 14:17	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/20/14 14:17	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/20/14 14:17	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/20/14 14:17	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/20/14 14:17	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/20/14 14:17	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/20/14 14:17	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/20/14 14:17	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/20/14 14:17	1
Benzene	<0.074		0.50	0.074	ug/L			04/20/14 14:17	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/20/14 14:17	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/20/14 14:17	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/20/14 14:17	1
Bromoform	<0.28		1.0	0.28	ug/L			04/20/14 14:17	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/20/14 14:17	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/20/14 14:17	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/20/14 14:17	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/20/14 14:17	1
Chloroform	<0.20		1.0	0.20	ug/L			04/20/14 14:17	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/20/14 14:17	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/20/14 14:17	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/20/14 14:17	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/20/14 14:17	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/20/14 14:17	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/20/14 14:17	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/20/14 14:17	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/20/14 14:17	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/20/14 14:17	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 14:17	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/20/14 14:17	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/20/14 14:17	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/20/14 14:17	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/20/14 14:17	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/20/14 14:17	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/20/14 14:17	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: MP-14 (70-75)

Lab Sample ID: 500-75180-5

Date Collected: 04/14/14 16:40

Matrix: Water

Date Received: 04/16/14 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			04/20/14 14:17	1
Styrene	<0.10		1.0	0.10	ug/L			04/20/14 14:17	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 14:17	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/20/14 14:17	1
Toluene	<0.11		0.50	0.11	ug/L			04/20/14 14:17	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/20/14 14:17	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/20/14 14:17	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/20/14 14:17	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/20/14 14:17	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/20/14 14:17	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/20/14 14:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125					04/20/14 14:17	1
4-Bromofluorobenzene (Surr)	93		75 - 120					04/20/14 14:17	1
Dibromofluoromethane	91		75 - 120					04/20/14 14:17	1
Toluene-d8 (Surr)	95		75 - 120					04/20/14 14:17	1

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

Lab Sample ID: 500-75180-6

Date Collected: 04/15/14 16:00

Matrix: Water

Date Received: 04/16/14 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			04/20/14 14:44	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/20/14 14:44	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/20/14 14:44	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/20/14 14:44	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/20/14 14:44	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/20/14 14:44	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/20/14 14:44	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/20/14 14:44	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/20/14 14:44	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/20/14 14:44	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 14:44	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/20/14 14:44	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/20/14 14:44	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/20/14 14:44	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/20/14 14:44	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/20/14 14:44	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/20/14 14:44	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/20/14 14:44	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/20/14 14:44	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/20/14 14:44	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/20/14 14:44	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/20/14 14:44	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/20/14 14:44	1
Benzene	<0.074		0.50	0.074	ug/L			04/20/14 14:44	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/20/14 14:44	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/20/14 14:44	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: 500-75180-6

Date Collected: 04/15/14 16:00

Matrix: Water

Date Received: 04/16/14 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			04/20/14 14:44	1
Bromoform	<0.28		1.0	0.28	ug/L			04/20/14 14:44	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/20/14 14:44	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/20/14 14:44	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/20/14 14:44	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/20/14 14:44	1
Chloroform	<0.20		1.0	0.20	ug/L			04/20/14 14:44	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/20/14 14:44	1
cis-1,2-Dichloroethene	23		1.0	0.12	ug/L			04/20/14 14:44	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/20/14 14:44	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/20/14 14:44	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/20/14 14:44	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/20/14 14:44	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/20/14 14:44	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/20/14 14:44	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/20/14 14:44	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 14:44	1
Methyl tert-butyl ether	3.5		1.0	0.24	ug/L			04/20/14 14:44	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/20/14 14:44	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/20/14 14:44	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/20/14 14:44	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/20/14 14:44	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/20/14 14:44	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/20/14 14:44	1
Styrene	<0.10		1.0	0.10	ug/L			04/20/14 14:44	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 14:44	1
Toluene	<0.11		0.50	0.11	ug/L			04/20/14 14:44	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/20/14 14:44	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/20/14 14:44	1
Trichloroethene	24		0.50	0.19	ug/L			04/20/14 14:44	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/20/14 14:44	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/20/14 14:44	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/20/14 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 125		04/20/14 14:44	1
4-Bromofluorobenzene (Surr)	90		75 - 120		04/20/14 14:44	1
Dibromofluoromethane	89		75 - 120		04/20/14 14:44	1
Toluene-d8 (Surr)	95		75 - 120		04/20/14 14:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	300		10	1.7	ug/L			04/20/14 15:12	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 125		04/20/14 15:12	10
4-Bromofluorobenzene (Surr)	90		75 - 120		04/20/14 15:12	10
Dibromofluoromethane	92		75 - 120		04/20/14 15:12	10
Toluene-d8 (Surr)	95		75 - 120		04/20/14 15:12	10

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: 500-75180-7

Date Collected: 04/15/14 15:40

Matrix: Water

Date Received: 04/16/14 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	<0.50		2.0	0.50	ug/L			04/20/14 15:39	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			04/20/14 15:39	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			04/20/14 15:39	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			04/20/14 15:39	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			04/20/14 15:39	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			04/20/14 15:39	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			04/20/14 15:39	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			04/20/14 15:39	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			04/20/14 15:39	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			04/20/14 15:39	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			04/20/14 15:39	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			04/20/14 15:39	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			04/20/14 15:39	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			04/20/14 15:39	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			04/20/14 15:39	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			04/20/14 15:39	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			04/20/14 15:39	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/20/14 15:39	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			04/20/14 15:39	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/20/14 15:39	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			04/20/14 15:39	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			04/20/14 15:39	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			04/20/14 15:39	2
Benzene	<0.15		1.0	0.15	ug/L			04/20/14 15:39	2
Bromobenzene	<0.50		2.0	0.50	ug/L			04/20/14 15:39	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			04/20/14 15:39	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			04/20/14 15:39	2
Bromoform	<0.56		2.0	0.56	ug/L			04/20/14 15:39	2
Bromomethane	<0.62		2.0	0.62	ug/L			04/20/14 15:39	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			04/20/14 15:39	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			04/20/14 15:39	2
Chloroethane	<0.68		2.0	0.68	ug/L			04/20/14 15:39	2
Chloroform	<0.40		2.0	0.40	ug/L			04/20/14 15:39	2
Chloromethane	<0.36		2.0	0.36	ug/L			04/20/14 15:39	2
cis-1,2-Dichloroethene	96		2.0	0.24	ug/L			04/20/14 15:39	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			04/20/14 15:39	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			04/20/14 15:39	2
Dibromomethane	<0.66		2.0	0.66	ug/L			04/20/14 15:39	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			04/20/14 15:39	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			04/20/14 15:39	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			04/20/14 15:39	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			04/20/14 15:39	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			04/20/14 15:39	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			04/20/14 15:39	2
Methylene Chloride	<1.4		10	1.4	ug/L			04/20/14 15:39	2
Naphthalene	<0.32		2.0	0.32	ug/L			04/20/14 15:39	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			04/20/14 15:39	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			04/20/14 15:39	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			04/20/14 15:39	2

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: 500-75180-7

Date Collected: 04/15/14 15:40

Matrix: Water

Date Received: 04/16/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			04/20/14 15:39	2
Styrene	<0.20		2.0	0.20	ug/L			04/20/14 15:39	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			04/20/14 15:39	2
Toluene	<0.22		1.0	0.22	ug/L			04/20/14 15:39	2
trans-1,2-Dichloroethene	1.2	J	2.0	0.50	ug/L			04/20/14 15:39	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			04/20/14 15:39	2
Trichloroethene	92		1.0	0.38	ug/L			04/20/14 15:39	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			04/20/14 15:39	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/20/14 15:39	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			04/20/14 15:39	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 125		04/20/14 15:39	2
4-Bromofluorobenzene (Surr)	92		75 - 120		04/20/14 15:39	2
Dibromofluoromethane	92		75 - 120		04/20/14 15:39	2
Toluene-d8 (Surr)	95		75 - 120		04/20/14 15:39	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			04/20/14 16:06	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 125		04/20/14 16:06	20
4-Bromofluorobenzene (Surr)	92		75 - 120		04/20/14 16:06	20
Dibromofluoromethane	90		75 - 120		04/20/14 16:06	20
Toluene-d8 (Surr)	94		75 - 120		04/20/14 16:06	20

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

Lab Sample ID: 500-75180-8

Date Collected: 04/15/14 15:20

Matrix: Water

Date Received: 04/16/14 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	<1.3		5.0	1.3	ug/L			04/20/14 16:33	5
1,1,1-Trichloroethane	<1.0		5.0	1.0	ug/L			04/20/14 16:33	5
1,1,1,2,2-Tetrachloroethane	<1.2		5.0	1.2	ug/L			04/20/14 16:33	5
1,1,2-Trichloroethane	<1.4		5.0	1.4	ug/L			04/20/14 16:33	5
1,1-Dichloroethane	<0.95		5.0	0.95	ug/L			04/20/14 16:33	5
1,1-Dichloroethene	<1.6		5.0	1.6	ug/L			04/20/14 16:33	5
1,1-Dichloropropene	<1.7		5.0	1.7	ug/L			04/20/14 16:33	5
1,2,3-Trichlorobenzene	<1.2		5.0	1.2	ug/L			04/20/14 16:33	5
1,2,3-Trichloropropane	<2.3		5.0	2.3	ug/L			04/20/14 16:33	5
1,2,4-Trichlorobenzene	<1.6		5.0	1.6	ug/L			04/20/14 16:33	5
1,2,4-Trimethylbenzene	<0.70		5.0	0.70	ug/L			04/20/14 16:33	5
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/L			04/20/14 16:33	5
1,2-Dibromoethane	<1.8		5.0	1.8	ug/L			04/20/14 16:33	5
1,2-Dichlorobenzene	<1.4		5.0	1.4	ug/L			04/20/14 16:33	5
1,2-Dichloroethane	<1.4		5.0	1.4	ug/L			04/20/14 16:33	5
1,2-Dichloropropane	<1.0		5.0	1.0	ug/L			04/20/14 16:33	5
1,3,5-Trimethylbenzene	<0.90		5.0	0.90	ug/L			04/20/14 16:33	5

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: 500-75180-8

Date Collected: 04/15/14 15:20

Matrix: Water

Date Received: 04/16/14 09:45

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			04/20/14 16:33	5
1,3-Dichloropropane	<0.65		5.0	0.65	ug/L			04/20/14 16:33	5
1,4-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/20/14 16:33	5
2,2-Dichloropropane	<1.6		5.0	1.6	ug/L			04/20/14 16:33	5
2-Chlorotoluene	<1.1		5.0	1.1	ug/L			04/20/14 16:33	5
4-Chlorotoluene	<1.0		5.0	1.0	ug/L			04/20/14 16:33	5
Benzene	<0.37		2.5	0.37	ug/L			04/20/14 16:33	5
Bromobenzene	<1.3		5.0	1.3	ug/L			04/20/14 16:33	5
Bromochloromethane	<2.0		5.0	2.0	ug/L			04/20/14 16:33	5
Bromodichloromethane	<0.85		5.0	0.85	ug/L			04/20/14 16:33	5
Bromoform	<1.4		5.0	1.4	ug/L			04/20/14 16:33	5
Bromomethane	<1.6		5.0	1.6	ug/L			04/20/14 16:33	5
Carbon tetrachloride	<1.3		5.0	1.3	ug/L			04/20/14 16:33	5
Chlorobenzene	<0.70		5.0	0.70	ug/L			04/20/14 16:33	5
Chloroethane	<1.7		5.0	1.7	ug/L			04/20/14 16:33	5
Chloroform	<1.0		5.0	1.0	ug/L			04/20/14 16:33	5
Chloromethane	<0.90		5.0	0.90	ug/L			04/20/14 16:33	5
cis-1,2-Dichloroethene	230		5.0	0.60	ug/L			04/20/14 16:33	5
cis-1,3-Dichloropropene	<0.90		5.0	0.90	ug/L			04/20/14 16:33	5
Dibromochloromethane	<1.6		5.0	1.6	ug/L			04/20/14 16:33	5
Dibromomethane	<1.7		5.0	1.7	ug/L			04/20/14 16:33	5
Dichlorodifluoromethane	<1.0		5.0	1.0	ug/L			04/20/14 16:33	5
Ethylbenzene	<0.65		2.5	0.65	ug/L			04/20/14 16:33	5
Hexachlorobutadiene	<1.3		5.0	1.3	ug/L			04/20/14 16:33	5
Isopropyl ether	<0.75		5.0	0.75	ug/L			04/20/14 16:33	5
Isopropylbenzene	<0.70		5.0	0.70	ug/L			04/20/14 16:33	5
Methyl tert-butyl ether	<1.2		5.0	1.2	ug/L			04/20/14 16:33	5
Methylene Chloride	<3.4		25	3.4	ug/L			04/20/14 16:33	5
Naphthalene	<0.80		5.0	0.80	ug/L			04/20/14 16:33	5
n-Butylbenzene	<0.65		5.0	0.65	ug/L			04/20/14 16:33	5
N-Propylbenzene	<0.65		5.0	0.65	ug/L			04/20/14 16:33	5
p-Isopropyltoluene	<0.85		5.0	0.85	ug/L			04/20/14 16:33	5
sec-Butylbenzene	<0.75		5.0	0.75	ug/L			04/20/14 16:33	5
Styrene	<0.50		5.0	0.50	ug/L			04/20/14 16:33	5
tert-Butylbenzene	<0.70		5.0	0.70	ug/L			04/20/14 16:33	5
Toluene	<0.55		2.5	0.55	ug/L			04/20/14 16:33	5
trans-1,2-Dichloroethene	<1.3		5.0	1.3	ug/L			04/20/14 16:33	5
trans-1,3-Dichloropropene	<1.1		5.0	1.1	ug/L			04/20/14 16:33	5
Trichloroethene	210		2.5	0.95	ug/L			04/20/14 16:33	5
Trichlorofluoromethane	<0.95		5.0	0.95	ug/L			04/20/14 16:33	5
Vinyl chloride	<0.50		2.5	0.50	ug/L			04/20/14 16:33	5
Xylenes, Total	<0.34		5.0	0.34	ug/L			04/20/14 16:33	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 125		04/20/14 16:33	5
4-Bromofluorobenzene (Surr)	92		75 - 120		04/20/14 16:33	5
Dibromofluoromethane	89		75 - 120		04/20/14 16:33	5
Toluene-d8 (Surr)	94		75 - 120		04/20/14 16:33	5

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: 500-75180-8

Date Collected: 04/15/14 15:20

Matrix: Water

Date Received: 04/16/14 09:45

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			04/20/14 17:01	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125					04/20/14 17:01	50
4-Bromofluorobenzene (Surr)	92		75 - 120					04/20/14 17:01	50
Dibromofluoromethane	92		75 - 120					04/20/14 17:01	50
Toluene-d8 (Surr)	94		75 - 120					04/20/14 17:01	50

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

Lab Sample ID: 500-75180-9

Date Collected: 04/15/14 15:00

Matrix: Water

Date Received: 04/16/14 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	<0.50		2.0	0.50	ug/L			04/20/14 17:28	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			04/20/14 17:28	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			04/20/14 17:28	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			04/20/14 17:28	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			04/20/14 17:28	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			04/20/14 17:28	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			04/20/14 17:28	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			04/20/14 17:28	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			04/20/14 17:28	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			04/20/14 17:28	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			04/20/14 17:28	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			04/20/14 17:28	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			04/20/14 17:28	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			04/20/14 17:28	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			04/20/14 17:28	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			04/20/14 17:28	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			04/20/14 17:28	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/20/14 17:28	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			04/20/14 17:28	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/20/14 17:28	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			04/20/14 17:28	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			04/20/14 17:28	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			04/20/14 17:28	2
Benzene	<0.15		1.0	0.15	ug/L			04/20/14 17:28	2
Bromobenzene	<0.50		2.0	0.50	ug/L			04/20/14 17:28	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			04/20/14 17:28	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			04/20/14 17:28	2
Bromoform	<0.56		2.0	0.56	ug/L			04/20/14 17:28	2
Bromomethane	<0.62		2.0	0.62	ug/L			04/20/14 17:28	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			04/20/14 17:28	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			04/20/14 17:28	2
Chloroethane	<0.68		2.0	0.68	ug/L			04/20/14 17:28	2
Chloroform	<0.40		2.0	0.40	ug/L			04/20/14 17:28	2
Chloromethane	<0.36		2.0	0.36	ug/L			04/20/14 17:28	2
cis-1,2-Dichloroethene	140		2.0	0.24	ug/L			04/20/14 17:28	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			04/20/14 17:28	2

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: 500-75180-9

Date Collected: 04/15/14 15:00

Matrix: Water

Date Received: 04/16/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<0.64		2.0	0.64	ug/L			04/20/14 17:28	2
Dibromomethane	<0.66		2.0	0.66	ug/L			04/20/14 17:28	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			04/20/14 17:28	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			04/20/14 17:28	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			04/20/14 17:28	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			04/20/14 17:28	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			04/20/14 17:28	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			04/20/14 17:28	2
Methylene Chloride	<1.4		10	1.4	ug/L			04/20/14 17:28	2
Naphthalene	<0.32		2.0	0.32	ug/L			04/20/14 17:28	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			04/20/14 17:28	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			04/20/14 17:28	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			04/20/14 17:28	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			04/20/14 17:28	2
Styrene	<0.20		2.0	0.20	ug/L			04/20/14 17:28	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			04/20/14 17:28	2
Toluene	<0.22		1.0	0.22	ug/L			04/20/14 17:28	2
trans-1,2-Dichloroethene	1.5	J	2.0	0.50	ug/L			04/20/14 17:28	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			04/20/14 17:28	2
Trichloroethene	130		1.0	0.38	ug/L			04/20/14 17:28	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			04/20/14 17:28	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/20/14 17:28	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			04/20/14 17:28	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125		04/20/14 17:28	2
4-Bromofluorobenzene (Surr)	90		75 - 120		04/20/14 17:28	2
Dibromofluoromethane	92		75 - 120		04/20/14 17:28	2
Toluene-d8 (Surr)	93		75 - 120		04/20/14 17:28	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			04/20/14 17:55	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125		04/20/14 17:55	20
4-Bromofluorobenzene (Surr)	91		75 - 120		04/20/14 17:55	20
Dibromofluoromethane	91		75 - 120		04/20/14 17:55	20
Toluene-d8 (Surr)	93		75 - 120		04/20/14 17:55	20

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

Lab Sample ID: 500-75180-10

Date Collected: 04/15/14 14:40

Matrix: Water

Date Received: 04/16/14 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			04/20/14 18:22	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/20/14 18:22	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/20/14 18:22	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/20/14 18:22	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: 500-75180-10

Date Collected: 04/15/14 14:40

Matrix: Water

Date Received: 04/16/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/20/14 18:22	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/20/14 18:22	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/20/14 18:22	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/20/14 18:22	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/20/14 18:22	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/20/14 18:22	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 18:22	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/20/14 18:22	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/20/14 18:22	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/20/14 18:22	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/20/14 18:22	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/20/14 18:22	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/20/14 18:22	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/20/14 18:22	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/20/14 18:22	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/20/14 18:22	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/20/14 18:22	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/20/14 18:22	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/20/14 18:22	1
Benzene	<0.074		0.50	0.074	ug/L			04/20/14 18:22	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/20/14 18:22	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/20/14 18:22	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/20/14 18:22	1
Bromoform	<0.28		1.0	0.28	ug/L			04/20/14 18:22	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/20/14 18:22	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/20/14 18:22	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/20/14 18:22	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/20/14 18:22	1
Chloroform	<0.20		1.0	0.20	ug/L			04/20/14 18:22	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/20/14 18:22	1
cis-1,2-Dichloroethene	17		1.0	0.12	ug/L			04/20/14 18:22	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/20/14 18:22	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/20/14 18:22	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/20/14 18:22	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/20/14 18:22	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/20/14 18:22	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/20/14 18:22	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/20/14 18:22	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 18:22	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/20/14 18:22	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/20/14 18:22	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/20/14 18:22	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/20/14 18:22	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/20/14 18:22	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/20/14 18:22	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/20/14 18:22	1
Styrene	<0.10		1.0	0.10	ug/L			04/20/14 18:22	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 18:22	1
Tetrachloroethene	73		1.0	0.17	ug/L			04/20/14 18:22	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: 500-75180-10

Date Collected: 04/15/14 14:40

Matrix: Water

Date Received: 04/16/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.11		0.50	0.11	ug/L			04/20/14 18:22	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/20/14 18:22	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/20/14 18:22	1
Trichloroethene	12		0.50	0.19	ug/L			04/20/14 18:22	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/20/14 18:22	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/20/14 18:22	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/20/14 18:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 125					04/20/14 18:22	1
4-Bromofluorobenzene (Surr)	93		75 - 120					04/20/14 18:22	1
Dibromofluoromethane	91		75 - 120					04/20/14 18:22	1
Toluene-d8 (Surr)	94		75 - 120					04/20/14 18:22	1

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

Lab Sample ID: 500-75180-11

Date Collected: 04/15/14 17:15

Matrix: Water

Date Received: 04/16/14 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			04/20/14 18:49	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/20/14 18:49	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/20/14 18:49	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/20/14 18:49	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/20/14 18:49	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/20/14 18:49	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/20/14 18:49	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/20/14 18:49	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/20/14 18:49	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/20/14 18:49	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 18:49	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/20/14 18:49	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/20/14 18:49	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/20/14 18:49	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/20/14 18:49	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/20/14 18:49	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/20/14 18:49	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/20/14 18:49	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/20/14 18:49	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/20/14 18:49	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/20/14 18:49	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/20/14 18:49	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/20/14 18:49	1
Benzene	<0.074		0.50	0.074	ug/L			04/20/14 18:49	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/20/14 18:49	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/20/14 18:49	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/20/14 18:49	1
Bromoform	<0.28		1.0	0.28	ug/L			04/20/14 18:49	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/20/14 18:49	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/20/14 18:49	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: 500-75180-11

Date Collected: 04/15/14 17:15

Matrix: Water

Date Received: 04/16/14 09:45

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			04/20/14 18:49	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/20/14 18:49	1
Chloroform	<0.20		1.0	0.20	ug/L			04/20/14 18:49	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/20/14 18:49	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/20/14 18:49	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/20/14 18:49	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/20/14 18:49	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/20/14 18:49	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/20/14 18:49	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/20/14 18:49	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/20/14 18:49	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/20/14 18:49	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 18:49	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/20/14 18:49	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/20/14 18:49	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/20/14 18:49	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/20/14 18:49	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/20/14 18:49	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/20/14 18:49	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/20/14 18:49	1
Styrene	<0.10		1.0	0.10	ug/L			04/20/14 18:49	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 18:49	1
Tetrachloroethene	0.56 J		1.0	0.17	ug/L			04/20/14 18:49	1
Toluene	<0.11		0.50	0.11	ug/L			04/20/14 18:49	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/20/14 18:49	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/20/14 18:49	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/20/14 18:49	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/20/14 18:49	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/20/14 18:49	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/20/14 18:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 125		04/20/14 18:49	1
4-Bromofluorobenzene (Surr)	92		75 - 120		04/20/14 18:49	1
Dibromofluoromethane	91		75 - 120		04/20/14 18:49	1
Toluene-d8 (Surr)	94		75 - 120		04/20/14 18:49	1

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

Lab Sample ID: 500-75180-12

Date Collected: 04/15/14 17:00

Matrix: Water

Date Received: 04/16/14 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			04/20/14 19:17	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/20/14 19:17	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/20/14 19:17	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/20/14 19:17	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/20/14 19:17	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/20/14 19:17	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/20/14 19:17	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: 500-75180-12

Date Collected: 04/15/14 17:00

Matrix: Water

Date Received: 04/16/14 09:45

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			04/20/14 19:17	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/20/14 19:17	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/20/14 19:17	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 19:17	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/20/14 19:17	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/20/14 19:17	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/20/14 19:17	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/20/14 19:17	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/20/14 19:17	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/20/14 19:17	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/20/14 19:17	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/20/14 19:17	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/20/14 19:17	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/20/14 19:17	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/20/14 19:17	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/20/14 19:17	1
Benzene	<0.074		0.50	0.074	ug/L			04/20/14 19:17	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/20/14 19:17	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/20/14 19:17	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/20/14 19:17	1
Bromoform	<0.28		1.0	0.28	ug/L			04/20/14 19:17	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/20/14 19:17	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/20/14 19:17	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/20/14 19:17	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/20/14 19:17	1
Chloroform	<0.20		1.0	0.20	ug/L			04/20/14 19:17	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/20/14 19:17	1
cis-1,2-Dichloroethene	5.4		1.0	0.12	ug/L			04/20/14 19:17	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/20/14 19:17	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/20/14 19:17	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/20/14 19:17	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/20/14 19:17	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/20/14 19:17	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/20/14 19:17	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/20/14 19:17	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 19:17	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/20/14 19:17	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/20/14 19:17	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/20/14 19:17	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/20/14 19:17	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/20/14 19:17	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/20/14 19:17	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/20/14 19:17	1
Styrene	<0.10		1.0	0.10	ug/L			04/20/14 19:17	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 19:17	1
Toluene	<0.11		0.50	0.11	ug/L			04/20/14 19:17	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/20/14 19:17	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/20/14 19:17	1
Trichloroethene	30		0.50	0.19	ug/L			04/20/14 19:17	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: 500-75180-12

Date Collected: 04/15/14 17:00

Matrix: Water

Date Received: 04/16/14 09:45

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			04/20/14 19:17	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/20/14 19:17	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/20/14 19:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125					04/20/14 19:17	1
4-Bromofluorobenzene (Surr)	90		75 - 120					04/20/14 19:17	1
Dibromofluoromethane	89		75 - 120					04/20/14 19:17	1
Toluene-d8 (Surr)	93		75 - 120					04/20/14 19:17	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	330		10	1.7	ug/L			04/20/14 19:44	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125					04/20/14 19:44	10
4-Bromofluorobenzene (Surr)	93		75 - 120					04/20/14 19:44	10
Dibromofluoromethane	91		75 - 120					04/20/14 19:44	10
Toluene-d8 (Surr)	96		75 - 120					04/20/14 19:44	10

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

Lab Sample ID: 500-75180-13

Date Collected: 04/15/14 16:45

Matrix: Water

Date Received: 04/16/14 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			04/22/14 00:47	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/22/14 00:47	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/22/14 00:47	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 00:47	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/22/14 00:47	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/22/14 00:47	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/22/14 00:47	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/22/14 00:47	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/22/14 00:47	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/22/14 00:47	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 00:47	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/22/14 00:47	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/22/14 00:47	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/22/14 00:47	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 00:47	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/22/14 00:47	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/22/14 00:47	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 00:47	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/22/14 00:47	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 00:47	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/22/14 00:47	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/22/14 00:47	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/22/14 00:47	1
Benzene	<0.074		0.50	0.074	ug/L			04/22/14 00:47	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: 500-75180-13

Date Collected: 04/15/14 16:45

Matrix: Water

Date Received: 04/16/14 09:45

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			04/22/14 00:47	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/22/14 00:47	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/22/14 00:47	1
Bromoform	<0.28		1.0	0.28	ug/L			04/22/14 00:47	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/22/14 00:47	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/22/14 00:47	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/22/14 00:47	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/22/14 00:47	1
Chloroform	<0.20		1.0	0.20	ug/L			04/22/14 00:47	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/22/14 00:47	1
cis-1,2-Dichloroethene	1.4		1.0	0.12	ug/L			04/22/14 00:47	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/22/14 00:47	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/22/14 00:47	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/22/14 00:47	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/22/14 00:47	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/22/14 00:47	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/22/14 00:47	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/22/14 00:47	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 00:47	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/22/14 00:47	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/22/14 00:47	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/22/14 00:47	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 00:47	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 00:47	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/22/14 00:47	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/22/14 00:47	1
Styrene	<0.10		1.0	0.10	ug/L			04/22/14 00:47	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 00:47	1
Tetrachloroethene	38		1.0	0.17	ug/L			04/22/14 00:47	1
Toluene	<0.11		0.50	0.11	ug/L			04/22/14 00:47	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/22/14 00:47	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/22/14 00:47	1
Trichloroethene	6.1		0.50	0.19	ug/L			04/22/14 00:47	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/22/14 00:47	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/22/14 00:47	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/22/14 00:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 125		04/22/14 00:47	1
4-Bromofluorobenzene (Surr)	95		75 - 120		04/22/14 00:47	1
Dibromofluoromethane	90		75 - 120		04/22/14 00:47	1
Toluene-d8 (Surr)	96		75 - 120		04/22/14 00:47	1

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

Lab Sample ID: 500-75180-14

Date Collected: 04/15/14 16:30

Matrix: Water

Date Received: 04/16/14 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			04/22/14 01:15	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: 500-75180-14

Date Collected: 04/15/14 16:30

Matrix: Water

Date Received: 04/16/14 09:45

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			04/22/14 01:15	1
1,1,1,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/22/14 01:15	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 01:15	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/22/14 01:15	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/22/14 01:15	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/22/14 01:15	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/22/14 01:15	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/22/14 01:15	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/22/14 01:15	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 01:15	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/22/14 01:15	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/22/14 01:15	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/22/14 01:15	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 01:15	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/22/14 01:15	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/22/14 01:15	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 01:15	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/22/14 01:15	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 01:15	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/22/14 01:15	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/22/14 01:15	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/22/14 01:15	1
Benzene	<0.074		0.50	0.074	ug/L			04/22/14 01:15	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/22/14 01:15	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/22/14 01:15	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/22/14 01:15	1
Bromoform	<0.28		1.0	0.28	ug/L			04/22/14 01:15	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/22/14 01:15	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/22/14 01:15	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/22/14 01:15	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/22/14 01:15	1
Chloroform	<0.20		1.0	0.20	ug/L			04/22/14 01:15	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/22/14 01:15	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/22/14 01:15	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/22/14 01:15	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/22/14 01:15	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/22/14 01:15	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/22/14 01:15	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/22/14 01:15	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/22/14 01:15	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/22/14 01:15	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 01:15	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/22/14 01:15	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/22/14 01:15	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/22/14 01:15	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 01:15	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 01:15	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/22/14 01:15	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/22/14 01:15	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: 500-75180-14

Date Collected: 04/15/14 16:30

Matrix: Water

Date Received: 04/16/14 09:45

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			04/22/14 01:15	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 01:15	1
Tetrachloroethene	3.8		1.0	0.17	ug/L			04/22/14 01:15	1
Toluene	<0.11		0.50	0.11	ug/L			04/22/14 01:15	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/22/14 01:15	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/22/14 01:15	1
Trichloroethene	0.87		0.50	0.19	ug/L			04/22/14 01:15	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/22/14 01:15	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/22/14 01:15	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/22/14 01:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 125					04/22/14 01:15	1
4-Bromofluorobenzene (Surr)	95		75 - 120					04/22/14 01:15	1
Dibromofluoromethane	92		75 - 120					04/22/14 01:15	1
Toluene-d8 (Surr)	95		75 - 120					04/22/14 01:15	1

Client Sample ID: MW-5S

Lab Sample ID: 500-75180-15

Date Collected: 04/15/14 11:47

Matrix: Water

Date Received: 04/16/14 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			04/22/14 01:42	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/22/14 01:42	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/22/14 01:42	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 01:42	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/22/14 01:42	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/22/14 01:42	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/22/14 01:42	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/22/14 01:42	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/22/14 01:42	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/22/14 01:42	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 01:42	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/22/14 01:42	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/22/14 01:42	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/22/14 01:42	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 01:42	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/22/14 01:42	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/22/14 01:42	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 01:42	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/22/14 01:42	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 01:42	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/22/14 01:42	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/22/14 01:42	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/22/14 01:42	1
Benzene	<0.074		0.50	0.074	ug/L			04/22/14 01:42	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/22/14 01:42	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/22/14 01:42	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/22/14 01:42	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: MW-5S

Lab Sample ID: 500-75180-15

Date Collected: 04/15/14 11:47

Matrix: Water

Date Received: 04/16/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<0.28		1.0	0.28	ug/L			04/22/14 01:42	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/22/14 01:42	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/22/14 01:42	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/22/14 01:42	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/22/14 01:42	1
Chloroform	<0.20		1.0	0.20	ug/L			04/22/14 01:42	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/22/14 01:42	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/22/14 01:42	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/22/14 01:42	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/22/14 01:42	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/22/14 01:42	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/22/14 01:42	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/22/14 01:42	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/22/14 01:42	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/22/14 01:42	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 01:42	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/22/14 01:42	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/22/14 01:42	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/22/14 01:42	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 01:42	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 01:42	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/22/14 01:42	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/22/14 01:42	1
Styrene	<0.10		1.0	0.10	ug/L			04/22/14 01:42	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 01:42	1
Tetrachloroethene	47		1.0	0.17	ug/L			04/22/14 01:42	1
Toluene	<0.11		0.50	0.11	ug/L			04/22/14 01:42	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/22/14 01:42	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/22/14 01:42	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/22/14 01:42	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/22/14 01:42	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/22/14 01:42	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/22/14 01:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125		04/22/14 01:42	1
4-Bromofluorobenzene (Surr)	96		75 - 120		04/22/14 01:42	1
Dibromofluoromethane	91		75 - 120		04/22/14 01:42	1
Toluene-d8 (Surr)	95		75 - 120		04/22/14 01:42	1

Client Sample ID: MW-5D

Lab Sample ID: 500-75180-16

Date Collected: 04/15/14 13:28

Matrix: Water

Date Received: 04/16/14 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			04/22/14 02:09	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/22/14 02:09	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/22/14 02:09	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 02:09	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: MW-5D

Lab Sample ID: 500-75180-16

Date Collected: 04/15/14 13:28

Matrix: Water

Date Received: 04/16/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/22/14 02:09	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/22/14 02:09	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/22/14 02:09	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/22/14 02:09	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/22/14 02:09	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/22/14 02:09	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 02:09	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/22/14 02:09	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/22/14 02:09	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/22/14 02:09	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 02:09	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/22/14 02:09	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/22/14 02:09	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 02:09	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/22/14 02:09	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 02:09	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/22/14 02:09	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/22/14 02:09	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/22/14 02:09	1
Benzene	0.30	J	0.50	0.074	ug/L			04/22/14 02:09	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/22/14 02:09	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/22/14 02:09	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/22/14 02:09	1
Bromoform	<0.28		1.0	0.28	ug/L			04/22/14 02:09	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/22/14 02:09	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/22/14 02:09	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/22/14 02:09	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/22/14 02:09	1
Chloroform	<0.20		1.0	0.20	ug/L			04/22/14 02:09	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/22/14 02:09	1
cis-1,2-Dichloroethene	77		1.0	0.12	ug/L			04/22/14 02:09	1
cis-1,3-Dichloropropane	<0.18		1.0	0.18	ug/L			04/22/14 02:09	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/22/14 02:09	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/22/14 02:09	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/22/14 02:09	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/22/14 02:09	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/22/14 02:09	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/22/14 02:09	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 02:09	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/22/14 02:09	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/22/14 02:09	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/22/14 02:09	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 02:09	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 02:09	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/22/14 02:09	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/22/14 02:09	1
Styrene	<0.10		1.0	0.10	ug/L			04/22/14 02:09	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 02:09	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/22/14 02:09	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: MW-5D

Lab Sample ID: 500-75180-16

Date Collected: 04/15/14 13:28

Matrix: Water

Date Received: 04/16/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<0.11		0.50	0.11	ug/L			04/22/14 02:09	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/22/14 02:09	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/22/14 02:09	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/22/14 02:09	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/22/14 02:09	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/22/14 02:09	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/22/14 02:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 125		04/22/14 02:09	1
4-Bromofluorobenzene (Surr)	94		75 - 120		04/22/14 02:09	1
Dibromofluoromethane	92		75 - 120		04/22/14 02:09	1
Toluene-d8 (Surr)	94		75 - 120		04/22/14 02:09	1

Client Sample ID: MW-5D2

Lab Sample ID: 500-75180-17

Date Collected: 04/15/14 11:25

Matrix: Water

Date Received: 04/16/14 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	<0.50		2.0	0.50	ug/L			04/22/14 02:36	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			04/22/14 02:36	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			04/22/14 02:36	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			04/22/14 02:36	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			04/22/14 02:36	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			04/22/14 02:36	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			04/22/14 02:36	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			04/22/14 02:36	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			04/22/14 02:36	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			04/22/14 02:36	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			04/22/14 02:36	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			04/22/14 02:36	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			04/22/14 02:36	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			04/22/14 02:36	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			04/22/14 02:36	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			04/22/14 02:36	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			04/22/14 02:36	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/22/14 02:36	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			04/22/14 02:36	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/22/14 02:36	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			04/22/14 02:36	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			04/22/14 02:36	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			04/22/14 02:36	2
Benzene	<0.15		1.0	0.15	ug/L			04/22/14 02:36	2
Bromobenzene	<0.50		2.0	0.50	ug/L			04/22/14 02:36	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			04/22/14 02:36	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			04/22/14 02:36	2
Bromoform	<0.56		2.0	0.56	ug/L			04/22/14 02:36	2
Bromomethane	<0.62		2.0	0.62	ug/L			04/22/14 02:36	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			04/22/14 02:36	2

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: MW-5D2

Lab Sample ID: 500-75180-17

Date Collected: 04/15/14 11:25

Matrix: Water

Date Received: 04/16/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<0.28		2.0	0.28	ug/L			04/22/14 02:36	2
Chloroethane	<0.68		2.0	0.68	ug/L			04/22/14 02:36	2
Chloroform	<0.40		2.0	0.40	ug/L			04/22/14 02:36	2
Chloromethane	<0.36		2.0	0.36	ug/L			04/22/14 02:36	2
cis-1,2-Dichloroethene	<0.24		2.0	0.24	ug/L			04/22/14 02:36	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			04/22/14 02:36	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			04/22/14 02:36	2
Dibromomethane	<0.66		2.0	0.66	ug/L			04/22/14 02:36	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			04/22/14 02:36	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			04/22/14 02:36	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			04/22/14 02:36	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			04/22/14 02:36	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			04/22/14 02:36	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			04/22/14 02:36	2
Methylene Chloride	<1.4		10	1.4	ug/L			04/22/14 02:36	2
Naphthalene	<0.32		2.0	0.32	ug/L			04/22/14 02:36	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			04/22/14 02:36	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			04/22/14 02:36	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			04/22/14 02:36	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			04/22/14 02:36	2
Styrene	<0.20		2.0	0.20	ug/L			04/22/14 02:36	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			04/22/14 02:36	2
Toluene	<0.22		1.0	0.22	ug/L			04/22/14 02:36	2
trans-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			04/22/14 02:36	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			04/22/14 02:36	2
Trichloroethene	7.1		1.0	0.38	ug/L			04/22/14 02:36	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			04/22/14 02:36	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/22/14 02:36	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			04/22/14 02:36	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 125		04/22/14 02:36	2
4-Bromofluorobenzene (Surr)	94		75 - 120		04/22/14 02:36	2
Dibromofluoromethane	92		75 - 120		04/22/14 02:36	2
Toluene-d8 (Surr)	94		75 - 120		04/22/14 02:36	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	520		20	3.4	ug/L			04/22/14 03:03	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 125		04/22/14 03:03	20
4-Bromofluorobenzene (Surr)	96		75 - 120		04/22/14 03:03	20
Dibromofluoromethane	91		75 - 120		04/22/14 03:03	20
Toluene-d8 (Surr)	94		75 - 120		04/22/14 03:03	20

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: MW-20D

Lab Sample ID: 500-75180-18

Date Collected: 04/15/14 16:43

Matrix: Water

Date Received: 04/16/14 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	<0.50		2.0	0.50	ug/L			04/22/14 03:31	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			04/22/14 03:31	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			04/22/14 03:31	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			04/22/14 03:31	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			04/22/14 03:31	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			04/22/14 03:31	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			04/22/14 03:31	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			04/22/14 03:31	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			04/22/14 03:31	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			04/22/14 03:31	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			04/22/14 03:31	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			04/22/14 03:31	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			04/22/14 03:31	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			04/22/14 03:31	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			04/22/14 03:31	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			04/22/14 03:31	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			04/22/14 03:31	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/22/14 03:31	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			04/22/14 03:31	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/22/14 03:31	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			04/22/14 03:31	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			04/22/14 03:31	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			04/22/14 03:31	2
Benzene	<0.15		1.0	0.15	ug/L			04/22/14 03:31	2
Bromobenzene	<0.50		2.0	0.50	ug/L			04/22/14 03:31	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			04/22/14 03:31	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			04/22/14 03:31	2
Bromoform	<0.56		2.0	0.56	ug/L			04/22/14 03:31	2
Bromomethane	<0.62		2.0	0.62	ug/L			04/22/14 03:31	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			04/22/14 03:31	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			04/22/14 03:31	2
Chloroethane	<0.68		2.0	0.68	ug/L			04/22/14 03:31	2
Chloroform	<0.40		2.0	0.40	ug/L			04/22/14 03:31	2
Chloromethane	<0.36		2.0	0.36	ug/L			04/22/14 03:31	2
cis-1,2-Dichloroethene	140		2.0	0.24	ug/L			04/22/14 03:31	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			04/22/14 03:31	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			04/22/14 03:31	2
Dibromomethane	<0.66		2.0	0.66	ug/L			04/22/14 03:31	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			04/22/14 03:31	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			04/22/14 03:31	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			04/22/14 03:31	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			04/22/14 03:31	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			04/22/14 03:31	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			04/22/14 03:31	2
Methylene Chloride	<1.4		10	1.4	ug/L			04/22/14 03:31	2
Naphthalene	<0.32		2.0	0.32	ug/L			04/22/14 03:31	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			04/22/14 03:31	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			04/22/14 03:31	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			04/22/14 03:31	2

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: MW-20D

Lab Sample ID: 500-75180-18

Date Collected: 04/15/14 16:43

Matrix: Water

Date Received: 04/16/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			04/22/14 03:31	2
Styrene	<0.20		2.0	0.20	ug/L			04/22/14 03:31	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			04/22/14 03:31	2
Toluene	<0.22		1.0	0.22	ug/L			04/22/14 03:31	2
trans-1,2-Dichloroethene	2.0		2.0	0.50	ug/L			04/22/14 03:31	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			04/22/14 03:31	2
Trichloroethene	83		1.0	0.38	ug/L			04/22/14 03:31	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			04/22/14 03:31	2
Vinyl chloride	0.76	J	1.0	0.20	ug/L			04/22/14 03:31	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			04/22/14 03:31	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125		04/22/14 03:31	2
4-Bromofluorobenzene (Surr)	96		75 - 120		04/22/14 03:31	2
Dibromofluoromethane	91		75 - 120		04/22/14 03:31	2
Toluene-d8 (Surr)	94		75 - 120		04/22/14 03:31	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	780		20	3.4	ug/L			04/22/14 03:58	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125		04/22/14 03:58	20
4-Bromofluorobenzene (Surr)	97		75 - 120		04/22/14 03:58	20
Dibromofluoromethane	90		75 - 120		04/22/14 03:58	20
Toluene-d8 (Surr)	94		75 - 120		04/22/14 03:58	20

Client Sample ID: MW-20D2

Lab Sample ID: 500-75180-19

Date Collected: 04/15/14 15:25

Matrix: Water

Date Received: 04/16/14 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	<1.3		5.0	1.3	ug/L			04/22/14 04:25	5
1,1,1-Trichloroethane	<1.0		5.0	1.0	ug/L			04/22/14 04:25	5
1,1,1,2-Tetrachloroethane	<1.2		5.0	1.2	ug/L			04/22/14 04:25	5
1,1,2-Trichloroethane	<1.4		5.0	1.4	ug/L			04/22/14 04:25	5
1,1-Dichloroethane	<0.95		5.0	0.95	ug/L			04/22/14 04:25	5
1,1-Dichloroethene	<1.6		5.0	1.6	ug/L			04/22/14 04:25	5
1,1-Dichloropropene	<1.7		5.0	1.7	ug/L			04/22/14 04:25	5
1,2,3-Trichlorobenzene	<1.2		5.0	1.2	ug/L			04/22/14 04:25	5
1,2,3-Trichloropropane	<2.3		5.0	2.3	ug/L			04/22/14 04:25	5
1,2,4-Trichlorobenzene	<1.6		5.0	1.6	ug/L			04/22/14 04:25	5
1,2,4-Trimethylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 04:25	5
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/L			04/22/14 04:25	5
1,2-Dibromoethane	<1.8		5.0	1.8	ug/L			04/22/14 04:25	5
1,2-Dichlorobenzene	<1.4		5.0	1.4	ug/L			04/22/14 04:25	5
1,2-Dichloroethane	<1.4		5.0	1.4	ug/L			04/22/14 04:25	5
1,2-Dichloropropane	<1.0		5.0	1.0	ug/L			04/22/14 04:25	5
1,3,5-Trimethylbenzene	<0.90		5.0	0.90	ug/L			04/22/14 04:25	5

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: MW-20D2

Lab Sample ID: 500-75180-19

Date Collected: 04/15/14 15:25

Matrix: Water

Date Received: 04/16/14 09:45

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			04/22/14 04:25	5
1,3-Dichloropropane	<0.65		5.0	0.65	ug/L			04/22/14 04:25	5
1,4-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/22/14 04:25	5
2,2-Dichloropropane	<1.6		5.0	1.6	ug/L			04/22/14 04:25	5
2-Chlorotoluene	<1.1		5.0	1.1	ug/L			04/22/14 04:25	5
4-Chlorotoluene	<1.0		5.0	1.0	ug/L			04/22/14 04:25	5
Benzene	<0.37		2.5	0.37	ug/L			04/22/14 04:25	5
Bromobenzene	<1.3		5.0	1.3	ug/L			04/22/14 04:25	5
Bromochloromethane	<2.0		5.0	2.0	ug/L			04/22/14 04:25	5
Bromodichloromethane	<0.85		5.0	0.85	ug/L			04/22/14 04:25	5
Bromoform	<1.4		5.0	1.4	ug/L			04/22/14 04:25	5
Bromomethane	<1.6		5.0	1.6	ug/L			04/22/14 04:25	5
Carbon tetrachloride	<1.3		5.0	1.3	ug/L			04/22/14 04:25	5
Chlorobenzene	<0.70		5.0	0.70	ug/L			04/22/14 04:25	5
Chloroethane	<1.7		5.0	1.7	ug/L			04/22/14 04:25	5
Chloroform	<1.0		5.0	1.0	ug/L			04/22/14 04:25	5
Chloromethane	<0.90		5.0	0.90	ug/L			04/22/14 04:25	5
cis-1,2-Dichloroethene	<0.60		5.0	0.60	ug/L			04/22/14 04:25	5
cis-1,3-Dichloropropene	<0.90		5.0	0.90	ug/L			04/22/14 04:25	5
Dibromochloromethane	<1.6		5.0	1.6	ug/L			04/22/14 04:25	5
Dibromomethane	<1.7		5.0	1.7	ug/L			04/22/14 04:25	5
Dichlorodifluoromethane	<1.0		5.0	1.0	ug/L			04/22/14 04:25	5
Ethylbenzene	<0.65		2.5	0.65	ug/L			04/22/14 04:25	5
Hexachlorobutadiene	<1.3		5.0	1.3	ug/L			04/22/14 04:25	5
Isopropyl ether	<0.75		5.0	0.75	ug/L			04/22/14 04:25	5
Isopropylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 04:25	5
Methyl tert-butyl ether	<1.2		5.0	1.2	ug/L			04/22/14 04:25	5
Methylene Chloride	<3.4		25	3.4	ug/L			04/22/14 04:25	5
Naphthalene	<0.80		5.0	0.80	ug/L			04/22/14 04:25	5
n-Butylbenzene	<0.65		5.0	0.65	ug/L			04/22/14 04:25	5
N-Propylbenzene	<0.65		5.0	0.65	ug/L			04/22/14 04:25	5
p-Isopropyltoluene	<0.85		5.0	0.85	ug/L			04/22/14 04:25	5
sec-Butylbenzene	<0.75		5.0	0.75	ug/L			04/22/14 04:25	5
Styrene	<0.50		5.0	0.50	ug/L			04/22/14 04:25	5
tert-Butylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 04:25	5
Toluene	<0.55		2.5	0.55	ug/L			04/22/14 04:25	5
trans-1,2-Dichloroethene	<1.3		5.0	1.3	ug/L			04/22/14 04:25	5
trans-1,3-Dichloropropene	<1.1		5.0	1.1	ug/L			04/22/14 04:25	5
Trichloroethene	2.7		2.5	0.95	ug/L			04/22/14 04:25	5
Trichlorofluoromethane	<0.95		5.0	0.95	ug/L			04/22/14 04:25	5
Vinyl chloride	<0.50		2.5	0.50	ug/L			04/22/14 04:25	5
Xylenes, Total	<0.34		5.0	0.34	ug/L			04/22/14 04:25	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125		04/22/14 04:25	5
4-Bromofluorobenzene (Surr)	93		75 - 120		04/22/14 04:25	5
Dibromofluoromethane	91		75 - 120		04/22/14 04:25	5
Toluene-d8 (Surr)	94		75 - 120		04/22/14 04:25	5

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: MW-20D2

Lab Sample ID: 500-75180-19

Date Collected: 04/15/14 15:25

Matrix: Water

Date Received: 04/16/14 09:45

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			04/22/14 04:53	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 125					04/22/14 04:53	50
4-Bromofluorobenzene (Surr)	97		75 - 120					04/22/14 04:53	50
Dibromofluoromethane	90		75 - 120					04/22/14 04:53	50
Toluene-d8 (Surr)	94		75 - 120					04/22/14 04:53	50

Client Sample ID: MW-21D

Lab Sample ID: 500-75180-20

Date Collected: 04/15/14 15:02

Matrix: Water

Date Received: 04/16/14 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	<1.3		5.0	1.3	ug/L			04/22/14 05:20	5
1,1,1-Trichloroethane	<1.0		5.0	1.0	ug/L			04/22/14 05:20	5
1,1,2,2-Tetrachloroethane	<1.2		5.0	1.2	ug/L			04/22/14 05:20	5
1,1,2-Trichloroethane	<1.4		5.0	1.4	ug/L			04/22/14 05:20	5
1,1-Dichloroethane	<0.95		5.0	0.95	ug/L			04/22/14 05:20	5
1,1-Dichloroethene	<1.6		5.0	1.6	ug/L			04/22/14 05:20	5
1,1-Dichloropropene	<1.7		5.0	1.7	ug/L			04/22/14 05:20	5
1,2,3-Trichlorobenzene	<1.2		5.0	1.2	ug/L			04/22/14 05:20	5
1,2,3-Trichloropropane	<2.3		5.0	2.3	ug/L			04/22/14 05:20	5
1,2,4-Trichlorobenzene	<1.6		5.0	1.6	ug/L			04/22/14 05:20	5
1,2,4-Trimethylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 05:20	5
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/L			04/22/14 05:20	5
1,2-Dibromoethane	<1.8		5.0	1.8	ug/L			04/22/14 05:20	5
1,2-Dichlorobenzene	<1.4		5.0	1.4	ug/L			04/22/14 05:20	5
1,2-Dichloroethane	<1.4		5.0	1.4	ug/L			04/22/14 05:20	5
1,2-Dichloropropane	<1.0		5.0	1.0	ug/L			04/22/14 05:20	5
1,3,5-Trimethylbenzene	<0.90		5.0	0.90	ug/L			04/22/14 05:20	5
1,3-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/22/14 05:20	5
1,3-Dichloropropane	<0.65		5.0	0.65	ug/L			04/22/14 05:20	5
1,4-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/22/14 05:20	5
2,2-Dichloropropane	<1.6		5.0	1.6	ug/L			04/22/14 05:20	5
2-Chlorotoluene	<1.1		5.0	1.1	ug/L			04/22/14 05:20	5
4-Chlorotoluene	<1.0		5.0	1.0	ug/L			04/22/14 05:20	5
Benzene	<0.37		2.5	0.37	ug/L			04/22/14 05:20	5
Bromobenzene	<1.3		5.0	1.3	ug/L			04/22/14 05:20	5
Bromochloromethane	<2.0		5.0	2.0	ug/L			04/22/14 05:20	5
Bromodichloromethane	<0.85		5.0	0.85	ug/L			04/22/14 05:20	5
Bromoform	<1.4		5.0	1.4	ug/L			04/22/14 05:20	5
Bromomethane	<1.6		5.0	1.6	ug/L			04/22/14 05:20	5
Carbon tetrachloride	<1.3		5.0	1.3	ug/L			04/22/14 05:20	5
Chlorobenzene	<0.70		5.0	0.70	ug/L			04/22/14 05:20	5
Chloroethane	<1.7		5.0	1.7	ug/L			04/22/14 05:20	5
Chloroform	<1.0		5.0	1.0	ug/L			04/22/14 05:20	5
Chloromethane	<0.90		5.0	0.90	ug/L			04/22/14 05:20	5
cis-1,2-Dichloroethene	320		5.0	0.60	ug/L			04/22/14 05:20	5
cis-1,3-Dichloropropene	<0.90		5.0	0.90	ug/L			04/22/14 05:20	5

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: MW-21D

Lab Sample ID: 500-75180-20

Date Collected: 04/15/14 15:02

Matrix: Water

Date Received: 04/16/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<1.6		5.0	1.6	ug/L			04/22/14 05:20	5
Dibromomethane	<1.7		5.0	1.7	ug/L			04/22/14 05:20	5
Dichlorodifluoromethane	<1.0		5.0	1.0	ug/L			04/22/14 05:20	5
Ethylbenzene	<0.65		2.5	0.65	ug/L			04/22/14 05:20	5
Hexachlorobutadiene	<1.3		5.0	1.3	ug/L			04/22/14 05:20	5
Isopropyl ether	<0.75		5.0	0.75	ug/L			04/22/14 05:20	5
Isopropylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 05:20	5
Methyl tert-butyl ether	<1.2		5.0	1.2	ug/L			04/22/14 05:20	5
Methylene Chloride	<3.4		25	3.4	ug/L			04/22/14 05:20	5
Naphthalene	<0.80		5.0	0.80	ug/L			04/22/14 05:20	5
n-Butylbenzene	<0.65		5.0	0.65	ug/L			04/22/14 05:20	5
N-Propylbenzene	<0.65		5.0	0.65	ug/L			04/22/14 05:20	5
p-Isopropyltoluene	<0.85		5.0	0.85	ug/L			04/22/14 05:20	5
sec-Butylbenzene	<0.75		5.0	0.75	ug/L			04/22/14 05:20	5
Styrene	<0.50		5.0	0.50	ug/L			04/22/14 05:20	5
tert-Butylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 05:20	5
Toluene	<0.55		2.5	0.55	ug/L			04/22/14 05:20	5
trans-1,2-Dichloroethene	5.0		5.0	1.3	ug/L			04/22/14 05:20	5
trans-1,3-Dichloropropene	<1.1		5.0	1.1	ug/L			04/22/14 05:20	5
Trichloroethene	180		2.5	0.95	ug/L			04/22/14 05:20	5
Trichlorofluoromethane	<0.95		5.0	0.95	ug/L			04/22/14 05:20	5
Vinyl chloride	1.5 J		2.5	0.50	ug/L			04/22/14 05:20	5
Xylenes, Total	<0.34		5.0	0.34	ug/L			04/22/14 05:20	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 125		04/22/14 05:20	5
4-Bromofluorobenzene (Surr)	94		75 - 120		04/22/14 05:20	5
Dibromofluoromethane	91		75 - 120		04/22/14 05:20	5
Toluene-d8 (Surr)	93		75 - 120		04/22/14 05:20	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1800		50	8.5	ug/L			04/22/14 05:47	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125		04/22/14 05:47	50
4-Bromofluorobenzene (Surr)	93		75 - 120		04/22/14 05:47	50
Dibromofluoromethane	91		75 - 120		04/22/14 05:47	50
Toluene-d8 (Surr)	94		75 - 120		04/22/14 05:47	50

Client Sample ID: MW-21D2

Lab Sample ID: 500-75180-21

Date Collected: 04/15/14 16:30

Matrix: Water

Date Received: 04/16/14 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	<1.3		5.0	1.3	ug/L			04/22/14 06:15	5
1,1,1-Trichloroethane	<1.0		5.0	1.0	ug/L			04/22/14 06:15	5
1,1,2,2-Tetrachloroethane	<1.2		5.0	1.2	ug/L			04/22/14 06:15	5
1,1,2-Trichloroethane	<1.4		5.0	1.4	ug/L			04/22/14 06:15	5

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: MW-21D2

Lab Sample ID: 500-75180-21

Date Collected: 04/15/14 16:30

Matrix: Water

Date Received: 04/16/14 09:45

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			04/22/14 06:15	5
1,1-Dichloroethene	<1.6		5.0	1.6	ug/L			04/22/14 06:15	5
1,1-Dichloropropene	<1.7		5.0	1.7	ug/L			04/22/14 06:15	5
1,2,3-Trichlorobenzene	<1.2		5.0	1.2	ug/L			04/22/14 06:15	5
1,2,3-Trichloropropane	<2.3		5.0	2.3	ug/L			04/22/14 06:15	5
1,2,4-Trichlorobenzene	<1.6		5.0	1.6	ug/L			04/22/14 06:15	5
1,2,4-Trimethylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 06:15	5
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/L			04/22/14 06:15	5
1,2-Dibromoethane	<1.8		5.0	1.8	ug/L			04/22/14 06:15	5
1,2-Dichlorobenzene	<1.4		5.0	1.4	ug/L			04/22/14 06:15	5
1,2-Dichloroethane	<1.4		5.0	1.4	ug/L			04/22/14 06:15	5
1,2-Dichloropropane	<1.0		5.0	1.0	ug/L			04/22/14 06:15	5
1,3,5-Trimethylbenzene	<0.90		5.0	0.90	ug/L			04/22/14 06:15	5
1,3-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/22/14 06:15	5
1,3-Dichloropropane	<0.65		5.0	0.65	ug/L			04/22/14 06:15	5
1,4-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/22/14 06:15	5
2,2-Dichloropropane	<1.6		5.0	1.6	ug/L			04/22/14 06:15	5
2-Chlorotoluene	<1.1		5.0	1.1	ug/L			04/22/14 06:15	5
4-Chlorotoluene	<1.0		5.0	1.0	ug/L			04/22/14 06:15	5
Benzene	<0.37		2.5	0.37	ug/L			04/22/14 06:15	5
Bromobenzene	<1.3		5.0	1.3	ug/L			04/22/14 06:15	5
Bromochloromethane	<2.0		5.0	2.0	ug/L			04/22/14 06:15	5
Bromodichloromethane	<0.85		5.0	0.85	ug/L			04/22/14 06:15	5
Bromoform	<1.4		5.0	1.4	ug/L			04/22/14 06:15	5
Bromomethane	<1.6		5.0	1.6	ug/L			04/22/14 06:15	5
Carbon tetrachloride	<1.3		5.0	1.3	ug/L			04/22/14 06:15	5
Chlorobenzene	<0.70		5.0	0.70	ug/L			04/22/14 06:15	5
Chloroethane	<1.7		5.0	1.7	ug/L			04/22/14 06:15	5
Chloroform	<1.0		5.0	1.0	ug/L			04/22/14 06:15	5
Chloromethane	<0.90		5.0	0.90	ug/L			04/22/14 06:15	5
cis-1,2-Dichloroethene	110		5.0	0.60	ug/L			04/22/14 06:15	5
cis-1,3-Dichloropropene	<0.90		5.0	0.90	ug/L			04/22/14 06:15	5
Dibromochloromethane	<1.6		5.0	1.6	ug/L			04/22/14 06:15	5
Dibromomethane	<1.7		5.0	1.7	ug/L			04/22/14 06:15	5
Dichlorodifluoromethane	<1.0		5.0	1.0	ug/L			04/22/14 06:15	5
Ethylbenzene	<0.65		2.5	0.65	ug/L			04/22/14 06:15	5
Hexachlorobutadiene	<1.3		5.0	1.3	ug/L			04/22/14 06:15	5
Isopropyl ether	<0.75		5.0	0.75	ug/L			04/22/14 06:15	5
Isopropylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 06:15	5
Methyl tert-butyl ether	<1.2		5.0	1.2	ug/L			04/22/14 06:15	5
Methylene Chloride	<3.4		25	3.4	ug/L			04/22/14 06:15	5
Naphthalene	<0.80		5.0	0.80	ug/L			04/22/14 06:15	5
n-Butylbenzene	<0.65		5.0	0.65	ug/L			04/22/14 06:15	5
N-Propylbenzene	<0.65		5.0	0.65	ug/L			04/22/14 06:15	5
p-Isopropyltoluene	<0.85		5.0	0.85	ug/L			04/22/14 06:15	5
sec-Butylbenzene	<0.75		5.0	0.75	ug/L			04/22/14 06:15	5
Styrene	<0.50		5.0	0.50	ug/L			04/22/14 06:15	5
tert-Butylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 06:15	5
Toluene	<0.55		2.5	0.55	ug/L			04/22/14 06:15	5

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: MW-21D2

Lab Sample ID: 500-75180-21

Date Collected: 04/15/14 16:30

Matrix: Water

Date Received: 04/16/14 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<1.3		5.0	1.3	ug/L			04/22/14 06:15	5
trans-1,3-Dichloropropene	<1.1		5.0	1.1	ug/L			04/22/14 06:15	5
Trichloroethene	130		2.5	0.95	ug/L			04/22/14 06:15	5
Trichlorofluoromethane	<0.95		5.0	0.95	ug/L			04/22/14 06:15	5
Vinyl chloride	<0.50		2.5	0.50	ug/L			04/22/14 06:15	5
Xylenes, Total	<0.34		5.0	0.34	ug/L			04/22/14 06:15	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125		04/22/14 06:15	5
4-Bromofluorobenzene (Surr)	93		75 - 120		04/22/14 06:15	5
Dibromofluoromethane	91		75 - 120		04/22/14 06:15	5
Toluene-d8 (Surr)	94		75 - 120		04/22/14 06:15	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1900		50	8.5	ug/L			04/22/14 06:42	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 125		04/22/14 06:42	50
4-Bromofluorobenzene (Surr)	94		75 - 120		04/22/14 06:42	50
Dibromofluoromethane	91		75 - 120		04/22/14 06:42	50
Toluene-d8 (Surr)	94		75 - 120		04/22/14 06:42	50

Definitions/Glossary

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

TestAmerica Job ID: 500-75180-1

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
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: 500-75180-1

GC/MS VOA

Analysis Batch: 232357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-75180-1	Trip Blank	Total/NA	Water	8260B	
500-75180-2	MP-14 (170-178)	Total/NA	Water	8260B	
500-75180-2 - DL	MP-14 (170-178)	Total/NA	Water	8260B	
500-75180-3	MP-14 (135-140)	Total/NA	Water	8260B	
500-75180-3 - DL	MP-14 (135-140)	Total/NA	Water	8260B	
500-75180-4	MP-14 (100-105)	Total/NA	Water	8260B	
500-75180-4 MS	MP-14 (100-105)	Total/NA	Water	8260B	
500-75180-4 MSD	MP-14 (100-105)	Total/NA	Water	8260B	
500-75180-5	MP-14 (70-75)	Total/NA	Water	8260B	
500-75180-6	MP-15 (88-92)	Total/NA	Water	8260B	
500-75180-6 - DL	MP-15 (88-92)	Total/NA	Water	8260B	
500-75180-7	MP-15 (100-105)	Total/NA	Water	8260B	
500-75180-7 - DL	MP-15 (100-105)	Total/NA	Water	8260B	
500-75180-8	MP-15 (120-125)	Total/NA	Water	8260B	
500-75180-8 - DL	MP-15 (120-125)	Total/NA	Water	8260B	
500-75180-9	MP-15 (142-146)	Total/NA	Water	8260B	
500-75180-9 - DL	MP-15 (142-146)	Total/NA	Water	8260B	
500-75180-10	MP-15 (177-187)	Total/NA	Water	8260B	
500-75180-11	MP-16 (80-84)	Total/NA	Water	8260B	
500-75180-12	MP-16 (106-116)	Total/NA	Water	8260B	
500-75180-12 - DL	MP-16 (106-116)	Total/NA	Water	8260B	
LCS 500-232357/5	Lab Control Sample	Total/NA	Water	8260B	
MB 500-232357/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 232445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-75180-13	MP-16 (140-144)	Total/NA	Water	8260B	
500-75180-14	MP-16 (175-179)	Total/NA	Water	8260B	
500-75180-15	MW-5S	Total/NA	Water	8260B	
500-75180-16	MW-5D	Total/NA	Water	8260B	
500-75180-17	MW-5D2	Total/NA	Water	8260B	
500-75180-17 - DL	MW-5D2	Total/NA	Water	8260B	
500-75180-18	MW-20D	Total/NA	Water	8260B	
500-75180-18 - DL	MW-20D	Total/NA	Water	8260B	
500-75180-19	MW-20D2	Total/NA	Water	8260B	
500-75180-19 - DL	MW-20D2	Total/NA	Water	8260B	
500-75180-20	MW-21D	Total/NA	Water	8260B	
500-75180-20 - DL	MW-21D	Total/NA	Water	8260B	
500-75180-21	MW-21D2	Total/NA	Water	8260B	
500-75180-21 - DL	MW-21D2	Total/NA	Water	8260B	
LCS 500-232445/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-232445/6	Method Blank	Total/NA	Water	8260B	

Surrogate Summary

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

TestAmerica Job ID: 500-75180-1

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)
500-75180-1	Trip Blank	97	90	91	95
500-75180-2 - DL	MP-14 (170-178)	97	89	89	94
500-75180-2	MP-14 (170-178)	96	91	90	95
500-75180-3	MP-14 (135-140)	96	91	90	95
500-75180-3 - DL	MP-14 (135-140)	95	91	91	95
500-75180-4	MP-14 (100-105)	96	93	91	95
500-75180-4 MS	MP-14 (100-105)	94	92	92	95
500-75180-4 MSD	MP-14 (100-105)	97	89	93	95
500-75180-5	MP-14 (70-75)	98	93	91	95
500-75180-6	MP-15 (88-92)	96	90	89	95
500-75180-6 - DL	MP-15 (88-92)	95	90	92	95
500-75180-7	MP-15 (100-105)	97	92	92	95
500-75180-7 - DL	MP-15 (100-105)	97	92	90	94
500-75180-8	MP-15 (120-125)	97	92	89	94
500-75180-8 - DL	MP-15 (120-125)	98	92	92	94
500-75180-9	MP-15 (142-146)	98	90	92	93
500-75180-9 - DL	MP-15 (142-146)	98	91	91	93
500-75180-10	MP-15 (177-187)	99	93	91	94
500-75180-11	MP-16 (80-84)	99	92	91	94
500-75180-12	MP-16 (106-116)	98	90	89	93
500-75180-12 - DL	MP-16 (106-116)	98	93	91	96
500-75180-13	MP-16 (140-144)	97	95	90	96
500-75180-14	MP-16 (175-179)	97	95	92	95
500-75180-15	MW-5S	98	96	91	95
500-75180-16	MW-5D	97	94	92	94
500-75180-17	MW-5D2	96	94	92	94
500-75180-17 - DL	MW-5D2	96	96	91	94
500-75180-18	MW-20D	98	96	91	94
500-75180-18 - DL	MW-20D	98	97	90	94
500-75180-19	MW-20D2	98	93	91	94
500-75180-19 - DL	MW-20D2	99	97	90	94
500-75180-20	MW-21D	97	94	91	93
500-75180-20 - DL	MW-21D	98	93	91	94
500-75180-21	MW-21D2	98	93	91	94
500-75180-21 - DL	MW-21D2	97	94	91	94
LCS 500-232357/5	Lab Control Sample	95	91	92	96
LCS 500-232445/4	Lab Control Sample	98	93	93	94
MB 500-232357/7	Method Blank	99	90	91	93
MB 500-232445/6	Method Blank	101	95	91	94

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: 500-75180-1

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

Lab Sample ID: MB 500-232357/7

Matrix: Water

Analysis Batch: 232357

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			04/20/14 11:06	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/20/14 11:06	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/20/14 11:06	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/20/14 11:06	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/20/14 11:06	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/20/14 11:06	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/20/14 11:06	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/20/14 11:06	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/20/14 11:06	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/20/14 11:06	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 11:06	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/20/14 11:06	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/20/14 11:06	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/20/14 11:06	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/20/14 11:06	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/20/14 11:06	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/20/14 11:06	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/20/14 11:06	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/20/14 11:06	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/20/14 11:06	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/20/14 11:06	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/20/14 11:06	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/20/14 11:06	1
Benzene	<0.074		0.50	0.074	ug/L			04/20/14 11:06	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/20/14 11:06	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/20/14 11:06	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/20/14 11:06	1
Bromoform	<0.28		1.0	0.28	ug/L			04/20/14 11:06	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/20/14 11:06	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/20/14 11:06	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/20/14 11:06	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/20/14 11:06	1
Chloroform	<0.20		1.0	0.20	ug/L			04/20/14 11:06	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/20/14 11:06	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/20/14 11:06	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/20/14 11:06	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/20/14 11:06	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/20/14 11:06	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/20/14 11:06	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/20/14 11:06	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/20/14 11:06	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/20/14 11:06	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 11:06	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/20/14 11:06	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/20/14 11:06	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/20/14 11:06	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/20/14 11:06	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/20/14 11:06	1

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: MB 500-232357/7

Matrix: Water

Analysis Batch: 232357

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			04/20/14 11:06	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/20/14 11:06	1
Styrene	<0.10		1.0	0.10	ug/L			04/20/14 11:06	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/20/14 11:06	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/20/14 11:06	1
Toluene	<0.11		0.50	0.11	ug/L			04/20/14 11:06	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/20/14 11:06	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/20/14 11:06	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/20/14 11:06	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/20/14 11:06	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/20/14 11:06	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/20/14 11:06	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 125		04/20/14 11:06	1
4-Bromofluorobenzene (Surr)	90		75 - 120		04/20/14 11:06	1
Dibromofluoromethane	91		75 - 120		04/20/14 11:06	1
Toluene-d8 (Surr)	93		75 - 120		04/20/14 11:06	1

Lab Sample ID: LCS 500-232357/5

Matrix: Water

Analysis Batch: 232357

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	51.2		ug/L		102	75 - 122
1,1,1-Trichloroethane	50.0	49.0		ug/L		98	72 - 130
1,1,2,2-Tetrachloroethane	50.0	46.4		ug/L		93	72 - 130
1,1,2-Trichloroethane	50.0	47.9		ug/L		96	75 - 120
1,1-Dichloroethane	50.0	50.5		ug/L		101	75 - 120
1,1-Dichloroethene	50.0	50.0		ug/L		100	69 - 120
1,1-Dichloropropene	50.0	50.7		ug/L		101	75 - 130
1,2,3-Trichlorobenzene	50.0	50.4		ug/L		101	69 - 131
1,2,3-Trichloropropane	50.0	46.8		ug/L		94	65 - 132
1,2,4-Trichlorobenzene	50.0	50.7		ug/L		101	73 - 130
1,2,4-Trimethylbenzene	50.0	50.3		ug/L		101	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	42.4		ug/L		85	62 - 130
1,2-Dibromoethane	50.0	49.3		ug/L		99	78 - 122
1,2-Dichlorobenzene	50.0	50.1		ug/L		100	75 - 120
1,2-Dichloroethane	50.0	51.5		ug/L		103	69 - 130
1,2-Dichloropropane	50.0	49.5		ug/L		99	75 - 120
1,3,5-Trimethylbenzene	50.0	50.9		ug/L		102	75 - 121
1,3-Dichlorobenzene	50.0	50.9		ug/L		102	75 - 120
1,3-Dichloropropane	50.0	49.6		ug/L		99	77 - 124
1,4-Dichlorobenzene	50.0	50.0		ug/L		100	75 - 120
2,2-Dichloropropane	50.0	46.8		ug/L		94	65 - 132
2-Chlorotoluene	50.0	50.1		ug/L		100	75 - 120
4-Chlorotoluene	50.0	50.6		ug/L		101	75 - 120
Benzene	50.0	47.7		ug/L		95	75 - 120

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: LCS 500-232357/5

Matrix: Water

Analysis Batch: 232357

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	51.6		ug/L		103	75 - 120
Bromochloromethane	50.0	49.8		ug/L		100	76 - 120
Bromodichloromethane	50.0	47.5		ug/L		95	77 - 121
Bromoform	50.0	46.8		ug/L		94	68 - 126
Bromomethane	50.0	50.8		ug/L		102	45 - 169
Carbon tetrachloride	50.0	51.9		ug/L		104	70 - 130
Chlorobenzene	50.0	50.3		ug/L		101	75 - 120
Chloroethane	50.0	54.5		ug/L		109	58 - 147
Chloroform	50.0	48.0		ug/L		96	76 - 120
Chloromethane	50.0	52.5		ug/L		105	63 - 133
cis-1,2-Dichloroethene	50.0	47.7		ug/L		95	75 - 120
cis-1,3-Dichloropropene	50.0	48.6		ug/L		97	78 - 121
Dibromochloromethane	50.0	48.6		ug/L		97	71 - 126
Dibromomethane	50.0	49.3		ug/L		99	75 - 120
Dichlorodifluoromethane	50.0	51.2		ug/L		102	41 - 146
Ethylbenzene	50.0	50.4		ug/L		101	75 - 120
Hexachlorobutadiene	50.0	53.3		ug/L		107	71 - 131
Isopropylbenzene	50.0	51.3		ug/L		103	75 - 121
Methyl tert-butyl ether	50.0	47.7		ug/L		95	75 - 130
Methylene Chloride	50.0	48.6		ug/L		97	73 - 130
Naphthalene	50.0	46.8		ug/L		94	69 - 135
n-Butylbenzene	50.0	52.2		ug/L		104	75 - 121
N-Propylbenzene	50.0	51.5		ug/L		103	75 - 120
p-Isopropyltoluene	50.0	52.8		ug/L		106	75 - 121
sec-Butylbenzene	50.0	51.6		ug/L		103	75 - 120
Styrene	50.0	48.0		ug/L		96	75 - 120
tert-Butylbenzene	50.0	51.3		ug/L		103	75 - 123
Tetrachloroethene	50.0	52.2		ug/L		104	75 - 120
Toluene	50.0	50.4		ug/L		101	75 - 120
trans-1,2-Dichloroethene	50.0	48.7		ug/L		97	77 - 120
trans-1,3-Dichloropropene	50.0	52.2		ug/L		104	74 - 123
Trichloroethene	50.0	50.6		ug/L		101	75 - 120
Trichlorofluoromethane	50.0	52.7		ug/L		105	71 - 130
Vinyl chloride	50.0	48.2		ug/L		96	72 - 123
Xylenes, Total	100	98.7		ug/L		99	75 - 120

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	95		75 - 125
4-Bromofluorobenzene (Surr)	91		75 - 120
Dibromofluoromethane	92		75 - 120
Toluene-d8 (Surr)	96		75 - 120

Lab Sample ID: 500-75180-4 MS

Matrix: Water

Analysis Batch: 232357

Client Sample ID: MP-14 (100-105)

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	47.8		ug/L		96	75 - 122

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: 500-75180-4 MS

Client Sample ID: MP-14 (100-105)

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 232357

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,1,1-Trichloroethane	<0.20		50.0	45.2		ug/L		90	72 - 130
1,1,2,2-Tetrachloroethane	<0.23		50.0	46.0		ug/L		92	72 - 130
1,1,2-Trichloroethane	<0.28		50.0	44.1		ug/L		88	75 - 120
1,1-Dichloroethane	<0.19		50.0	46.8		ug/L		94	75 - 120
1,1-Dichloroethene	<0.31		50.0	43.4		ug/L		87	69 - 120
1,1-Dichloropropene	<0.34		50.0	46.2		ug/L		92	75 - 130
1,2,3-Trichlorobenzene	<0.24		50.0	50.0		ug/L		100	69 - 131
1,2,3-Trichloropropane	<0.45		50.0	45.1		ug/L		90	65 - 132
1,2,4-Trichlorobenzene	<0.31		50.0	47.2		ug/L		94	73 - 130
1,2,4-Trimethylbenzene	<0.14		50.0	46.9		ug/L		94	75 - 121
1,2-Dibromo-3-Chloropropane	<0.87		50.0	40.6		ug/L		81	62 - 130
1,2-Dibromoethane	<0.36		50.0	45.9		ug/L		92	78 - 122
1,2-Dichlorobenzene	<0.27		50.0	48.0		ug/L		96	75 - 120
1,2-Dichloroethane	<0.28		50.0	48.2		ug/L		96	69 - 130
1,2-Dichloropropane	<0.20		50.0	46.2		ug/L		92	75 - 120
1,3,5-Trimethylbenzene	<0.18		50.0	47.9		ug/L		96	75 - 121
1,3-Dichlorobenzene	<0.15		50.0	46.9		ug/L		94	75 - 120
1,3-Dichloropropane	<0.13		50.0	46.0		ug/L		92	77 - 124
1,4-Dichlorobenzene	<0.15		50.0	46.3		ug/L		93	75 - 120
2,2-Dichloropropane	<0.32		50.0	42.4		ug/L		85	65 - 132
2-Chlorotoluene	<0.21		50.0	46.9		ug/L		94	75 - 120
4-Chlorotoluene	<0.20		50.0	46.6		ug/L		93	75 - 120
Benzene	<0.074		50.0	44.4		ug/L		89	75 - 120
Bromobenzene	<0.25		50.0	48.8		ug/L		98	75 - 120
Bromochloromethane	<0.40		50.0	47.0		ug/L		94	76 - 120
Bromodichloromethane	<0.17		50.0	44.6		ug/L		89	77 - 121
Bromoform	<0.28		50.0	41.5		ug/L		83	68 - 126
Bromomethane	<0.31		50.0	48.9		ug/L		98	45 - 169
Carbon tetrachloride	<0.26		50.0	45.8		ug/L		92	70 - 130
Chlorobenzene	<0.14		50.0	45.9		ug/L		92	75 - 120
Chloroethane	<0.34		50.0	50.1		ug/L		100	58 - 147
Chloroform	<0.20		50.0	45.0		ug/L		90	76 - 120
Chloromethane	<0.18		50.0	49.2		ug/L		98	63 - 133
cis-1,2-Dichloroethene	<0.12		50.0	44.7		ug/L		89	75 - 120
cis-1,3-Dichloropropene	<0.18		50.0	43.8		ug/L		88	78 - 121
Dibromochloromethane	<0.32		50.0	43.9		ug/L		88	71 - 126
Dibromomethane	<0.33		50.0	46.0		ug/L		92	75 - 120
Dichlorodifluoromethane	<0.20		50.0	46.6		ug/L		93	41 - 146
Ethylbenzene	<0.13		50.0	46.3		ug/L		93	75 - 120
Hexachlorobutadiene	<0.26		50.0	53.1		ug/L		106	71 - 131
Isopropylbenzene	<0.14		50.0	48.2		ug/L		96	75 - 121
Methyl tert-butyl ether	<0.24		50.0	44.7		ug/L		89	75 - 130
Methylene Chloride	<0.68		50.0	45.7		ug/L		91	73 - 130
Naphthalene	<0.16		50.0	47.9		ug/L		96	69 - 135
n-Butylbenzene	<0.13		50.0	48.0		ug/L		96	75 - 121
N-Propylbenzene	<0.13		50.0	47.7		ug/L		95	75 - 120
p-Isopropyltoluene	<0.17		50.0	49.1		ug/L		98	75 - 121
sec-Butylbenzene	<0.15		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: 500-75180-1

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

Lab Sample ID: 500-75180-4 MS

Matrix: Water

Analysis Batch: 232357

Client Sample ID: MP-14 (100-105)

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	43.7		ug/L		87	75 - 120
tert-Butylbenzene	<0.14		50.0	48.2		ug/L		96	75 - 123
Tetrachloroethene	<0.17		50.0	46.5		ug/L		93	75 - 120
Toluene	<0.11		50.0	45.8		ug/L		92	75 - 120
trans-1,2-Dichloroethene	<0.25		50.0	44.5		ug/L		89	77 - 120
trans-1,3-Dichloropropene	<0.21		50.0	46.8		ug/L		94	74 - 123
Trichloroethene	<0.19		50.0	45.7		ug/L		91	75 - 120
Trichlorofluoromethane	<0.19		50.0	49.6		ug/L		99	71 - 130
Vinyl chloride	<0.10		50.0	46.0		ug/L		92	72 - 123
Xylenes, Total	<0.068		100	89.9		ug/L		90	75 - 120

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	94		75 - 125
4-Bromofluorobenzene (Surr)	92		75 - 120
Dibromofluoromethane	92		75 - 120
Toluene-d8 (Surr)	95		75 - 120

Lab Sample ID: 500-75180-4 MSD

Matrix: Water

Analysis Batch: 232357

Client Sample ID: MP-14 (100-105)

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	50.0		ug/L		100	75 - 122	4	20
1,1,1-Trichloroethane	<0.20		50.0	47.2		ug/L		94	72 - 130	4	20
1,1,1,2-Tetrachloroethane	<0.23		50.0	47.1		ug/L		94	72 - 130	2	20
1,1,2-Trichloroethane	<0.28		50.0	47.6		ug/L		95	75 - 120	8	20
1,1-Dichloroethane	<0.19		50.0	48.3		ug/L		97	75 - 120	3	20
1,1-Dichloroethene	<0.31		50.0	45.2		ug/L		90	69 - 120	4	20
1,1-Dichloropropene	<0.34		50.0	48.3		ug/L		97	75 - 130	4	20
1,2,3-Trichlorobenzene	<0.24		50.0	51.3		ug/L		103	69 - 131	3	20
1,2,3-Trichloropropane	<0.45		50.0	46.4		ug/L		93	65 - 132	3	20
1,2,4-Trichlorobenzene	<0.31		50.0	49.4		ug/L		99	73 - 130	5	20
1,2,4-Trimethylbenzene	<0.14		50.0	47.2		ug/L		94	75 - 121	1	20
1,2-Dibromo-3-Chloropropane	<0.87		50.0	41.4		ug/L		83	62 - 130	2	20
1,2-Dibromoethane	<0.36		50.0	49.4		ug/L		99	78 - 122	7	20
1,2-Dichlorobenzene	<0.27		50.0	49.3		ug/L		99	75 - 120	3	20
1,2-Dichloroethane	<0.28		50.0	51.1		ug/L		102	69 - 130	6	20
1,2-Dichloropropane	<0.20		50.0	48.8		ug/L		98	75 - 120	5	20
1,3,5-Trimethylbenzene	<0.18		50.0	48.7		ug/L		97	75 - 121	2	20
1,3-Dichlorobenzene	<0.15		50.0	48.5		ug/L		97	75 - 120	3	20
1,3-Dichloropropane	<0.13		50.0	49.7		ug/L		99	77 - 124	8	20
1,4-Dichlorobenzene	<0.15		50.0	47.8		ug/L		96	75 - 120	3	20
2,2-Dichloropropane	<0.32		50.0	43.7		ug/L		87	65 - 132	3	20
2-Chlorotoluene	<0.21		50.0	47.8		ug/L		96	75 - 120	2	20
4-Chlorotoluene	<0.20		50.0	47.9		ug/L		96	75 - 120	3	20
Benzene	<0.074		50.0	46.5		ug/L		93	75 - 120	5	20
Bromobenzene	<0.25		50.0	49.3		ug/L		99	75 - 120	1	20
Bromochloromethane	<0.40		50.0	48.6		ug/L		97	76 - 120	3	20

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: 500-75180-4 MSD

Client Sample ID: MP-14 (100-105)

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 232357

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Bromodichloromethane	<0.17		50.0	47.0		ug/L		94	77 - 121	5	20
Bromoform	<0.28		50.0	45.4		ug/L		91	68 - 126	9	20
Bromomethane	<0.31		50.0	52.0		ug/L		104	45 - 169	6	20
Carbon tetrachloride	<0.26		50.0	49.4		ug/L		99	70 - 130	7	20
Chlorobenzene	<0.14		50.0	49.0		ug/L		98	75 - 120	6	20
Chloroethane	<0.34		50.0	54.1		ug/L		108	58 - 147	8	20
Chloroform	<0.20		50.0	47.2		ug/L		94	76 - 120	5	20
Chloromethane	<0.18		50.0	53.8		ug/L		108	63 - 133	9	20
cis-1,2-Dichloroethene	<0.12		50.0	46.3		ug/L		93	75 - 120	3	20
cis-1,3-Dichloropropene	<0.18		50.0	46.6		ug/L		93	78 - 121	6	20
Dibromochloromethane	<0.32		50.0	46.7		ug/L		93	71 - 126	6	20
Dibromomethane	<0.33		50.0	49.8		ug/L		100	75 - 120	8	20
Dichlorodifluoromethane	<0.20		50.0	48.8		ug/L		98	41 - 146	5	20
Ethylbenzene	<0.13		50.0	48.2		ug/L		96	75 - 120	4	20
Hexachlorobutadiene	<0.26		50.0	52.3		ug/L		105	71 - 131	2	20
Isopropylbenzene	<0.14		50.0	48.6		ug/L		97	75 - 121	1	20
Methyl tert-butyl ether	<0.24		50.0	47.8		ug/L		96	75 - 130	7	20
Methylene Chloride	<0.68		50.0	47.4		ug/L		95	73 - 130	4	20
Naphthalene	<0.16		50.0	49.0		ug/L		98	69 - 135	2	20
n-Butylbenzene	<0.13		50.0	49.1		ug/L		98	75 - 121	2	20
N-Propylbenzene	<0.13		50.0	48.5		ug/L		97	75 - 120	2	20
p-Isopropyltoluene	<0.17		50.0	49.8		ug/L		100	75 - 121	1	20
sec-Butylbenzene	<0.15		50.0	49.0		ug/L		98	75 - 120	1	20
Styrene	<0.10		50.0	46.5		ug/L		93	75 - 120	6	20
tert-Butylbenzene	<0.14		50.0	48.8		ug/L		98	75 - 123	1	20
Tetrachloroethene	<0.17		50.0	49.4		ug/L		99	75 - 120	6	20
Toluene	<0.11		50.0	48.4		ug/L		97	75 - 120	5	20
trans-1,2-Dichloroethene	<0.25		50.0	46.5		ug/L		93	77 - 120	4	20
trans-1,3-Dichloropropene	<0.21		50.0	50.3		ug/L		101	74 - 123	7	20
Trichloroethene	<0.19		50.0	48.0		ug/L		96	75 - 120	5	20
Trichlorofluoromethane	<0.19		50.0	50.7		ug/L		101	71 - 130	2	20
Vinyl chloride	<0.10		50.0	49.2		ug/L		98	72 - 123	7	20
Xylenes, Total	<0.068		100	94.8		ug/L		95	75 - 120	5	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		75 - 125
4-Bromofluorobenzene (Surr)	89		75 - 120
Dibromofluoromethane	93		75 - 120
Toluene-d8 (Surr)	95		75 - 120

Lab Sample ID: MB 500-232445/6

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 232445

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			04/21/14 22:57	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/21/14 22:57	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/21/14 22:57	1

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: MB 500-232445/6

Matrix: Water

Analysis Batch: 232445

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			04/21/14 22:57	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/21/14 22:57	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/21/14 22:57	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/21/14 22:57	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/21/14 22:57	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/21/14 22:57	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/21/14 22:57	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/21/14 22:57	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/21/14 22:57	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/21/14 22:57	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/21/14 22:57	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/21/14 22:57	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/21/14 22:57	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/21/14 22:57	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/21/14 22:57	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/21/14 22:57	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/21/14 22:57	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/21/14 22:57	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/21/14 22:57	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/21/14 22:57	1
Benzene	<0.074		0.50	0.074	ug/L			04/21/14 22:57	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/21/14 22:57	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/21/14 22:57	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/21/14 22:57	1
Bromoform	<0.28		1.0	0.28	ug/L			04/21/14 22:57	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/21/14 22:57	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/21/14 22:57	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/21/14 22:57	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/21/14 22:57	1
Chloroform	<0.20		1.0	0.20	ug/L			04/21/14 22:57	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/21/14 22:57	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/21/14 22:57	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/21/14 22:57	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/21/14 22:57	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/21/14 22:57	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/21/14 22:57	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/21/14 22:57	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/21/14 22:57	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/21/14 22:57	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/21/14 22:57	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/21/14 22:57	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/21/14 22:57	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/21/14 22:57	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/21/14 22:57	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/21/14 22:57	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/21/14 22:57	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/21/14 22:57	1
Styrene	<0.10		1.0	0.10	ug/L			04/21/14 22:57	1

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: MB 500-232445/6

Matrix: Water

Analysis Batch: 232445

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/21/14 22:57	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/21/14 22:57	1
Toluene	<0.11		0.50	0.11	ug/L			04/21/14 22:57	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/21/14 22:57	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/21/14 22:57	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/21/14 22:57	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/21/14 22:57	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/21/14 22:57	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/21/14 22:57	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	101		75 - 125		04/21/14 22:57	1
4-Bromofluorobenzene (Surr)	95		75 - 120		04/21/14 22:57	1
Dibromofluoromethane	91		75 - 120		04/21/14 22:57	1
Toluene-d8 (Surr)	94		75 - 120		04/21/14 22:57	1

Lab Sample ID: LCS 500-232445/4

Matrix: Water

Analysis Batch: 232445

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	56.2		ug/L		112	75 - 122
1,1,1-Trichloroethane	50.0	48.8		ug/L		98	72 - 130
1,1,1,2-Tetrachloroethane	50.0	57.2		ug/L		114	72 - 130
1,1,2-Trichloroethane	50.0	55.3		ug/L		111	75 - 120
1,1-Dichloroethane	50.0	51.3		ug/L		103	75 - 120
1,1-Dichloroethene	50.0	46.0		ug/L		92	69 - 120
1,1-Dichloropropene	50.0	50.7		ug/L		101	75 - 130
1,2,3-Trichlorobenzene	50.0	51.8		ug/L		104	69 - 131
1,2,3-Trichloropropane	50.0	56.8		ug/L		114	65 - 132
1,2,4-Trichlorobenzene	50.0	51.9		ug/L		104	73 - 130
1,2,4-Trimethylbenzene	50.0	53.1		ug/L		106	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	51.0		ug/L		102	62 - 130
1,2-Dibromoethane	50.0	56.1		ug/L		112	78 - 122
1,2-Dichlorobenzene	50.0	55.6		ug/L		111	75 - 120
1,2-Dichloroethane	50.0	56.4		ug/L		113	69 - 130
1,2-Dichloropropane	50.0	53.5		ug/L		107	75 - 120
1,3,5-Trimethylbenzene	50.0	53.8		ug/L		108	75 - 121
1,3-Dichlorobenzene	50.0	54.7		ug/L		109	75 - 120
1,3-Dichloropropane	50.0	56.6		ug/L		113	77 - 124
1,4-Dichlorobenzene	50.0	53.8		ug/L		108	75 - 120
2,2-Dichloropropane	50.0	45.1		ug/L		90	65 - 132
2-Chlorotoluene	50.0	53.9		ug/L		108	75 - 120
4-Chlorotoluene	50.0	53.5		ug/L		107	75 - 120
Benzene	50.0	49.6		ug/L		99	75 - 120
Bromobenzene	50.0	56.2		ug/L		112	75 - 120
Bromochloromethane	50.0	52.7		ug/L		105	76 - 120
Bromodichloromethane	50.0	53.1		ug/L		106	77 - 121

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: LCS 500-232445/4

Matrix: Water

Analysis Batch: 232445

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	54.7		ug/L		109	45 - 169
Carbon tetrachloride	50.0	50.6		ug/L		101	70 - 130
Chlorobenzene	50.0	53.8		ug/L		108	75 - 120
Chloroethane	50.0	58.4		ug/L		117	58 - 147
Chloroform	50.0	51.4		ug/L		103	76 - 120
Chloromethane	50.0	56.8		ug/L		114	63 - 133
cis-1,2-Dichloroethene	50.0	50.6		ug/L		101	75 - 120
cis-1,3-Dichloropropene	50.0	52.3		ug/L		105	78 - 121
Dibromochloromethane	50.0	53.9		ug/L		108	71 - 126
Dibromomethane	50.0	55.2		ug/L		110	75 - 120
Dichlorodifluoromethane	50.0	51.2		ug/L		102	41 - 146
Ethylbenzene	50.0	52.1		ug/L		104	75 - 120
Hexachlorobutadiene	50.0	54.8		ug/L		110	71 - 131
Isopropylbenzene	50.0	54.2		ug/L		108	75 - 121
Methyl tert-butyl ether	50.0	52.2		ug/L		104	75 - 130
Methylene Chloride	50.0	50.1		ug/L		100	73 - 130
Naphthalene	50.0	53.2		ug/L		106	69 - 135
n-Butylbenzene	50.0	53.5		ug/L		107	75 - 121
N-Propylbenzene	50.0	53.9		ug/L		108	75 - 120
p-Isopropyltoluene	50.0	54.4		ug/L		109	75 - 121
sec-Butylbenzene	50.0	53.7		ug/L		107	75 - 120
Styrene	50.0	51.3		ug/L		103	75 - 120
tert-Butylbenzene	50.0	53.9		ug/L		108	75 - 123
Tetrachloroethene	50.0	51.5		ug/L		103	75 - 120
Toluene	50.0	52.2		ug/L		104	75 - 120
trans-1,2-Dichloroethene	50.0	49.5		ug/L		99	77 - 120
trans-1,3-Dichloropropene	50.0	58.0		ug/L		116	74 - 123
Trichloroethene	50.0	52.3		ug/L		105	75 - 120
Trichlorofluoromethane	50.0	52.7		ug/L		105	71 - 130
Vinyl chloride	50.0	52.0		ug/L		104	72 - 123
Xylenes, Total	100	103		ug/L		103	75 - 120

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

Lab Chronicle

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-75180-1

Date Collected: 04/14/14 00:00

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232357	04/20/14 11:33	JLH	TAL CHI

Client Sample ID: MP-14 (170-178)

Lab Sample ID: 500-75180-2

Date Collected: 04/14/14 14:50

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	232357	04/20/14 12:00	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	20	232357	04/20/14 12:28	JLH	TAL CHI

Client Sample ID: MP-14 (135-140)

Lab Sample ID: 500-75180-3

Date Collected: 04/14/14 15:30

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232357	04/20/14 12:56	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	10	232357	04/20/14 13:23	JLH	TAL CHI

Client Sample ID: MP-14 (100-105)

Lab Sample ID: 500-75180-4

Date Collected: 04/14/14 16:10

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232357	04/20/14 13:50	JLH	TAL CHI

Client Sample ID: MP-14 (70-75)

Lab Sample ID: 500-75180-5

Date Collected: 04/14/14 16:40

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232357	04/20/14 14:17	JLH	TAL CHI

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

Lab Sample ID: 500-75180-6

Date Collected: 04/15/14 16:00

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232357	04/20/14 14:44	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	10	232357	04/20/14 15:12	JLH	TAL CHI

Lab Chronicle

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: 500-75180-7

Date Collected: 04/15/14 15:40

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	232357	04/20/14 15:39	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	20	232357	04/20/14 16:06	JLH	TAL CHI

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

Lab Sample ID: 500-75180-8

Date Collected: 04/15/14 15:20

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	232357	04/20/14 16:33	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	50	232357	04/20/14 17:01	JLH	TAL CHI

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

Lab Sample ID: 500-75180-9

Date Collected: 04/15/14 15:00

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	232357	04/20/14 17:28	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	20	232357	04/20/14 17:55	JLH	TAL CHI

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

Lab Sample ID: 500-75180-10

Date Collected: 04/15/14 14:40

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232357	04/20/14 18:22	JLH	TAL CHI

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

Lab Sample ID: 500-75180-11

Date Collected: 04/15/14 17:15

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232357	04/20/14 18:49	JLH	TAL CHI

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

Lab Sample ID: 500-75180-12

Date Collected: 04/15/14 17:00

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232357	04/20/14 19:17	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	10	232357	04/20/14 19:44	JLH	TAL CHI

TestAmerica Chicago

Lab Chronicle

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

TestAmerica Job ID: 500-75180-1

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

Lab Sample ID: 500-75180-13

Date Collected: 04/15/14 16:45

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232445	04/22/14 00:47	BBS	TAL CHI

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

Lab Sample ID: 500-75180-14

Date Collected: 04/15/14 16:30

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232445	04/22/14 01:15	BBS	TAL CHI

Client Sample ID: MW-5S

Lab Sample ID: 500-75180-15

Date Collected: 04/15/14 11:47

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232445	04/22/14 01:42	BBS	TAL CHI

Client Sample ID: MW-5D

Lab Sample ID: 500-75180-16

Date Collected: 04/15/14 13:28

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232445	04/22/14 02:09	BBS	TAL CHI

Client Sample ID: MW-5D2

Lab Sample ID: 500-75180-17

Date Collected: 04/15/14 11:25

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	232445	04/22/14 02:36	BBS	TAL CHI
Total/NA	Analysis	8260B	DL	20	232445	04/22/14 03:03	BBS	TAL CHI

Client Sample ID: MW-20D

Lab Sample ID: 500-75180-18

Date Collected: 04/15/14 16:43

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	232445	04/22/14 03:31	BBS	TAL CHI
Total/NA	Analysis	8260B	DL	20	232445	04/22/14 03:58	BBS	TAL CHI

Lab Chronicle

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

TestAmerica Job ID: 500-75180-1

Client Sample ID: MW-20D2

Lab Sample ID: 500-75180-19

Date Collected: 04/15/14 15:25

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	232445	04/22/14 04:25	BBS	TAL CHI
Total/NA	Analysis	8260B	DL	50	232445	04/22/14 04:53	BBS	TAL CHI

Client Sample ID: MW-21D

Lab Sample ID: 500-75180-20

Date Collected: 04/15/14 15:02

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	232445	04/22/14 05:20	BBS	TAL CHI
Total/NA	Analysis	8260B	DL	50	232445	04/22/14 05:47	BBS	TAL CHI

Client Sample ID: MW-21D2

Lab Sample ID: 500-75180-21

Date Collected: 04/15/14 16:30

Matrix: Water

Date Received: 04/16/14 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	232445	04/22/14 06:15	BBS	TAL CHI
Total/NA	Analysis	8260B	DL	50	232445	04/22/14 06:42	BBS	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: 500-75180-1

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

1

2

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12

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14

15

ID#: _____

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order # 500-75180

Send Results to:
 Contact & Company Name: Tim Alessi ARCADIS
 Telephone: 414-276-7742
 Address: 1216 N. Jefferson St #400
 City: Milwaukee State: WI Zip: 53202
 Fax: 414-276-7603
 E-mail Address: timothy.alessi@arcadisus.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:
 SQ - Soil SE - Sediment NL - NAPL/Oil
 W - Water SL - Sludge SW - Sample Wipe
 T - Tissue A - Air Other: _____

Project Name/Location (City, State): Markison-Kipp (Markison, WI)
 Project #: W122308.DCB.00002
 Sampler's Printed Name: Nicole Duda
 Sampler's Signature: [Signature]

PARAMETER ANALYSIS & METHOD

VOCs
Metals Pb100

500-75180 COC



Sample ID	Collection		Type (✓)		Matrix	1	3	3	3	3	3	3	3	3	3	3	3	
	Date	Time	Comp	Grab														
1 Trip Blank	-	-	-	-	W	1												
2 MP-14 (170-178)	4/14/14	1450		✓	W	3												
3 MP-14 (135-140)	4/14/14	1530		✓	W	3												
4 MP-14 (100-105)	4/14/14	1610		✓	W	3												
5 MP-14 (70-75)	4/14/14	1640		✓	W	3												
6 MP-15 (88-92)	4/15/14	1600		✓	W	3												
7 MP-15 (100-105)	4/15/14	1510		✓	W	3												
8 MP-15 (120-125)	4/15/14	1520		✓	W	3												
9 MP-15 (142-146)	4/15/14	1500		✓	W	3												
10 MP-15 (177-187)	4/15/14	1440		✓	W	3												
11 MP-10 (80-84)	4/15/14	1715		✓	W	3												
12 MP-10 (106-110)	4/15/14	1700		✓	W	3												
13 MP-16 (140-144)	4/15/14	11045		✓	W	3												
14 MP-16 (175-179)	4/15/14	1630		✓	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: <u>Test America</u>	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: <u>Nicole Duda</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>80577526 @ 137 5NO</u>	Sample Receipt: _____	Firm: <u>ARCADIS</u>	Date/Time: <u>4/15/14 1800</u>	Firm/Courier: _____	Date/Time: _____	Firm/Courier: _____	Date/Time: _____	Firm: <u>TA-CH</u>	Date/Time: <u>4/16/14 0945</u>
Shipping Tracking #: <u>Standard</u>	Condition/Cooler Temp: <u>3.7</u>								

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-75180-1

Login Number: 75180

List Number: 1

Creator: Scott, Sherri L

List Source: TestAmerica Chicago

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	3.7
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: 500-75262-1
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:
4/22/2014 5:02:44 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: 500-75262-1

Job ID: 500-75262-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-75262-1

Comments

No additional comments.

Receipt

The samples were received on 4/17/2014 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.3° C.

Except: All 3 vials for sample 3 have ID of MP-14 (135-139), logged per COC.

GC/MS VOA

Method(s) 8260B: The following samplea were diluted due to the nature of the sample matrix: MW-3S (500-75262-15), MW-3S Quenched (500-75262-16). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: DUP-3 (500-75262-13), DUP-4 (500-75262-9), MP-13 (102-106) (500-75262-5), MP-13 (121-125) (500-75262-4), MP-13 (135-139) (500-75262-3), MP-13 (163-167) (500-75262-2), MP-13 (44-48) (500-75262-8), MP-13 (67-71) (500-75262-7), MP-13 (81-85) (500-75262-6), MW-3D2 (500-75262-10). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.



Detection Summary

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-75262-1

No Detections.

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

Lab Sample ID: 500-75262-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	180		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	110		1.0	0.38	ug/L	2		8260B	Total/NA
Vinyl chloride	0.56	J	1.0	0.20	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	870		20	3.4	ug/L	20		8260B	Total/NA

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

Lab Sample ID: 500-75262-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	370		10	1.2	ug/L	10		8260B	Total/NA
Trichloroethene	320		5.0	1.9	ug/L	10		8260B	Total/NA
Vinyl chloride	4.0	J	5.0	1.0	ug/L	10		8260B	Total/NA
Tetrachloroethene - DL	5200		100	17	ug/L	100		8260B	Total/NA

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

Lab Sample ID: 500-75262-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	720		20	2.4	ug/L	20		8260B	Total/NA
trans-1,2-Dichloroethene	10	J	20	5.0	ug/L	20		8260B	Total/NA
Trichloroethene	710		10	3.8	ug/L	20		8260B	Total/NA
Vinyl chloride	6.2	J	10	2.0	ug/L	20		8260B	Total/NA
Tetrachloroethene - DL	6700		200	34	ug/L	200		8260B	Total/NA

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

Lab Sample ID: 500-75262-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	770		5.0	0.60	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	9.8		5.0	1.3	ug/L	5		8260B	Total/NA
Trichloroethene	580		2.5	0.95	ug/L	5		8260B	Total/NA
Vinyl chloride	23		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 (81-85)

Lab Sample ID: 500-75262-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	39		10	2.5	ug/L	10		8260B	Total/NA
Trichloroethene	1100		5.0	1.9	ug/L	10		8260B	Total/NA
Vinyl chloride	87		5.0	1.0	ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene - DL	2200		100	12	ug/L	100		8260B	Total/NA
Tetrachloroethene - DL	7900		100	17	ug/L	100		8260B	Total/NA

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

Lab Sample ID: 500-75262-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
trans-1,2-Dichloroethene	23		5.0	1.3	ug/L	5		8260B	Total/NA
Trichloroethene	440		2.5	0.95	ug/L	5		8260B	Total/NA
Vinyl chloride	83		2.5	0.50	ug/L	5		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: 500-75262-1

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

Lab Sample ID: 500-75262-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene - DL	1300		50	6.0	ug/L	50		8260B	Total/NA
Tetrachloroethene - DL	1600		50	8.5	ug/L	50		8260B	Total/NA

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

Lab Sample ID: 500-75262-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	1.3	J	2.0	0.62	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	8.5		2.0	0.50	ug/L	2		8260B	Total/NA
Trichloroethene	300		1.0	0.38	ug/L	2		8260B	Total/NA
Vinyl chloride	14		1.0	0.20	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene - DL	450		20	2.4	ug/L	20		8260B	Total/NA
Tetrachloroethene - DL	750		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: DUP-4

Lab Sample ID: 500-75262-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2400		20	2.4	ug/L	20		8260B	Total/NA
trans-1,2-Dichloroethene	41		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	7800		200	34	ug/L	200		8260B	Total/NA

Client Sample ID: MW-3D2

Lab Sample ID: 500-75262-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	210		5.0	0.60	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	3.1	J	5.0	1.3	ug/L	5		8260B	Total/NA
Trichloroethene	120		2.5	0.95	ug/L	5		8260B	Total/NA
Tetrachloroethene - DL	1800		50	8.5	ug/L	50		8260B	Total/NA

Client Sample ID: MW-5D3

Lab Sample ID: 500-75262-11

No Detections.

Client Sample ID: MW-3D3

Lab Sample ID: 500-75262-12

No Detections.

Client Sample ID: DUP-3

Lab Sample ID: 500-75262-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	220		5.0	0.60	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	3.9	J	5.0	1.3	ug/L	5		8260B	Total/NA
Trichloroethene	130		2.5	0.95	ug/L	5		8260B	Total/NA
Tetrachloroethene - DL	1700		50	8.5	ug/L	50		8260B	Total/NA

Client Sample ID: MW-9D2

Lab Sample ID: 500-75262-14

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
Methyl tert-butyl ether	9.6		1.0	0.24	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: 500-75262-1

Client Sample ID: MW-9D2 (Continued)

Lab Sample ID: 500-75262-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	26		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	6.5		0.50	0.19	ug/L	1		8260B	Total/NA

Client Sample ID: MW-3S

Lab Sample ID: 500-75262-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	3.9	J	5.0	1.0	ug/L	5		8260B	Total/NA

Client Sample ID: MW-3S Quenched

Lab Sample ID: 500-75262-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	3.4	J	5.0	1.0	ug/L	5		8260B	Total/NA
Tetrachloroethene	630		5.0	0.85	ug/L	5		8260B	Total/NA
Trichloroethene	6.9		2.5	0.95	ug/L	5		8260B	Total/NA

Client Sample ID: MW-9D

Lab Sample ID: 500-75262-17

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: 500-75262-1

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: 500-75262-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-75262-1	Trip Blank	Water	04/16/14 00:00	04/17/14 09:30
500-75262-2	MP-13 (163-167)	Water	04/16/14 09:40	04/17/14 09:30
500-75262-3	MP-13 (135-139)	Water	04/16/14 10:00	04/17/14 09:30
500-75262-4	MP-13 (121-125)	Water	04/16/14 10:20	04/17/14 09:30
500-75262-5	MP-13 (102-106)	Water	04/16/14 10:40	04/17/14 09:30
500-75262-6	MP-13 (81-85)	Water	04/16/14 11:00	04/17/14 09:30
500-75262-7	MP-13 (67-71)	Water	04/16/14 11:20	04/17/14 09:30
500-75262-8	MP-13 (44-48)	Water	04/16/14 11:35	04/17/14 09:30
500-75262-9	DUP-4	Water	04/16/14 00:00	04/17/14 09:30
500-75262-10	MW-3D2	Water	04/16/14 16:10	04/17/14 09:30
500-75262-11	MW-5D3	Water	04/16/14 12:30	04/17/14 09:30
500-75262-12	MW-3D3	Water	04/16/14 16:05	04/17/14 09:30
500-75262-13	DUP-3	Water	04/16/14 16:10	04/17/14 09:30
500-75262-14	MW-9D2	Water	04/16/14 10:22	04/17/14 09:30
500-75262-15	MW-3S	Water	04/16/14 13:07	04/17/14 09:30
500-75262-16	MW-3S Quenched	Water	04/16/14 13:10	04/17/14 09:30
500-75262-17	MW-9D	Water	04/16/14 10:08	04/17/14 09:30

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-75262-1

Date Collected: 04/16/14 00:00

Matrix: Water

Date Received: 04/17/14 09:30

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			04/21/14 13:45	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/21/14 13:45	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/21/14 13:45	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/21/14 13:45	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/21/14 13:45	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/21/14 13:45	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/21/14 13:45	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/21/14 13:45	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/21/14 13:45	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/21/14 13:45	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/21/14 13:45	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/21/14 13:45	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/21/14 13:45	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/21/14 13:45	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/21/14 13:45	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/21/14 13:45	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/21/14 13:45	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/21/14 13:45	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/21/14 13:45	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/21/14 13:45	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/21/14 13:45	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/21/14 13:45	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/21/14 13:45	1
Benzene	<0.074		0.50	0.074	ug/L			04/21/14 13:45	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/21/14 13:45	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/21/14 13:45	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/21/14 13:45	1
Bromoform	<0.28		1.0	0.28	ug/L			04/21/14 13:45	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/21/14 13:45	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/21/14 13:45	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/21/14 13:45	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/21/14 13:45	1
Chloroform	<0.20		1.0	0.20	ug/L			04/21/14 13:45	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/21/14 13:45	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/21/14 13:45	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/21/14 13:45	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/21/14 13:45	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/21/14 13:45	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/21/14 13:45	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/21/14 13:45	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/21/14 13:45	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/21/14 13:45	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/21/14 13:45	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/21/14 13:45	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/21/14 13:45	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/21/14 13:45	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/21/14 13:45	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/21/14 13:45	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/21/14 13:45	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-75262-1

Date Collected: 04/16/14 00:00

Matrix: Water

Date Received: 04/17/14 09:30

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			04/21/14 13:45	1
Styrene	<0.10		1.0	0.10	ug/L			04/21/14 13:45	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/21/14 13:45	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/21/14 13:45	1
Toluene	<0.11		0.50	0.11	ug/L			04/21/14 13:45	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/21/14 13:45	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/21/14 13:45	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/21/14 13:45	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/21/14 13:45	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/21/14 13:45	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/21/14 13:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		75 - 125					04/21/14 13:45	1
4-Bromofluorobenzene (Surr)	97		75 - 120					04/21/14 13:45	1
Dibromofluoromethane	94		75 - 120					04/21/14 13:45	1
Toluene-d8 (Surr)	90		75 - 120					04/21/14 13:45	1

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

Lab Sample ID: 500-75262-2

Date Collected: 04/16/14 09:40

Matrix: Water

Date Received: 04/17/14 09:30

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			04/21/14 14:11	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			04/21/14 14:11	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			04/21/14 14:11	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			04/21/14 14:11	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			04/21/14 14:11	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			04/21/14 14:11	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			04/21/14 14:11	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			04/21/14 14:11	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			04/21/14 14:11	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			04/21/14 14:11	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			04/21/14 14:11	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			04/21/14 14:11	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			04/21/14 14:11	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			04/21/14 14:11	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			04/21/14 14:11	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			04/21/14 14:11	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			04/21/14 14:11	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/21/14 14:11	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			04/21/14 14:11	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/21/14 14:11	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			04/21/14 14:11	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			04/21/14 14:11	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			04/21/14 14:11	2
Benzene	<0.15		1.0	0.15	ug/L			04/21/14 14:11	2
Bromobenzene	<0.50		2.0	0.50	ug/L			04/21/14 14:11	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			04/21/14 14:11	2

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: 500-75262-2

Date Collected: 04/16/14 09:40

Matrix: Water

Date Received: 04/17/14 09:30

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			04/21/14 14:11	2
Bromoform	<0.56		2.0	0.56	ug/L			04/21/14 14:11	2
Bromomethane	<0.62		2.0	0.62	ug/L			04/21/14 14:11	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			04/21/14 14:11	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			04/21/14 14:11	2
Chloroethane	<0.68		2.0	0.68	ug/L			04/21/14 14:11	2
Chloroform	<0.40		2.0	0.40	ug/L			04/21/14 14:11	2
Chloromethane	<0.36		2.0	0.36	ug/L			04/21/14 14:11	2
cis-1,2-Dichloroethene	180		2.0	0.24	ug/L			04/21/14 14:11	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			04/21/14 14:11	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			04/21/14 14:11	2
Dibromomethane	<0.66		2.0	0.66	ug/L			04/21/14 14:11	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			04/21/14 14:11	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			04/21/14 14:11	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			04/21/14 14:11	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			04/21/14 14:11	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			04/21/14 14:11	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			04/21/14 14:11	2
Methylene Chloride	<1.4		10	1.4	ug/L			04/21/14 14:11	2
Naphthalene	<0.32		2.0	0.32	ug/L			04/21/14 14:11	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			04/21/14 14:11	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			04/21/14 14:11	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			04/21/14 14:11	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			04/21/14 14:11	2
Styrene	<0.20		2.0	0.20	ug/L			04/21/14 14:11	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			04/21/14 14:11	2
Toluene	<0.22		1.0	0.22	ug/L			04/21/14 14:11	2
trans-1,2-Dichloroethene	3.3		2.0	0.50	ug/L			04/21/14 14:11	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			04/21/14 14:11	2
Trichloroethene	110		1.0	0.38	ug/L			04/21/14 14:11	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			04/21/14 14:11	2
Vinyl chloride	0.56 J		1.0	0.20	ug/L			04/21/14 14:11	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			04/21/14 14:11	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 125		04/21/14 14:11	2
4-Bromofluorobenzene (Surr)	99		75 - 120		04/21/14 14:11	2
Dibromofluoromethane	95		75 - 120		04/21/14 14:11	2
Toluene-d8 (Surr)	88		75 - 120		04/21/14 14:11	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	870		20	3.4	ug/L			04/21/14 14:37	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 125		04/21/14 14:37	20
4-Bromofluorobenzene (Surr)	97		75 - 120		04/21/14 14:37	20
Dibromofluoromethane	95		75 - 120		04/21/14 14:37	20
Toluene-d8 (Surr)	91		75 - 120		04/21/14 14:37	20

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: 500-75262-3

Date Collected: 04/16/14 10:00

Matrix: Water

Date Received: 04/17/14 09:30

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			04/21/14 15:03	10
1,1,1-Trichloroethane	<2.0		10	2.0	ug/L			04/21/14 15:03	10
1,1,2,2-Tetrachloroethane	<2.3		10	2.3	ug/L			04/21/14 15:03	10
1,1,2-Trichloroethane	<2.8		10	2.8	ug/L			04/21/14 15:03	10
1,1-Dichloroethane	<1.9		10	1.9	ug/L			04/21/14 15:03	10
1,1-Dichloroethene	<3.1		10	3.1	ug/L			04/21/14 15:03	10
1,1-Dichloropropene	<3.4		10	3.4	ug/L			04/21/14 15:03	10
1,2,3-Trichlorobenzene	<2.4		10	2.4	ug/L			04/21/14 15:03	10
1,2,3-Trichloropropane	<4.5		10	4.5	ug/L			04/21/14 15:03	10
1,2,4-Trichlorobenzene	<3.1		10	3.1	ug/L			04/21/14 15:03	10
1,2,4-Trimethylbenzene	<1.4		10	1.4	ug/L			04/21/14 15:03	10
1,2-Dibromo-3-Chloropropane	<8.7		20	8.7	ug/L			04/21/14 15:03	10
1,2-Dibromoethane	<3.6		10	3.6	ug/L			04/21/14 15:03	10
1,2-Dichlorobenzene	<2.7		10	2.7	ug/L			04/21/14 15:03	10
1,2-Dichloroethane	<2.8		10	2.8	ug/L			04/21/14 15:03	10
1,2-Dichloropropane	<2.0		10	2.0	ug/L			04/21/14 15:03	10
1,3,5-Trimethylbenzene	<1.8		10	1.8	ug/L			04/21/14 15:03	10
1,3-Dichlorobenzene	<1.5		10	1.5	ug/L			04/21/14 15:03	10
1,3-Dichloropropane	<1.3		10	1.3	ug/L			04/21/14 15:03	10
1,4-Dichlorobenzene	<1.5		10	1.5	ug/L			04/21/14 15:03	10
2,2-Dichloropropane	<3.2		10	3.2	ug/L			04/21/14 15:03	10
2-Chlorotoluene	<2.1		10	2.1	ug/L			04/21/14 15:03	10
4-Chlorotoluene	<2.0		10	2.0	ug/L			04/21/14 15:03	10
Benzene	<0.74		5.0	0.74	ug/L			04/21/14 15:03	10
Bromobenzene	<2.5		10	2.5	ug/L			04/21/14 15:03	10
Bromochloromethane	<4.0		10	4.0	ug/L			04/21/14 15:03	10
Bromodichloromethane	<1.7		10	1.7	ug/L			04/21/14 15:03	10
Bromoform	<2.8		10	2.8	ug/L			04/21/14 15:03	10
Bromomethane	<3.1		10	3.1	ug/L			04/21/14 15:03	10
Carbon tetrachloride	<2.6		10	2.6	ug/L			04/21/14 15:03	10
Chlorobenzene	<1.4		10	1.4	ug/L			04/21/14 15:03	10
Chloroethane	<3.4		10	3.4	ug/L			04/21/14 15:03	10
Chloroform	<2.0		10	2.0	ug/L			04/21/14 15:03	10
Chloromethane	<1.8		10	1.8	ug/L			04/21/14 15:03	10
cis-1,2-Dichloroethene	370		10	1.2	ug/L			04/21/14 15:03	10
cis-1,3-Dichloropropene	<1.8		10	1.8	ug/L			04/21/14 15:03	10
Dibromochloromethane	<3.2		10	3.2	ug/L			04/21/14 15:03	10
Dibromomethane	<3.3		10	3.3	ug/L			04/21/14 15:03	10
Dichlorodifluoromethane	<2.0		10	2.0	ug/L			04/21/14 15:03	10
Ethylbenzene	<1.3		5.0	1.3	ug/L			04/21/14 15:03	10
Hexachlorobutadiene	<2.6		10	2.6	ug/L			04/21/14 15:03	10
Isopropyl ether	<1.5		10	1.5	ug/L			04/21/14 15:03	10
Isopropylbenzene	<1.4		10	1.4	ug/L			04/21/14 15:03	10
Methyl tert-butyl ether	<2.4		10	2.4	ug/L			04/21/14 15:03	10
Methylene Chloride	<6.8		50	6.8	ug/L			04/21/14 15:03	10
Naphthalene	<1.6		10	1.6	ug/L			04/21/14 15:03	10
n-Butylbenzene	<1.3		10	1.3	ug/L			04/21/14 15:03	10
N-Propylbenzene	<1.3		10	1.3	ug/L			04/21/14 15:03	10
p-Isopropyltoluene	<1.7		10	1.7	ug/L			04/21/14 15:03	10

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: 500-75262-3

Date Collected: 04/16/14 10:00

Matrix: Water

Date Received: 04/17/14 09:30

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			04/21/14 15:03	10
Styrene	<1.0		10	1.0	ug/L			04/21/14 15:03	10
tert-Butylbenzene	<1.4		10	1.4	ug/L			04/21/14 15:03	10
Toluene	<1.1		5.0	1.1	ug/L			04/21/14 15:03	10
trans-1,2-Dichloroethene	<2.5		10	2.5	ug/L			04/21/14 15:03	10
trans-1,3-Dichloropropene	<2.1		10	2.1	ug/L			04/21/14 15:03	10
Trichloroethene	320		5.0	1.9	ug/L			04/21/14 15:03	10
Trichlorofluoromethane	<1.9		10	1.9	ug/L			04/21/14 15:03	10
Vinyl chloride	4.0 J		5.0	1.0	ug/L			04/21/14 15:03	10
Xylenes, Total	<0.68		10	0.68	ug/L			04/21/14 15:03	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 125		04/21/14 15:03	10
4-Bromofluorobenzene (Surr)	101		75 - 120		04/21/14 15:03	10
Dibromofluoromethane	97		75 - 120		04/21/14 15:03	10
Toluene-d8 (Surr)	87		75 - 120		04/21/14 15:03	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	5200		100	17	ug/L			04/21/14 15:28	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		75 - 125		04/21/14 15:28	100
4-Bromofluorobenzene (Surr)	96		75 - 120		04/21/14 15:28	100
Dibromofluoromethane	95		75 - 120		04/21/14 15:28	100
Toluene-d8 (Surr)	88		75 - 120		04/21/14 15:28	100

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

Lab Sample ID: 500-75262-4

Date Collected: 04/16/14 10:20

Matrix: Water

Date Received: 04/17/14 09:30

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			04/21/14 15:54	20
1,1,1-Trichloroethane	<4.0		20	4.0	ug/L			04/21/14 15:54	20
1,1,1,2-Tetrachloroethane	<4.6		20	4.6	ug/L			04/21/14 15:54	20
1,1,2-Trichloroethane	<5.6		20	5.6	ug/L			04/21/14 15:54	20
1,1-Dichloroethane	<3.8		20	3.8	ug/L			04/21/14 15:54	20
1,1-Dichloroethene	<6.2		20	6.2	ug/L			04/21/14 15:54	20
1,1-Dichloropropene	<6.8		20	6.8	ug/L			04/21/14 15:54	20
1,2,3-Trichlorobenzene	<4.8		20	4.8	ug/L			04/21/14 15:54	20
1,2,3-Trichloropropane	<9.0		20	9.0	ug/L			04/21/14 15:54	20
1,2,4-Trichlorobenzene	<6.2		20	6.2	ug/L			04/21/14 15:54	20
1,2,4-Trimethylbenzene	<2.8		20	2.8	ug/L			04/21/14 15:54	20
1,2-Dibromo-3-Chloropropane	<17		40	17	ug/L			04/21/14 15:54	20
1,2-Dibromoethane	<7.2		20	7.2	ug/L			04/21/14 15:54	20
1,2-Dichlorobenzene	<5.4		20	5.4	ug/L			04/21/14 15:54	20
1,2-Dichloroethane	<5.6		20	5.6	ug/L			04/21/14 15:54	20
1,2-Dichloropropane	<4.0		20	4.0	ug/L			04/21/14 15:54	20
1,3,5-Trimethylbenzene	<3.6		20	3.6	ug/L			04/21/14 15:54	20

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: 500-75262-4

Date Collected: 04/16/14 10:20

Matrix: Water

Date Received: 04/17/14 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<3.0		20	3.0	ug/L			04/21/14 15:54	20
1,3-Dichloropropane	<2.6		20	2.6	ug/L			04/21/14 15:54	20
1,4-Dichlorobenzene	<3.0		20	3.0	ug/L			04/21/14 15:54	20
2,2-Dichloropropane	<6.4		20	6.4	ug/L			04/21/14 15:54	20
2-Chlorotoluene	<4.2		20	4.2	ug/L			04/21/14 15:54	20
4-Chlorotoluene	<4.0		20	4.0	ug/L			04/21/14 15:54	20
Benzene	<1.5		10	1.5	ug/L			04/21/14 15:54	20
Bromobenzene	<5.0		20	5.0	ug/L			04/21/14 15:54	20
Bromochloromethane	<8.0		20	8.0	ug/L			04/21/14 15:54	20
Bromodichloromethane	<3.4		20	3.4	ug/L			04/21/14 15:54	20
Bromoform	<5.6		20	5.6	ug/L			04/21/14 15:54	20
Bromomethane	<6.2		20	6.2	ug/L			04/21/14 15:54	20
Carbon tetrachloride	<5.2		20	5.2	ug/L			04/21/14 15:54	20
Chlorobenzene	<2.8		20	2.8	ug/L			04/21/14 15:54	20
Chloroethane	<6.8		20	6.8	ug/L			04/21/14 15:54	20
Chloroform	<4.0		20	4.0	ug/L			04/21/14 15:54	20
Chloromethane	<3.6		20	3.6	ug/L			04/21/14 15:54	20
cis-1,2-Dichloroethene	720		20	2.4	ug/L			04/21/14 15:54	20
cis-1,3-Dichloropropene	<3.6		20	3.6	ug/L			04/21/14 15:54	20
Dibromochloromethane	<6.4		20	6.4	ug/L			04/21/14 15:54	20
Dibromomethane	<6.6		20	6.6	ug/L			04/21/14 15:54	20
Dichlorodifluoromethane	<4.0		20	4.0	ug/L			04/21/14 15:54	20
Ethylbenzene	<2.6		10	2.6	ug/L			04/21/14 15:54	20
Hexachlorobutadiene	<5.2		20	5.2	ug/L			04/21/14 15:54	20
Isopropyl ether	<3.0		20	3.0	ug/L			04/21/14 15:54	20
Isopropylbenzene	<2.8		20	2.8	ug/L			04/21/14 15:54	20
Methyl tert-butyl ether	<4.8		20	4.8	ug/L			04/21/14 15:54	20
Methylene Chloride	<14		100	14	ug/L			04/21/14 15:54	20
Naphthalene	<3.2		20	3.2	ug/L			04/21/14 15:54	20
n-Butylbenzene	<2.6		20	2.6	ug/L			04/21/14 15:54	20
N-Propylbenzene	<2.6		20	2.6	ug/L			04/21/14 15:54	20
p-Isopropyltoluene	<3.4		20	3.4	ug/L			04/21/14 15:54	20
sec-Butylbenzene	<3.0		20	3.0	ug/L			04/21/14 15:54	20
Styrene	<2.0		20	2.0	ug/L			04/21/14 15:54	20
tert-Butylbenzene	<2.8		20	2.8	ug/L			04/21/14 15:54	20
Toluene	<2.2		10	2.2	ug/L			04/21/14 15:54	20
trans-1,2-Dichloroethene	10 J		20	5.0	ug/L			04/21/14 15:54	20
trans-1,3-Dichloropropene	<4.2		20	4.2	ug/L			04/21/14 15:54	20
Trichloroethene	710		10	3.8	ug/L			04/21/14 15:54	20
Trichlorofluoromethane	<3.8		20	3.8	ug/L			04/21/14 15:54	20
Vinyl chloride	6.2 J		10	2.0	ug/L			04/21/14 15:54	20
Xylenes, Total	<1.4		20	1.4	ug/L			04/21/14 15:54	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 125		04/21/14 15:54	20
4-Bromofluorobenzene (Surr)	100		75 - 120		04/21/14 15:54	20
Dibromofluoromethane	96		75 - 120		04/21/14 15:54	20
Toluene-d8 (Surr)	90		75 - 120		04/21/14 15:54	20

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: 500-75262-4

Date Collected: 04/16/14 10:20

Matrix: Water

Date Received: 04/17/14 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	6700		200	34	ug/L			04/21/14 16:19	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 125					04/21/14 16:19	200
4-Bromofluorobenzene (Surr)	97		75 - 120					04/21/14 16:19	200
Dibromofluoromethane	96		75 - 120					04/21/14 16:19	200
Toluene-d8 (Surr)	90		75 - 120					04/21/14 16:19	200

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

Lab Sample ID: 500-75262-5

Date Collected: 04/16/14 10:40

Matrix: Water

Date Received: 04/17/14 09:30

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			04/21/14 16:45	5
1,1,1-Trichloroethane	<1.0		5.0	1.0	ug/L			04/21/14 16:45	5
1,1,2,2-Tetrachloroethane	<1.2		5.0	1.2	ug/L			04/21/14 16:45	5
1,1,2-Trichloroethane	<1.4		5.0	1.4	ug/L			04/21/14 16:45	5
1,1-Dichloroethane	<0.95		5.0	0.95	ug/L			04/21/14 16:45	5
1,1-Dichloroethene	<1.6		5.0	1.6	ug/L			04/21/14 16:45	5
1,1-Dichloropropene	<1.7		5.0	1.7	ug/L			04/21/14 16:45	5
1,2,3-Trichlorobenzene	<1.2		5.0	1.2	ug/L			04/21/14 16:45	5
1,2,3-Trichloropropane	<2.3		5.0	2.3	ug/L			04/21/14 16:45	5
1,2,4-Trichlorobenzene	<1.6		5.0	1.6	ug/L			04/21/14 16:45	5
1,2,4-Trimethylbenzene	<0.70		5.0	0.70	ug/L			04/21/14 16:45	5
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/L			04/21/14 16:45	5
1,2-Dibromoethane	<1.8		5.0	1.8	ug/L			04/21/14 16:45	5
1,2-Dichlorobenzene	<1.4		5.0	1.4	ug/L			04/21/14 16:45	5
1,2-Dichloroethane	<1.4		5.0	1.4	ug/L			04/21/14 16:45	5
1,2-Dichloropropane	<1.0		5.0	1.0	ug/L			04/21/14 16:45	5
1,3,5-Trimethylbenzene	<0.90		5.0	0.90	ug/L			04/21/14 16:45	5
1,3-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/21/14 16:45	5
1,3-Dichloropropane	<0.65		5.0	0.65	ug/L			04/21/14 16:45	5
1,4-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/21/14 16:45	5
2,2-Dichloropropane	<1.6		5.0	1.6	ug/L			04/21/14 16:45	5
2-Chlorotoluene	<1.1		5.0	1.1	ug/L			04/21/14 16:45	5
4-Chlorotoluene	<1.0		5.0	1.0	ug/L			04/21/14 16:45	5
Benzene	<0.37		2.5	0.37	ug/L			04/21/14 16:45	5
Bromobenzene	<1.3		5.0	1.3	ug/L			04/21/14 16:45	5
Bromochloromethane	<2.0		5.0	2.0	ug/L			04/21/14 16:45	5
Bromodichloromethane	<0.85		5.0	0.85	ug/L			04/21/14 16:45	5
Bromoform	<1.4		5.0	1.4	ug/L			04/21/14 16:45	5
Bromomethane	<1.6		5.0	1.6	ug/L			04/21/14 16:45	5
Carbon tetrachloride	<1.3		5.0	1.3	ug/L			04/21/14 16:45	5
Chlorobenzene	<0.70		5.0	0.70	ug/L			04/21/14 16:45	5
Chloroethane	<1.7		5.0	1.7	ug/L			04/21/14 16:45	5
Chloroform	<1.0		5.0	1.0	ug/L			04/21/14 16:45	5
Chloromethane	<0.90		5.0	0.90	ug/L			04/21/14 16:45	5
cis-1,2-Dichloroethene	770		5.0	0.60	ug/L			04/21/14 16:45	5
cis-1,3-Dichloropropene	<0.90		5.0	0.90	ug/L			04/21/14 16:45	5

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: 500-75262-5

Date Collected: 04/16/14 10:40

Matrix: Water

Date Received: 04/17/14 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<1.6		5.0	1.6	ug/L			04/21/14 16:45	5
Dibromomethane	<1.7		5.0	1.7	ug/L			04/21/14 16:45	5
Dichlorodifluoromethane	<1.0		5.0	1.0	ug/L			04/21/14 16:45	5
Ethylbenzene	<0.65		2.5	0.65	ug/L			04/21/14 16:45	5
Hexachlorobutadiene	<1.3		5.0	1.3	ug/L			04/21/14 16:45	5
Isopropyl ether	<0.75		5.0	0.75	ug/L			04/21/14 16:45	5
Isopropylbenzene	<0.70		5.0	0.70	ug/L			04/21/14 16:45	5
Methyl tert-butyl ether	<1.2		5.0	1.2	ug/L			04/21/14 16:45	5
Methylene Chloride	<3.4		25	3.4	ug/L			04/21/14 16:45	5
Naphthalene	<0.80		5.0	0.80	ug/L			04/21/14 16:45	5
n-Butylbenzene	<0.65		5.0	0.65	ug/L			04/21/14 16:45	5
N-Propylbenzene	<0.65		5.0	0.65	ug/L			04/21/14 16:45	5
p-Isopropyltoluene	<0.85		5.0	0.85	ug/L			04/21/14 16:45	5
sec-Butylbenzene	<0.75		5.0	0.75	ug/L			04/21/14 16:45	5
Styrene	<0.50		5.0	0.50	ug/L			04/21/14 16:45	5
tert-Butylbenzene	<0.70		5.0	0.70	ug/L			04/21/14 16:45	5
Toluene	<0.55		2.5	0.55	ug/L			04/21/14 16:45	5
trans-1,2-Dichloroethene	9.8		5.0	1.3	ug/L			04/21/14 16:45	5
trans-1,3-Dichloropropene	<1.1		5.0	1.1	ug/L			04/21/14 16:45	5
Trichloroethene	580		2.5	0.95	ug/L			04/21/14 16:45	5
Trichlorofluoromethane	<0.95		5.0	0.95	ug/L			04/21/14 16:45	5
Vinyl chloride	23		2.5	0.50	ug/L			04/21/14 16:45	5
Xylenes, Total	<0.34		5.0	0.34	ug/L			04/21/14 16:45	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		75 - 125		04/21/14 16:45	5
4-Bromofluorobenzene (Surr)	100		75 - 120		04/21/14 16:45	5
Dibromofluoromethane	95		75 - 120		04/21/14 16:45	5
Toluene-d8 (Surr)	88		75 - 120		04/21/14 16:45	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			04/21/14 17:10	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		75 - 125		04/21/14 17:10	50
4-Bromofluorobenzene (Surr)	99		75 - 120		04/21/14 17:10	50
Dibromofluoromethane	97		75 - 120		04/21/14 17:10	50
Toluene-d8 (Surr)	89		75 - 120		04/21/14 17:10	50

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

Lab Sample ID: 500-75262-6

Date Collected: 04/16/14 11:00

Matrix: Water

Date Received: 04/17/14 09:30

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			04/21/14 17:36	10
1,1,1-Trichloroethane	<2.0		10	2.0	ug/L			04/21/14 17:36	10
1,1,2,2-Tetrachloroethane	<2.3		10	2.3	ug/L			04/21/14 17:36	10
1,1,2-Trichloroethane	<2.8		10	2.8	ug/L			04/21/14 17:36	10

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: 500-75262-6

Date Collected: 04/16/14 11:00

Matrix: Water

Date Received: 04/17/14 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.9		10	1.9	ug/L			04/21/14 17:36	10
1,1-Dichloroethene	<3.1		10	3.1	ug/L			04/21/14 17:36	10
1,1-Dichloropropene	<3.4		10	3.4	ug/L			04/21/14 17:36	10
1,2,3-Trichlorobenzene	<2.4		10	2.4	ug/L			04/21/14 17:36	10
1,2,3-Trichloropropane	<4.5		10	4.5	ug/L			04/21/14 17:36	10
1,2,4-Trichlorobenzene	<3.1		10	3.1	ug/L			04/21/14 17:36	10
1,2,4-Trimethylbenzene	<1.4		10	1.4	ug/L			04/21/14 17:36	10
1,2-Dibromo-3-Chloropropane	<8.7		20	8.7	ug/L			04/21/14 17:36	10
1,2-Dibromoethane	<3.6		10	3.6	ug/L			04/21/14 17:36	10
1,2-Dichlorobenzene	<2.7		10	2.7	ug/L			04/21/14 17:36	10
1,2-Dichloroethane	<2.8		10	2.8	ug/L			04/21/14 17:36	10
1,2-Dichloropropane	<2.0		10	2.0	ug/L			04/21/14 17:36	10
1,3,5-Trimethylbenzene	<1.8		10	1.8	ug/L			04/21/14 17:36	10
1,3-Dichlorobenzene	<1.5		10	1.5	ug/L			04/21/14 17:36	10
1,3-Dichloropropane	<1.3		10	1.3	ug/L			04/21/14 17:36	10
1,4-Dichlorobenzene	<1.5		10	1.5	ug/L			04/21/14 17:36	10
2,2-Dichloropropane	<3.2		10	3.2	ug/L			04/21/14 17:36	10
2-Chlorotoluene	<2.1		10	2.1	ug/L			04/21/14 17:36	10
4-Chlorotoluene	<2.0		10	2.0	ug/L			04/21/14 17:36	10
Benzene	<0.74		5.0	0.74	ug/L			04/21/14 17:36	10
Bromobenzene	<2.5		10	2.5	ug/L			04/21/14 17:36	10
Bromochloromethane	<4.0		10	4.0	ug/L			04/21/14 17:36	10
Bromodichloromethane	<1.7		10	1.7	ug/L			04/21/14 17:36	10
Bromoform	<2.8		10	2.8	ug/L			04/21/14 17:36	10
Bromomethane	<3.1		10	3.1	ug/L			04/21/14 17:36	10
Carbon tetrachloride	<2.6		10	2.6	ug/L			04/21/14 17:36	10
Chlorobenzene	<1.4		10	1.4	ug/L			04/21/14 17:36	10
Chloroethane	<3.4		10	3.4	ug/L			04/21/14 17:36	10
Chloroform	<2.0		10	2.0	ug/L			04/21/14 17:36	10
Chloromethane	<1.8		10	1.8	ug/L			04/21/14 17:36	10
cis-1,3-Dichloropropene	<1.8		10	1.8	ug/L			04/21/14 17:36	10
Dibromochloromethane	<3.2		10	3.2	ug/L			04/21/14 17:36	10
Dibromomethane	<3.3		10	3.3	ug/L			04/21/14 17:36	10
Dichlorodifluoromethane	<2.0		10	2.0	ug/L			04/21/14 17:36	10
Ethylbenzene	<1.3		5.0	1.3	ug/L			04/21/14 17:36	10
Hexachlorobutadiene	<2.6		10	2.6	ug/L			04/21/14 17:36	10
Isopropyl ether	<1.5		10	1.5	ug/L			04/21/14 17:36	10
Isopropylbenzene	<1.4		10	1.4	ug/L			04/21/14 17:36	10
Methyl tert-butyl ether	<2.4		10	2.4	ug/L			04/21/14 17:36	10
Methylene Chloride	<6.8		50	6.8	ug/L			04/21/14 17:36	10
Naphthalene	<1.6		10	1.6	ug/L			04/21/14 17:36	10
n-Butylbenzene	<1.3		10	1.3	ug/L			04/21/14 17:36	10
N-Propylbenzene	<1.3		10	1.3	ug/L			04/21/14 17:36	10
p-Isopropyltoluene	<1.7		10	1.7	ug/L			04/21/14 17:36	10
sec-Butylbenzene	<1.5		10	1.5	ug/L			04/21/14 17:36	10
Styrene	<1.0		10	1.0	ug/L			04/21/14 17:36	10
tert-Butylbenzene	<1.4		10	1.4	ug/L			04/21/14 17:36	10
Toluene	<1.1		5.0	1.1	ug/L			04/21/14 17:36	10
trans-1,2-Dichloroethene	39		10	2.5	ug/L			04/21/14 17:36	10

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: 500-75262-6

Date Collected: 04/16/14 11:00

Matrix: Water

Date Received: 04/17/14 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<2.1		10	2.1	ug/L			04/21/14 17:36	10
Trichloroethene	1100		5.0	1.9	ug/L			04/21/14 17:36	10
Trichlorofluoromethane	<1.9		10	1.9	ug/L			04/21/14 17:36	10
Vinyl chloride	87		5.0	1.0	ug/L			04/21/14 17:36	10
Xylenes, Total	<0.68		10	0.68	ug/L			04/21/14 17:36	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 125		04/21/14 17:36	10
4-Bromofluorobenzene (Surr)	97		75 - 120		04/21/14 17:36	10
Dibromofluoromethane	98		75 - 120		04/21/14 17:36	10
Toluene-d8 (Surr)	89		75 - 120		04/21/14 17:36	10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	2200		100	12	ug/L			04/21/14 18:01	100
Tetrachloroethene	7900		100	17	ug/L			04/21/14 18:01	100

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 125		04/21/14 18:01	100
4-Bromofluorobenzene (Surr)	97		75 - 120		04/21/14 18:01	100
Dibromofluoromethane	97		75 - 120		04/21/14 18:01	100
Toluene-d8 (Surr)	89		75 - 120		04/21/14 18:01	100

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

Lab Sample ID: 500-75262-7

Date Collected: 04/16/14 11:20

Matrix: Water

Date Received: 04/17/14 09:30

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			04/21/14 23:37	5
1,1,1-Trichloroethane	<1.0		5.0	1.0	ug/L			04/21/14 23:37	5
1,1,2,2-Tetrachloroethane	<1.2		5.0	1.2	ug/L			04/21/14 23:37	5
1,1,2-Trichloroethane	<1.4		5.0	1.4	ug/L			04/21/14 23:37	5
1,1-Dichloroethane	<0.95		5.0	0.95	ug/L			04/21/14 23:37	5
1,1-Dichloroethene	<1.6		5.0	1.6	ug/L			04/21/14 23:37	5
1,1-Dichloropropene	<1.7		5.0	1.7	ug/L			04/21/14 23:37	5
1,2,3-Trichlorobenzene	<1.2		5.0	1.2	ug/L			04/21/14 23:37	5
1,2,3-Trichloropropane	<2.3		5.0	2.3	ug/L			04/21/14 23:37	5
1,2,4-Trichlorobenzene	<1.6		5.0	1.6	ug/L			04/21/14 23:37	5
1,2,4-Trimethylbenzene	<0.70		5.0	0.70	ug/L			04/21/14 23:37	5
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/L			04/21/14 23:37	5
1,2-Dibromoethane	<1.8		5.0	1.8	ug/L			04/21/14 23:37	5
1,2-Dichlorobenzene	<1.4		5.0	1.4	ug/L			04/21/14 23:37	5
1,2-Dichloroethane	<1.4		5.0	1.4	ug/L			04/21/14 23:37	5
1,2-Dichloropropane	<1.0		5.0	1.0	ug/L			04/21/14 23:37	5
1,3,5-Trimethylbenzene	<0.90		5.0	0.90	ug/L			04/21/14 23:37	5
1,3-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/21/14 23:37	5
1,3-Dichloropropane	<0.65		5.0	0.65	ug/L			04/21/14 23:37	5
1,4-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/21/14 23:37	5
2,2-Dichloropropane	<1.6		5.0	1.6	ug/L			04/21/14 23:37	5

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: 500-75262-7

Date Collected: 04/16/14 11:20

Matrix: Water

Date Received: 04/17/14 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorotoluene	<1.1		5.0	1.1	ug/L			04/21/14 23:37	5
4-Chlorotoluene	<1.0		5.0	1.0	ug/L			04/21/14 23:37	5
Benzene	<0.37		2.5	0.37	ug/L			04/21/14 23:37	5
Bromobenzene	<1.3		5.0	1.3	ug/L			04/21/14 23:37	5
Bromochloromethane	<2.0		5.0	2.0	ug/L			04/21/14 23:37	5
Bromodichloromethane	<0.85		5.0	0.85	ug/L			04/21/14 23:37	5
Bromoform	<1.4		5.0	1.4	ug/L			04/21/14 23:37	5
Bromomethane	<1.6		5.0	1.6	ug/L			04/21/14 23:37	5
Carbon tetrachloride	<1.3		5.0	1.3	ug/L			04/21/14 23:37	5
Chlorobenzene	<0.70		5.0	0.70	ug/L			04/21/14 23:37	5
Chloroethane	<1.7		5.0	1.7	ug/L			04/21/14 23:37	5
Chloroform	<1.0		5.0	1.0	ug/L			04/21/14 23:37	5
Chloromethane	<0.90		5.0	0.90	ug/L			04/21/14 23:37	5
cis-1,3-Dichloropropene	<0.90		5.0	0.90	ug/L			04/21/14 23:37	5
Dibromochloromethane	<1.6		5.0	1.6	ug/L			04/21/14 23:37	5
Dibromomethane	<1.7		5.0	1.7	ug/L			04/21/14 23:37	5
Dichlorodifluoromethane	<1.0		5.0	1.0	ug/L			04/21/14 23:37	5
Ethylbenzene	<0.65		2.5	0.65	ug/L			04/21/14 23:37	5
Hexachlorobutadiene	<1.3		5.0	1.3	ug/L			04/21/14 23:37	5
Isopropyl ether	<0.75		5.0	0.75	ug/L			04/21/14 23:37	5
Isopropylbenzene	<0.70		5.0	0.70	ug/L			04/21/14 23:37	5
Methyl tert-butyl ether	<1.2		5.0	1.2	ug/L			04/21/14 23:37	5
Methylene Chloride	<3.4		25	3.4	ug/L			04/21/14 23:37	5
Naphthalene	<0.80		5.0	0.80	ug/L			04/21/14 23:37	5
n-Butylbenzene	<0.65		5.0	0.65	ug/L			04/21/14 23:37	5
N-Propylbenzene	<0.65		5.0	0.65	ug/L			04/21/14 23:37	5
p-Isopropyltoluene	<0.85		5.0	0.85	ug/L			04/21/14 23:37	5
sec-Butylbenzene	<0.75		5.0	0.75	ug/L			04/21/14 23:37	5
Styrene	<0.50		5.0	0.50	ug/L			04/21/14 23:37	5
tert-Butylbenzene	<0.70		5.0	0.70	ug/L			04/21/14 23:37	5
Toluene	<0.55		2.5	0.55	ug/L			04/21/14 23:37	5
trans-1,2-Dichloroethene	23		5.0	1.3	ug/L			04/21/14 23:37	5
trans-1,3-Dichloropropene	<1.1		5.0	1.1	ug/L			04/21/14 23:37	5
Trichloroethene	440		2.5	0.95	ug/L			04/21/14 23:37	5
Trichlorofluoromethane	<0.95		5.0	0.95	ug/L			04/21/14 23:37	5
Vinyl chloride	83		2.5	0.50	ug/L			04/21/14 23:37	5
Xylenes, Total	<0.34		5.0	0.34	ug/L			04/21/14 23:37	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		75 - 125		04/21/14 23:37	5
4-Bromofluorobenzene (Surr)	99		75 - 120		04/21/14 23:37	5
Dibromofluoromethane	98		75 - 120		04/21/14 23:37	5
Toluene-d8 (Surr)	90		75 - 120		04/21/14 23:37	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	1300		50	6.0	ug/L			04/22/14 00:02	50
Tetrachloroethene	1600		50	8.5	ug/L			04/22/14 00:02	50

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: 500-75262-7

Date Collected: 04/16/14 11:20

Matrix: Water

Date Received: 04/17/14 09:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 125		04/22/14 00:02	50
4-Bromofluorobenzene (Surr)	100		75 - 120		04/22/14 00:02	50
Dibromofluoromethane	99		75 - 120		04/22/14 00:02	50
Toluene-d8 (Surr)	88		75 - 120		04/22/14 00:02	50

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

Lab Sample ID: 500-75262-8

Date Collected: 04/16/14 11:35

Matrix: Water

Date Received: 04/17/14 09:30

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			04/22/14 00:27	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			04/22/14 00:27	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			04/22/14 00:27	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			04/22/14 00:27	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			04/22/14 00:27	2
1,1-Dichloroethene	1.3	J	2.0	0.62	ug/L			04/22/14 00:27	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			04/22/14 00:27	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			04/22/14 00:27	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			04/22/14 00:27	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			04/22/14 00:27	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			04/22/14 00:27	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			04/22/14 00:27	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			04/22/14 00:27	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			04/22/14 00:27	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			04/22/14 00:27	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			04/22/14 00:27	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			04/22/14 00:27	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/22/14 00:27	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			04/22/14 00:27	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/22/14 00:27	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			04/22/14 00:27	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			04/22/14 00:27	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			04/22/14 00:27	2
Benzene	<0.15		1.0	0.15	ug/L			04/22/14 00:27	2
Bromobenzene	<0.50		2.0	0.50	ug/L			04/22/14 00:27	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			04/22/14 00:27	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			04/22/14 00:27	2
Bromoform	<0.56		2.0	0.56	ug/L			04/22/14 00:27	2
Bromomethane	<0.62		2.0	0.62	ug/L			04/22/14 00:27	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			04/22/14 00:27	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			04/22/14 00:27	2
Chloroethane	<0.68		2.0	0.68	ug/L			04/22/14 00:27	2
Chloroform	<0.40		2.0	0.40	ug/L			04/22/14 00:27	2
Chloromethane	<0.36		2.0	0.36	ug/L			04/22/14 00:27	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			04/22/14 00:27	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			04/22/14 00:27	2
Dibromomethane	<0.66		2.0	0.66	ug/L			04/22/14 00:27	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			04/22/14 00:27	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			04/22/14 00:27	2

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: 500-75262-8

Date Collected: 04/16/14 11:35

Matrix: Water

Date Received: 04/17/14 09:30

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			04/22/14 00:27	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			04/22/14 00:27	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			04/22/14 00:27	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			04/22/14 00:27	2
Methylene Chloride	<1.4		10	1.4	ug/L			04/22/14 00:27	2
Naphthalene	<0.32		2.0	0.32	ug/L			04/22/14 00:27	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			04/22/14 00:27	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			04/22/14 00:27	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			04/22/14 00:27	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			04/22/14 00:27	2
Styrene	<0.20		2.0	0.20	ug/L			04/22/14 00:27	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			04/22/14 00:27	2
Toluene	<0.22		1.0	0.22	ug/L			04/22/14 00:27	2
trans-1,2-Dichloroethene	8.5		2.0	0.50	ug/L			04/22/14 00:27	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			04/22/14 00:27	2
Trichloroethene	300		1.0	0.38	ug/L			04/22/14 00:27	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			04/22/14 00:27	2
Vinyl chloride	14		1.0	0.20	ug/L			04/22/14 00:27	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			04/22/14 00:27	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 125		04/22/14 00:27	2
4-Bromofluorobenzene (Surr)	99		75 - 120		04/22/14 00:27	2
Dibromofluoromethane	96		75 - 120		04/22/14 00:27	2
Toluene-d8 (Surr)	91		75 - 120		04/22/14 00:27	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	450		20	2.4	ug/L			04/22/14 00:53	20
Tetrachloroethene	750		20	3.4	ug/L			04/22/14 00:53	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 125		04/22/14 00:53	20
4-Bromofluorobenzene (Surr)	100		75 - 120		04/22/14 00:53	20
Dibromofluoromethane	97		75 - 120		04/22/14 00:53	20
Toluene-d8 (Surr)	91		75 - 120		04/22/14 00:53	20

Client Sample ID: DUP-4

Lab Sample ID: 500-75262-9

Date Collected: 04/16/14 00:00

Matrix: Water

Date Received: 04/17/14 09:30

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			04/22/14 01:18	20
1,1,1-Trichloroethane	<4.0		20	4.0	ug/L			04/22/14 01:18	20
1,1,2,2-Tetrachloroethane	<4.6		20	4.6	ug/L			04/22/14 01:18	20
1,1,2-Trichloroethane	<5.6		20	5.6	ug/L			04/22/14 01:18	20
1,1-Dichloroethane	<3.8		20	3.8	ug/L			04/22/14 01:18	20
1,1-Dichloroethene	<6.2		20	6.2	ug/L			04/22/14 01:18	20
1,1-Dichloropropene	<6.8		20	6.8	ug/L			04/22/14 01:18	20

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: DUP-4

Lab Sample ID: 500-75262-9

Date Collected: 04/16/14 00:00

Matrix: Water

Date Received: 04/17/14 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<4.8		20	4.8	ug/L			04/22/14 01:18	20
1,2,3-Trichloropropane	<9.0		20	9.0	ug/L			04/22/14 01:18	20
1,2,4-Trichlorobenzene	<6.2		20	6.2	ug/L			04/22/14 01:18	20
1,2,4-Trimethylbenzene	<2.8		20	2.8	ug/L			04/22/14 01:18	20
1,2-Dibromo-3-Chloropropane	<17		40	17	ug/L			04/22/14 01:18	20
1,2-Dibromoethane	<7.2		20	7.2	ug/L			04/22/14 01:18	20
1,2-Dichlorobenzene	<5.4		20	5.4	ug/L			04/22/14 01:18	20
1,2-Dichloroethane	<5.6		20	5.6	ug/L			04/22/14 01:18	20
1,2-Dichloropropane	<4.0		20	4.0	ug/L			04/22/14 01:18	20
1,3,5-Trimethylbenzene	<3.6		20	3.6	ug/L			04/22/14 01:18	20
1,3-Dichlorobenzene	<3.0		20	3.0	ug/L			04/22/14 01:18	20
1,3-Dichloropropane	<2.6		20	2.6	ug/L			04/22/14 01:18	20
1,4-Dichlorobenzene	<3.0		20	3.0	ug/L			04/22/14 01:18	20
2,2-Dichloropropane	<6.4		20	6.4	ug/L			04/22/14 01:18	20
2-Chlorotoluene	<4.2		20	4.2	ug/L			04/22/14 01:18	20
4-Chlorotoluene	<4.0		20	4.0	ug/L			04/22/14 01:18	20
Benzene	<1.5		10	1.5	ug/L			04/22/14 01:18	20
Bromobenzene	<5.0		20	5.0	ug/L			04/22/14 01:18	20
Bromochloromethane	<8.0		20	8.0	ug/L			04/22/14 01:18	20
Bromodichloromethane	<3.4		20	3.4	ug/L			04/22/14 01:18	20
Bromoform	<5.6		20	5.6	ug/L			04/22/14 01:18	20
Bromomethane	<6.2		20	6.2	ug/L			04/22/14 01:18	20
Carbon tetrachloride	<5.2		20	5.2	ug/L			04/22/14 01:18	20
Chlorobenzene	<2.8		20	2.8	ug/L			04/22/14 01:18	20
Chloroethane	<6.8		20	6.8	ug/L			04/22/14 01:18	20
Chloroform	<4.0		20	4.0	ug/L			04/22/14 01:18	20
Chloromethane	<3.6		20	3.6	ug/L			04/22/14 01:18	20
cis-1,2-Dichloroethene	2400		20	2.4	ug/L			04/22/14 01:18	20
cis-1,3-Dichloropropene	<3.6		20	3.6	ug/L			04/22/14 01:18	20
Dibromochloromethane	<6.4		20	6.4	ug/L			04/22/14 01:18	20
Dibromomethane	<6.6		20	6.6	ug/L			04/22/14 01:18	20
Dichlorodifluoromethane	<4.0		20	4.0	ug/L			04/22/14 01:18	20
Ethylbenzene	<2.6		10	2.6	ug/L			04/22/14 01:18	20
Hexachlorobutadiene	<5.2		20	5.2	ug/L			04/22/14 01:18	20
Isopropyl ether	<3.0		20	3.0	ug/L			04/22/14 01:18	20
Isopropylbenzene	<2.8		20	2.8	ug/L			04/22/14 01:18	20
Methyl tert-butyl ether	<4.8		20	4.8	ug/L			04/22/14 01:18	20
Methylene Chloride	<14		100	14	ug/L			04/22/14 01:18	20
Naphthalene	<3.2		20	3.2	ug/L			04/22/14 01:18	20
n-Butylbenzene	<2.6		20	2.6	ug/L			04/22/14 01:18	20
N-Propylbenzene	<2.6		20	2.6	ug/L			04/22/14 01:18	20
p-Isopropyltoluene	<3.4		20	3.4	ug/L			04/22/14 01:18	20
sec-Butylbenzene	<3.0		20	3.0	ug/L			04/22/14 01:18	20
Styrene	<2.0		20	2.0	ug/L			04/22/14 01:18	20
tert-Butylbenzene	<2.8		20	2.8	ug/L			04/22/14 01:18	20
Toluene	<2.2		10	2.2	ug/L			04/22/14 01:18	20
trans-1,2-Dichloroethene	41		20	5.0	ug/L			04/22/14 01:18	20
trans-1,3-Dichloropropene	<4.2		20	4.2	ug/L			04/22/14 01:18	20
Trichloroethene	1100		10	3.8	ug/L			04/22/14 01:18	20

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: DUP-4

Lab Sample ID: 500-75262-9

Date Collected: 04/16/14 00:00

Matrix: Water

Date Received: 04/17/14 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	<3.8		20	3.8	ug/L			04/22/14 01:18	20
Vinyl chloride	95		10	2.0	ug/L			04/22/14 01:18	20
Xylenes, Total	<1.4		20	1.4	ug/L			04/22/14 01:18	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		75 - 125					04/22/14 01:18	20
4-Bromofluorobenzene (Surr)	97		75 - 120					04/22/14 01:18	20
Dibromofluoromethane	97		75 - 120					04/22/14 01:18	20
Toluene-d8 (Surr)	89		75 - 120					04/22/14 01:18	20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	7800		200	34	ug/L			04/22/14 01:43	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 125					04/22/14 01:43	200
4-Bromofluorobenzene (Surr)	101		75 - 120					04/22/14 01:43	200
Dibromofluoromethane	96		75 - 120					04/22/14 01:43	200
Toluene-d8 (Surr)	91		75 - 120					04/22/14 01:43	200

Client Sample ID: MW-3D2

Lab Sample ID: 500-75262-10

Date Collected: 04/16/14 16:10

Matrix: Water

Date Received: 04/17/14 09:30

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			04/22/14 02:08	5
1,1,1-Trichloroethane	<1.0		5.0	1.0	ug/L			04/22/14 02:08	5
1,1,2,2-Tetrachloroethane	<1.2		5.0	1.2	ug/L			04/22/14 02:08	5
1,1,2-Trichloroethane	<1.4		5.0	1.4	ug/L			04/22/14 02:08	5
1,1-Dichloroethane	<0.95		5.0	0.95	ug/L			04/22/14 02:08	5
1,1-Dichloroethene	<1.6		5.0	1.6	ug/L			04/22/14 02:08	5
1,1-Dichloropropene	<1.7		5.0	1.7	ug/L			04/22/14 02:08	5
1,2,3-Trichlorobenzene	<1.2		5.0	1.2	ug/L			04/22/14 02:08	5
1,2,3-Trichloropropane	<2.3		5.0	2.3	ug/L			04/22/14 02:08	5
1,2,4-Trichlorobenzene	<1.6		5.0	1.6	ug/L			04/22/14 02:08	5
1,2,4-Trimethylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 02:08	5
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/L			04/22/14 02:08	5
1,2-Dibromoethane	<1.8		5.0	1.8	ug/L			04/22/14 02:08	5
1,2-Dichlorobenzene	<1.4		5.0	1.4	ug/L			04/22/14 02:08	5
1,2-Dichloroethane	<1.4		5.0	1.4	ug/L			04/22/14 02:08	5
1,2-Dichloropropane	<1.0		5.0	1.0	ug/L			04/22/14 02:08	5
1,3,5-Trimethylbenzene	<0.90		5.0	0.90	ug/L			04/22/14 02:08	5
1,3-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/22/14 02:08	5
1,3-Dichloropropane	<0.65		5.0	0.65	ug/L			04/22/14 02:08	5
1,4-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/22/14 02:08	5
2,2-Dichloropropane	<1.6		5.0	1.6	ug/L			04/22/14 02:08	5
2-Chlorotoluene	<1.1		5.0	1.1	ug/L			04/22/14 02:08	5
4-Chlorotoluene	<1.0		5.0	1.0	ug/L			04/22/14 02:08	5
Benzene	<0.37		2.5	0.37	ug/L			04/22/14 02:08	5

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: MW-3D2

Lab Sample ID: 500-75262-10

Date Collected: 04/16/14 16:10

Matrix: Water

Date Received: 04/17/14 09:30

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			04/22/14 02:08	5
Bromochloromethane	<2.0		5.0	2.0	ug/L			04/22/14 02:08	5
Bromodichloromethane	<0.85		5.0	0.85	ug/L			04/22/14 02:08	5
Bromoform	<1.4		5.0	1.4	ug/L			04/22/14 02:08	5
Bromomethane	<1.6		5.0	1.6	ug/L			04/22/14 02:08	5
Carbon tetrachloride	<1.3		5.0	1.3	ug/L			04/22/14 02:08	5
Chlorobenzene	<0.70		5.0	0.70	ug/L			04/22/14 02:08	5
Chloroethane	<1.7		5.0	1.7	ug/L			04/22/14 02:08	5
Chloroform	<1.0		5.0	1.0	ug/L			04/22/14 02:08	5
Chloromethane	<0.90		5.0	0.90	ug/L			04/22/14 02:08	5
cis-1,2-Dichloroethene	210		5.0	0.60	ug/L			04/22/14 02:08	5
cis-1,3-Dichloropropene	<0.90		5.0	0.90	ug/L			04/22/14 02:08	5
Dibromochloromethane	<1.6		5.0	1.6	ug/L			04/22/14 02:08	5
Dibromomethane	<1.7		5.0	1.7	ug/L			04/22/14 02:08	5
Dichlorodifluoromethane	<1.0		5.0	1.0	ug/L			04/22/14 02:08	5
Ethylbenzene	<0.65		2.5	0.65	ug/L			04/22/14 02:08	5
Hexachlorobutadiene	<1.3		5.0	1.3	ug/L			04/22/14 02:08	5
Isopropyl ether	<0.75		5.0	0.75	ug/L			04/22/14 02:08	5
Isopropylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 02:08	5
Methyl tert-butyl ether	<1.2		5.0	1.2	ug/L			04/22/14 02:08	5
Methylene Chloride	<3.4		25	3.4	ug/L			04/22/14 02:08	5
Naphthalene	<0.80		5.0	0.80	ug/L			04/22/14 02:08	5
n-Butylbenzene	<0.65		5.0	0.65	ug/L			04/22/14 02:08	5
N-Propylbenzene	<0.65		5.0	0.65	ug/L			04/22/14 02:08	5
p-Isopropyltoluene	<0.85		5.0	0.85	ug/L			04/22/14 02:08	5
sec-Butylbenzene	<0.75		5.0	0.75	ug/L			04/22/14 02:08	5
Styrene	<0.50		5.0	0.50	ug/L			04/22/14 02:08	5
tert-Butylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 02:08	5
Toluene	<0.55		2.5	0.55	ug/L			04/22/14 02:08	5
trans-1,2-Dichloroethene	3.1 J		5.0	1.3	ug/L			04/22/14 02:08	5
trans-1,3-Dichloropropene	<1.1		5.0	1.1	ug/L			04/22/14 02:08	5
Trichloroethene	120		2.5	0.95	ug/L			04/22/14 02:08	5
Trichlorofluoromethane	<0.95		5.0	0.95	ug/L			04/22/14 02:08	5
Vinyl chloride	<0.50		2.5	0.50	ug/L			04/22/14 02:08	5
Xylenes, Total	<0.34		5.0	0.34	ug/L			04/22/14 02:08	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 125		04/22/14 02:08	5
4-Bromofluorobenzene (Surr)	104		75 - 120		04/22/14 02:08	5
Dibromofluoromethane	97		75 - 120		04/22/14 02:08	5
Toluene-d8 (Surr)	89		75 - 120		04/22/14 02:08	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1800		50	8.5	ug/L			04/22/14 02:33	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		75 - 125		04/22/14 02:33	50
4-Bromofluorobenzene (Surr)	98		75 - 120		04/22/14 02:33	50
Dibromofluoromethane	95		75 - 120		04/22/14 02:33	50

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: MW-3D2

Date Collected: 04/16/14 16:10

Date Received: 04/17/14 09:30

Lab Sample ID: 500-75262-10

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	92		75 - 120		04/22/14 02:33	50

Client Sample ID: MW-5D3

Date Collected: 04/16/14 12:30

Date Received: 04/17/14 09:30

Lab Sample ID: 500-75262-11

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			04/21/14 18:27	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/21/14 18:27	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/21/14 18:27	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/21/14 18:27	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/21/14 18:27	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/21/14 18:27	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/21/14 18:27	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/21/14 18:27	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/21/14 18:27	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/21/14 18:27	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/21/14 18:27	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/21/14 18:27	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/21/14 18:27	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/21/14 18:27	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/21/14 18:27	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/21/14 18:27	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/21/14 18:27	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/21/14 18:27	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/21/14 18:27	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/21/14 18:27	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/21/14 18:27	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/21/14 18:27	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/21/14 18:27	1
Benzene	<0.074		0.50	0.074	ug/L			04/21/14 18:27	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/21/14 18:27	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/21/14 18:27	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/21/14 18:27	1
Bromoform	<0.28		1.0	0.28	ug/L			04/21/14 18:27	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/21/14 18:27	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/21/14 18:27	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/21/14 18:27	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/21/14 18:27	1
Chloroform	<0.20		1.0	0.20	ug/L			04/21/14 18:27	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/21/14 18:27	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/21/14 18:27	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/21/14 18:27	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/21/14 18:27	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/21/14 18:27	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/21/14 18:27	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/21/14 18:27	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/21/14 18:27	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: MW-5D3

Lab Sample ID: 500-75262-11

Date Collected: 04/16/14 12:30

Matrix: Water

Date Received: 04/17/14 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/21/14 18:27	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/21/14 18:27	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/21/14 18:27	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/21/14 18:27	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/21/14 18:27	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/21/14 18:27	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/21/14 18:27	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/21/14 18:27	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/21/14 18:27	1
Styrene	<0.10		1.0	0.10	ug/L			04/21/14 18:27	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/21/14 18:27	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/21/14 18:27	1
Toluene	<0.11		0.50	0.11	ug/L			04/21/14 18:27	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/21/14 18:27	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/21/14 18:27	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/21/14 18:27	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/21/14 18:27	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/21/14 18:27	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/21/14 18:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		75 - 125		04/21/14 18:27	1
4-Bromofluorobenzene (Surr)	96		75 - 120		04/21/14 18:27	1
Dibromofluoromethane	96		75 - 120		04/21/14 18:27	1
Toluene-d8 (Surr)	91		75 - 120		04/21/14 18:27	1

Client Sample ID: MW-3D3

Lab Sample ID: 500-75262-12

Date Collected: 04/16/14 16:05

Matrix: Water

Date Received: 04/17/14 09:30

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			04/21/14 18:52	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/21/14 18:52	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/21/14 18:52	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/21/14 18:52	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/21/14 18:52	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/21/14 18:52	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/21/14 18:52	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/21/14 18:52	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/21/14 18:52	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/21/14 18:52	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/21/14 18:52	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/21/14 18:52	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/21/14 18:52	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/21/14 18:52	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/21/14 18:52	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/21/14 18:52	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/21/14 18:52	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/21/14 18:52	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: MW-3D3

Lab Sample ID: 500-75262-12

Date Collected: 04/16/14 16:05

Matrix: Water

Date Received: 04/17/14 09:30

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			04/21/14 18:52	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/21/14 18:52	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/21/14 18:52	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/21/14 18:52	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/21/14 18:52	1
Benzene	<0.074		0.50	0.074	ug/L			04/21/14 18:52	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/21/14 18:52	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/21/14 18:52	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/21/14 18:52	1
Bromoform	<0.28		1.0	0.28	ug/L			04/21/14 18:52	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/21/14 18:52	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/21/14 18:52	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/21/14 18:52	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/21/14 18:52	1
Chloroform	<0.20		1.0	0.20	ug/L			04/21/14 18:52	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/21/14 18:52	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/21/14 18:52	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/21/14 18:52	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/21/14 18:52	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/21/14 18:52	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/21/14 18:52	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/21/14 18:52	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/21/14 18:52	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/21/14 18:52	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/21/14 18:52	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/21/14 18:52	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/21/14 18:52	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/21/14 18:52	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/21/14 18:52	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/21/14 18:52	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/21/14 18:52	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/21/14 18:52	1
Styrene	<0.10		1.0	0.10	ug/L			04/21/14 18:52	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/21/14 18:52	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/21/14 18:52	1
Toluene	<0.11		0.50	0.11	ug/L			04/21/14 18:52	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/21/14 18:52	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/21/14 18:52	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/21/14 18:52	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/21/14 18:52	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/21/14 18:52	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/21/14 18:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 125		04/21/14 18:52	1
4-Bromofluorobenzene (Surr)	93		75 - 120		04/21/14 18:52	1
Dibromofluoromethane	97		75 - 120		04/21/14 18:52	1
Toluene-d8 (Surr)	89		75 - 120		04/21/14 18:52	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: DUP-3

Lab Sample ID: 500-75262-13

Date Collected: 04/16/14 16:10

Matrix: Water

Date Received: 04/17/14 09:30

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			04/22/14 02:58	5
1,1,1-Trichloroethane	<1.0		5.0	1.0	ug/L			04/22/14 02:58	5
1,1,2,2-Tetrachloroethane	<1.2		5.0	1.2	ug/L			04/22/14 02:58	5
1,1,2-Trichloroethane	<1.4		5.0	1.4	ug/L			04/22/14 02:58	5
1,1-Dichloroethane	<0.95		5.0	0.95	ug/L			04/22/14 02:58	5
1,1-Dichloroethene	<1.6		5.0	1.6	ug/L			04/22/14 02:58	5
1,1-Dichloropropene	<1.7		5.0	1.7	ug/L			04/22/14 02:58	5
1,2,3-Trichlorobenzene	<1.2		5.0	1.2	ug/L			04/22/14 02:58	5
1,2,3-Trichloropropane	<2.3		5.0	2.3	ug/L			04/22/14 02:58	5
1,2,4-Trichlorobenzene	<1.6		5.0	1.6	ug/L			04/22/14 02:58	5
1,2,4-Trimethylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 02:58	5
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/L			04/22/14 02:58	5
1,2-Dibromoethane	<1.8		5.0	1.8	ug/L			04/22/14 02:58	5
1,2-Dichlorobenzene	<1.4		5.0	1.4	ug/L			04/22/14 02:58	5
1,2-Dichloroethane	<1.4		5.0	1.4	ug/L			04/22/14 02:58	5
1,2-Dichloropropane	<1.0		5.0	1.0	ug/L			04/22/14 02:58	5
1,3,5-Trimethylbenzene	<0.90		5.0	0.90	ug/L			04/22/14 02:58	5
1,3-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/22/14 02:58	5
1,3-Dichloropropane	<0.65		5.0	0.65	ug/L			04/22/14 02:58	5
1,4-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/22/14 02:58	5
2,2-Dichloropropane	<1.6		5.0	1.6	ug/L			04/22/14 02:58	5
2-Chlorotoluene	<1.1		5.0	1.1	ug/L			04/22/14 02:58	5
4-Chlorotoluene	<1.0		5.0	1.0	ug/L			04/22/14 02:58	5
Benzene	<0.37		2.5	0.37	ug/L			04/22/14 02:58	5
Bromobenzene	<1.3		5.0	1.3	ug/L			04/22/14 02:58	5
Bromochloromethane	<2.0		5.0	2.0	ug/L			04/22/14 02:58	5
Bromodichloromethane	<0.85		5.0	0.85	ug/L			04/22/14 02:58	5
Bromoform	<1.4		5.0	1.4	ug/L			04/22/14 02:58	5
Bromomethane	<1.6		5.0	1.6	ug/L			04/22/14 02:58	5
Carbon tetrachloride	<1.3		5.0	1.3	ug/L			04/22/14 02:58	5
Chlorobenzene	<0.70		5.0	0.70	ug/L			04/22/14 02:58	5
Chloroethane	<1.7		5.0	1.7	ug/L			04/22/14 02:58	5
Chloroform	<1.0		5.0	1.0	ug/L			04/22/14 02:58	5
Chloromethane	<0.90		5.0	0.90	ug/L			04/22/14 02:58	5
cis-1,2-Dichloroethene	220		5.0	0.60	ug/L			04/22/14 02:58	5
cis-1,3-Dichloropropene	<0.90		5.0	0.90	ug/L			04/22/14 02:58	5
Dibromochloromethane	<1.6		5.0	1.6	ug/L			04/22/14 02:58	5
Dibromomethane	<1.7		5.0	1.7	ug/L			04/22/14 02:58	5
Dichlorodifluoromethane	<1.0		5.0	1.0	ug/L			04/22/14 02:58	5
Ethylbenzene	<0.65		2.5	0.65	ug/L			04/22/14 02:58	5
Hexachlorobutadiene	<1.3		5.0	1.3	ug/L			04/22/14 02:58	5
Isopropyl ether	<0.75		5.0	0.75	ug/L			04/22/14 02:58	5
Isopropylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 02:58	5
Methyl tert-butyl ether	<1.2		5.0	1.2	ug/L			04/22/14 02:58	5
Methylene Chloride	<3.4		25	3.4	ug/L			04/22/14 02:58	5
Naphthalene	<0.80		5.0	0.80	ug/L			04/22/14 02:58	5
n-Butylbenzene	<0.65		5.0	0.65	ug/L			04/22/14 02:58	5
N-Propylbenzene	<0.65		5.0	0.65	ug/L			04/22/14 02:58	5
p-Isopropyltoluene	<0.85		5.0	0.85	ug/L			04/22/14 02:58	5

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: DUP-3

Lab Sample ID: 500-75262-13

Date Collected: 04/16/14 16:10

Matrix: Water

Date Received: 04/17/14 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.75		5.0	0.75	ug/L			04/22/14 02:58	5
Styrene	<0.50		5.0	0.50	ug/L			04/22/14 02:58	5
tert-Butylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 02:58	5
Toluene	<0.55		2.5	0.55	ug/L			04/22/14 02:58	5
trans-1,2-Dichloroethene	3.9	J	5.0	1.3	ug/L			04/22/14 02:58	5
trans-1,3-Dichloropropene	<1.1		5.0	1.1	ug/L			04/22/14 02:58	5
Trichloroethene	130		2.5	0.95	ug/L			04/22/14 02:58	5
Trichlorofluoromethane	<0.95		5.0	0.95	ug/L			04/22/14 02:58	5
Vinyl chloride	<0.50		2.5	0.50	ug/L			04/22/14 02:58	5
Xylenes, Total	<0.34		5.0	0.34	ug/L			04/22/14 02:58	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 125					04/22/14 02:58	5
4-Bromofluorobenzene (Surr)	97		75 - 120					04/22/14 02:58	5
Dibromofluoromethane	100		75 - 120					04/22/14 02:58	5
Toluene-d8 (Surr)	91		75 - 120					04/22/14 02:58	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1700		50	8.5	ug/L			04/22/14 03:23	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		75 - 125					04/22/14 03:23	50
4-Bromofluorobenzene (Surr)	97		75 - 120					04/22/14 03:23	50
Dibromofluoromethane	98		75 - 120					04/22/14 03:23	50
Toluene-d8 (Surr)	90		75 - 120					04/22/14 03:23	50

Client Sample ID: MW-9D2

Lab Sample ID: 500-75262-14

Date Collected: 04/16/14 10:22

Matrix: Water

Date Received: 04/17/14 09:30

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			04/22/14 03:48	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/22/14 03:48	1
1,1,1,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/22/14 03:48	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 03:48	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/22/14 03:48	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/22/14 03:48	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/22/14 03:48	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/22/14 03:48	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/22/14 03:48	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/22/14 03:48	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 03:48	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/22/14 03:48	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/22/14 03:48	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/22/14 03:48	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 03:48	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/22/14 03:48	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/22/14 03:48	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: MW-9D2

Lab Sample ID: 500-75262-14

Date Collected: 04/16/14 10:22

Matrix: Water

Date Received: 04/17/14 09:30

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			04/22/14 03:48	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/22/14 03:48	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 03:48	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/22/14 03:48	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/22/14 03:48	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/22/14 03:48	1
Benzene	<0.074		0.50	0.074	ug/L			04/22/14 03:48	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/22/14 03:48	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/22/14 03:48	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/22/14 03:48	1
Bromoform	<0.28		1.0	0.28	ug/L			04/22/14 03:48	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/22/14 03:48	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/22/14 03:48	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/22/14 03:48	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/22/14 03:48	1
Chloroform	<0.20		1.0	0.20	ug/L			04/22/14 03:48	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/22/14 03:48	1
cis-1,2-Dichloroethene	19		1.0	0.12	ug/L			04/22/14 03:48	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/22/14 03:48	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/22/14 03:48	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/22/14 03:48	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/22/14 03:48	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/22/14 03:48	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/22/14 03:48	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/22/14 03:48	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 03:48	1
Methyl tert-butyl ether	9.6		1.0	0.24	ug/L			04/22/14 03:48	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/22/14 03:48	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/22/14 03:48	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 03:48	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 03:48	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/22/14 03:48	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/22/14 03:48	1
Styrene	<0.10		1.0	0.10	ug/L			04/22/14 03:48	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 03:48	1
Tetrachloroethene	26		1.0	0.17	ug/L			04/22/14 03:48	1
Toluene	<0.11		0.50	0.11	ug/L			04/22/14 03:48	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/22/14 03:48	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/22/14 03:48	1
Trichloroethene	6.5		0.50	0.19	ug/L			04/22/14 03:48	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/22/14 03:48	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/22/14 03:48	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/22/14 03:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 125					04/22/14 03:48	1
4-Bromofluorobenzene (Surr)	99		75 - 120					04/22/14 03:48	1
Dibromofluoromethane	98		75 - 120					04/22/14 03:48	1
Toluene-d8 (Surr)	88		75 - 120					04/22/14 03:48	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: MW-3S

Lab Sample ID: 500-75262-15

Date Collected: 04/16/14 13:07

Matrix: Water

Date Received: 04/17/14 09:30

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			04/22/14 06:20	5
1,1,1-Trichloroethane	<1.0		5.0	1.0	ug/L			04/22/14 06:20	5
1,1,2,2-Tetrachloroethane	<1.2		5.0	1.2	ug/L			04/22/14 06:20	5
1,1,2-Trichloroethane	<1.4		5.0	1.4	ug/L			04/22/14 06:20	5
1,1-Dichloroethane	<0.95		5.0	0.95	ug/L			04/22/14 06:20	5
1,1-Dichloroethene	<1.6		5.0	1.6	ug/L			04/22/14 06:20	5
1,1-Dichloropropene	<1.7		5.0	1.7	ug/L			04/22/14 06:20	5
1,2,3-Trichlorobenzene	<1.2		5.0	1.2	ug/L			04/22/14 06:20	5
1,2,3-Trichloropropane	<2.3		5.0	2.3	ug/L			04/22/14 06:20	5
1,2,4-Trichlorobenzene	<1.6		5.0	1.6	ug/L			04/22/14 06:20	5
1,2,4-Trimethylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 06:20	5
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/L			04/22/14 06:20	5
1,2-Dibromoethane	<1.8		5.0	1.8	ug/L			04/22/14 06:20	5
1,2-Dichlorobenzene	<1.4		5.0	1.4	ug/L			04/22/14 06:20	5
1,2-Dichloroethane	<1.4		5.0	1.4	ug/L			04/22/14 06:20	5
1,2-Dichloropropane	<1.0		5.0	1.0	ug/L			04/22/14 06:20	5
1,3,5-Trimethylbenzene	<0.90		5.0	0.90	ug/L			04/22/14 06:20	5
1,3-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/22/14 06:20	5
1,3-Dichloropropane	<0.65		5.0	0.65	ug/L			04/22/14 06:20	5
1,4-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/22/14 06:20	5
2,2-Dichloropropane	<1.6		5.0	1.6	ug/L			04/22/14 06:20	5
2-Chlorotoluene	<1.1		5.0	1.1	ug/L			04/22/14 06:20	5
4-Chlorotoluene	<1.0		5.0	1.0	ug/L			04/22/14 06:20	5
Benzene	<0.37		2.5	0.37	ug/L			04/22/14 06:20	5
Bromobenzene	<1.3		5.0	1.3	ug/L			04/22/14 06:20	5
Bromochloromethane	<2.0		5.0	2.0	ug/L			04/22/14 06:20	5
Bromodichloromethane	<0.85		5.0	0.85	ug/L			04/22/14 06:20	5
Bromoform	<1.4		5.0	1.4	ug/L			04/22/14 06:20	5
Bromomethane	<1.6		5.0	1.6	ug/L			04/22/14 06:20	5
Carbon tetrachloride	<1.3		5.0	1.3	ug/L			04/22/14 06:20	5
Chlorobenzene	<0.70		5.0	0.70	ug/L			04/22/14 06:20	5
Chloroethane	<1.7		5.0	1.7	ug/L			04/22/14 06:20	5
Chloroform	3.9 J		5.0	1.0	ug/L			04/22/14 06:20	5
Chloromethane	<0.90		5.0	0.90	ug/L			04/22/14 06:20	5
cis-1,2-Dichloroethene	<0.60		5.0	0.60	ug/L			04/22/14 06:20	5
cis-1,3-Dichloropropene	<0.90		5.0	0.90	ug/L			04/22/14 06:20	5
Dibromochloromethane	<1.6		5.0	1.6	ug/L			04/22/14 06:20	5
Dibromomethane	<1.7		5.0	1.7	ug/L			04/22/14 06:20	5
Dichlorodifluoromethane	<1.0		5.0	1.0	ug/L			04/22/14 06:20	5
Ethylbenzene	<0.65		2.5	0.65	ug/L			04/22/14 06:20	5
Hexachlorobutadiene	<1.3		5.0	1.3	ug/L			04/22/14 06:20	5
Isopropyl ether	<0.75		5.0	0.75	ug/L			04/22/14 06:20	5
Isopropylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 06:20	5
Methyl tert-butyl ether	<1.2		5.0	1.2	ug/L			04/22/14 06:20	5
Methylene Chloride	<3.4		25	3.4	ug/L			04/22/14 06:20	5
Naphthalene	<0.80		5.0	0.80	ug/L			04/22/14 06:20	5
n-Butylbenzene	<0.65		5.0	0.65	ug/L			04/22/14 06:20	5
N-Propylbenzene	<0.65		5.0	0.65	ug/L			04/22/14 06:20	5
p-Isopropyltoluene	<0.85		5.0	0.85	ug/L			04/22/14 06:20	5

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: MW-3S

Lab Sample ID: 500-75262-15

Date Collected: 04/16/14 13:07

Matrix: Water

Date Received: 04/17/14 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.75		5.0	0.75	ug/L			04/22/14 06:20	5
Styrene	<0.50		5.0	0.50	ug/L			04/22/14 06:20	5
tert-Butylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 06:20	5
Tetrachloroethene	<0.85		5.0	0.85	ug/L			04/22/14 06:20	5
Toluene	<0.55		2.5	0.55	ug/L			04/22/14 06:20	5
trans-1,2-Dichloroethene	<1.3		5.0	1.3	ug/L			04/22/14 06:20	5
trans-1,3-Dichloropropene	<1.1		5.0	1.1	ug/L			04/22/14 06:20	5
Trichloroethene	<0.95		2.5	0.95	ug/L			04/22/14 06:20	5
Trichlorofluoromethane	<0.95		5.0	0.95	ug/L			04/22/14 06:20	5
Vinyl chloride	<0.50		2.5	0.50	ug/L			04/22/14 06:20	5
Xylenes, Total	<0.34		5.0	0.34	ug/L			04/22/14 06:20	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		75 - 125					04/22/14 06:20	5
4-Bromofluorobenzene (Surr)	100		75 - 120					04/22/14 06:20	5
Dibromofluoromethane	100		75 - 120					04/22/14 06:20	5
Toluene-d8 (Surr)	89		75 - 120					04/22/14 06:20	5

Client Sample ID: MW-3S Quenched

Lab Sample ID: 500-75262-16

Date Collected: 04/16/14 13:10

Matrix: Water

Date Received: 04/17/14 09:30

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			04/22/14 06:45	5
1,1,1-Trichloroethane	<1.0		5.0	1.0	ug/L			04/22/14 06:45	5
1,1,2,2-Tetrachloroethane	<1.2		5.0	1.2	ug/L			04/22/14 06:45	5
1,1,2-Trichloroethane	<1.4		5.0	1.4	ug/L			04/22/14 06:45	5
1,1-Dichloroethane	<0.95		5.0	0.95	ug/L			04/22/14 06:45	5
1,1-Dichloroethene	<1.6		5.0	1.6	ug/L			04/22/14 06:45	5
1,1-Dichloropropene	<1.7		5.0	1.7	ug/L			04/22/14 06:45	5
1,2,3-Trichlorobenzene	<1.2		5.0	1.2	ug/L			04/22/14 06:45	5
1,2,3-Trichloropropane	<2.3		5.0	2.3	ug/L			04/22/14 06:45	5
1,2,4-Trichlorobenzene	<1.6		5.0	1.6	ug/L			04/22/14 06:45	5
1,2,4-Trimethylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 06:45	5
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/L			04/22/14 06:45	5
1,2-Dibromoethane	<1.8		5.0	1.8	ug/L			04/22/14 06:45	5
1,2-Dichlorobenzene	<1.4		5.0	1.4	ug/L			04/22/14 06:45	5
1,2-Dichloroethane	<1.4		5.0	1.4	ug/L			04/22/14 06:45	5
1,2-Dichloropropane	<1.0		5.0	1.0	ug/L			04/22/14 06:45	5
1,3,5-Trimethylbenzene	<0.90		5.0	0.90	ug/L			04/22/14 06:45	5
1,3-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/22/14 06:45	5
1,3-Dichloropropane	<0.65		5.0	0.65	ug/L			04/22/14 06:45	5
1,4-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/22/14 06:45	5
2,2-Dichloropropane	<1.6		5.0	1.6	ug/L			04/22/14 06:45	5
2-Chlorotoluene	<1.1		5.0	1.1	ug/L			04/22/14 06:45	5
4-Chlorotoluene	<1.0		5.0	1.0	ug/L			04/22/14 06:45	5
Benzene	<0.37		2.5	0.37	ug/L			04/22/14 06:45	5
Bromobenzene	<1.3		5.0	1.3	ug/L			04/22/14 06:45	5
Bromochloromethane	<2.0		5.0	2.0	ug/L			04/22/14 06:45	5

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: MW-3S Quenched

Lab Sample ID: 500-75262-16

Date Collected: 04/16/14 13:10

Matrix: Water

Date Received: 04/17/14 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.85		5.0	0.85	ug/L			04/22/14 06:45	5
Bromoform	<1.4		5.0	1.4	ug/L			04/22/14 06:45	5
Bromomethane	<1.6		5.0	1.6	ug/L			04/22/14 06:45	5
Carbon tetrachloride	<1.3		5.0	1.3	ug/L			04/22/14 06:45	5
Chlorobenzene	<0.70		5.0	0.70	ug/L			04/22/14 06:45	5
Chloroethane	<1.7		5.0	1.7	ug/L			04/22/14 06:45	5
Chloroform	3.4	J	5.0	1.0	ug/L			04/22/14 06:45	5
Chloromethane	<0.90		5.0	0.90	ug/L			04/22/14 06:45	5
cis-1,2-Dichloroethene	<0.60		5.0	0.60	ug/L			04/22/14 06:45	5
cis-1,3-Dichloropropene	<0.90		5.0	0.90	ug/L			04/22/14 06:45	5
Dibromochloromethane	<1.6		5.0	1.6	ug/L			04/22/14 06:45	5
Dibromomethane	<1.7		5.0	1.7	ug/L			04/22/14 06:45	5
Dichlorodifluoromethane	<1.0		5.0	1.0	ug/L			04/22/14 06:45	5
Ethylbenzene	<0.65		2.5	0.65	ug/L			04/22/14 06:45	5
Hexachlorobutadiene	<1.3		5.0	1.3	ug/L			04/22/14 06:45	5
Isopropyl ether	<0.75		5.0	0.75	ug/L			04/22/14 06:45	5
Isopropylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 06:45	5
Methyl tert-butyl ether	<1.2		5.0	1.2	ug/L			04/22/14 06:45	5
Methylene Chloride	<3.4		25	3.4	ug/L			04/22/14 06:45	5
Naphthalene	<0.80		5.0	0.80	ug/L			04/22/14 06:45	5
n-Butylbenzene	<0.65		5.0	0.65	ug/L			04/22/14 06:45	5
N-Propylbenzene	<0.65		5.0	0.65	ug/L			04/22/14 06:45	5
p-Isopropyltoluene	<0.85		5.0	0.85	ug/L			04/22/14 06:45	5
sec-Butylbenzene	<0.75		5.0	0.75	ug/L			04/22/14 06:45	5
Styrene	<0.50		5.0	0.50	ug/L			04/22/14 06:45	5
tert-Butylbenzene	<0.70		5.0	0.70	ug/L			04/22/14 06:45	5
Tetrachloroethene	630		5.0	0.85	ug/L			04/22/14 06:45	5
Toluene	<0.55		2.5	0.55	ug/L			04/22/14 06:45	5
trans-1,2-Dichloroethene	<1.3		5.0	1.3	ug/L			04/22/14 06:45	5
trans-1,3-Dichloropropene	<1.1		5.0	1.1	ug/L			04/22/14 06:45	5
Trichloroethene	6.9		2.5	0.95	ug/L			04/22/14 06:45	5
Trichlorofluoromethane	<0.95		5.0	0.95	ug/L			04/22/14 06:45	5
Vinyl chloride	<0.50		2.5	0.50	ug/L			04/22/14 06:45	5
Xylenes, Total	<0.34		5.0	0.34	ug/L			04/22/14 06:45	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		75 - 125		04/22/14 06:45	5
4-Bromofluorobenzene (Surr)	102		75 - 120		04/22/14 06:45	5
Dibromofluoromethane	96		75 - 120		04/22/14 06:45	5
Toluene-d8 (Surr)	89		75 - 120		04/22/14 06:45	5

Client Sample ID: MW-9D

Lab Sample ID: 500-75262-17

Date Collected: 04/16/14 10:08

Matrix: Water

Date Received: 04/17/14 09:30

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			04/22/14 04:14	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/22/14 04:14	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/22/14 04:14	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: MW-9D

Lab Sample ID: 500-75262-17

Date Collected: 04/16/14 10:08

Matrix: Water

Date Received: 04/17/14 09:30

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			04/22/14 04:14	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/22/14 04:14	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/22/14 04:14	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/22/14 04:14	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/22/14 04:14	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/22/14 04:14	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/22/14 04:14	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 04:14	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/22/14 04:14	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/22/14 04:14	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/22/14 04:14	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 04:14	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/22/14 04:14	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/22/14 04:14	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 04:14	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/22/14 04:14	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 04:14	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/22/14 04:14	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/22/14 04:14	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/22/14 04:14	1
Benzene	<0.074		0.50	0.074	ug/L			04/22/14 04:14	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/22/14 04:14	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/22/14 04:14	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/22/14 04:14	1
Bromoform	<0.28		1.0	0.28	ug/L			04/22/14 04:14	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/22/14 04:14	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/22/14 04:14	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/22/14 04:14	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/22/14 04:14	1
Chloroform	<0.20		1.0	0.20	ug/L			04/22/14 04:14	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/22/14 04:14	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/22/14 04:14	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/22/14 04:14	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/22/14 04:14	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/22/14 04:14	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/22/14 04:14	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/22/14 04:14	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/22/14 04:14	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/22/14 04:14	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 04:14	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/22/14 04:14	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/22/14 04:14	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/22/14 04:14	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 04:14	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 04:14	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/22/14 04:14	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/22/14 04:14	1
Styrene	<0.10		1.0	0.10	ug/L			04/22/14 04:14	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 04:14	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: MW-9D
Date Collected: 04/16/14 10:08
Date Received: 04/17/14 09:30

Lab Sample ID: 500-75262-17
Matrix: Water

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			04/22/14 04:14	1
Toluene	<0.11		0.50	0.11	ug/L			04/22/14 04:14	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/22/14 04:14	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/22/14 04:14	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/22/14 04:14	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/22/14 04:14	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/22/14 04:14	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/22/14 04:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		75 - 125					04/22/14 04:14	1
4-Bromofluorobenzene (Surr)	97		75 - 120					04/22/14 04:14	1
Dibromofluoromethane	100		75 - 120					04/22/14 04:14	1
Toluene-d8 (Surr)	90		75 - 120					04/22/14 04:14	1

Definitions/Glossary

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

TestAmerica Job ID: 500-75262-1

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

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
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: 500-75262-1

GC/MS VOA

Analysis Batch: 232389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-75262-1	Trip Blank	Total/NA	Water	8260B	
500-75262-2	MP-13 (163-167)	Total/NA	Water	8260B	
500-75262-2 - DL	MP-13 (163-167)	Total/NA	Water	8260B	
500-75262-3	MP-13 (135-139)	Total/NA	Water	8260B	
500-75262-3 - DL	MP-13 (135-139)	Total/NA	Water	8260B	
500-75262-4	MP-13 (121-125)	Total/NA	Water	8260B	
500-75262-4 - DL	MP-13 (121-125)	Total/NA	Water	8260B	
500-75262-5	MP-13 (102-106)	Total/NA	Water	8260B	
500-75262-5 - DL	MP-13 (102-106)	Total/NA	Water	8260B	
500-75262-6	MP-13 (81-85)	Total/NA	Water	8260B	
500-75262-6 - DL	MP-13 (81-85)	Total/NA	Water	8260B	
500-75262-11	MW-5D3	Total/NA	Water	8260B	
500-75262-12	MW-3D3	Total/NA	Water	8260B	
500-75262-12 MS	MW-3D3	Total/NA	Water	8260B	
500-75262-12 MSD	MW-3D3	Total/NA	Water	8260B	
LCS 500-232389/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-232389/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 232441

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-75262-7	MP-13 (67-71)	Total/NA	Water	8260B	
500-75262-7 - DL	MP-13 (67-71)	Total/NA	Water	8260B	
500-75262-8	MP-13 (44-48)	Total/NA	Water	8260B	
500-75262-8 - DL	MP-13 (44-48)	Total/NA	Water	8260B	
500-75262-9	DUP-4	Total/NA	Water	8260B	
500-75262-9 - DL	DUP-4	Total/NA	Water	8260B	
500-75262-10	MW-3D2	Total/NA	Water	8260B	
500-75262-10 - DL	MW-3D2	Total/NA	Water	8260B	
500-75262-13	DUP-3	Total/NA	Water	8260B	
500-75262-13 - DL	DUP-3	Total/NA	Water	8260B	
500-75262-14	MW-9D2	Total/NA	Water	8260B	
500-75262-14 MS	MW-9D2	Total/NA	Water	8260B	
500-75262-14 MSD	MW-9D2	Total/NA	Water	8260B	
500-75262-15	MW-3S	Total/NA	Water	8260B	
500-75262-16	MW-3S Quenched	Total/NA	Water	8260B	
500-75262-17	MW-9D	Total/NA	Water	8260B	
LCS 500-232441/29	Lab Control Sample	Total/NA	Water	8260B	
MB 500-232441/6	Method Blank	Total/NA	Water	8260B	

Surrogate Summary

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

TestAmerica Job ID: 500-75262-1

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)
500-75262-1	Trip Blank	115	97	94	90
500-75262-2	MP-13 (163-167)	113	99	95	88
500-75262-2 - DL	MP-13 (163-167)	113	97	95	91
500-75262-3	MP-13 (135-139)	113	101	97	87
500-75262-3 - DL	MP-13 (135-139)	117	96	95	88
500-75262-4	MP-13 (121-125)	113	100	96	90
500-75262-4 - DL	MP-13 (121-125)	113	97	96	90
500-75262-5	MP-13 (102-106)	115	100	95	88
500-75262-5 - DL	MP-13 (102-106)	117	99	97	89
500-75262-6	MP-13 (81-85)	114	97	98	89
500-75262-6 - DL	MP-13 (81-85)	112	97	97	89
500-75262-7	MP-13 (67-71)	116	99	98	90
500-75262-7 - DL	MP-13 (67-71)	113	100	99	88
500-75262-8 - DL	MP-13 (44-48)	112	100	97	91
500-75262-8	MP-13 (44-48)	113	99	96	91
500-75262-9	DUP-4	111	97	97	89
500-75262-9 - DL	DUP-4	112	101	96	91
500-75262-10	MW-3D2	114	104	97	89
500-75262-10 - DL	MW-3D2	111	98	95	92
500-75262-11	MW-5D3	111	96	96	91
500-75262-12	MW-3D3	112	93	97	89
500-75262-12 MS	MW-3D3	108	96	94	90
500-75262-12 MSD	MW-3D3	112	96	98	91
500-75262-13	DUP-3	113	97	100	91
500-75262-13 - DL	DUP-3	112	97	98	90
500-75262-14	MW-9D2	114	99	98	88
500-75262-14 MS	MW-9D2	111	98	101	90
500-75262-14 MSD	MW-9D2	111	100	98	92
500-75262-15	MW-3S	115	100	100	89
500-75262-16	MW-3S Quenched	115	102	96	89
500-75262-17	MW-9D	115	97	100	90
LCS 500-232389/4	Lab Control Sample	110	99	97	92
LCS 500-232441/29	Lab Control Sample	102	94	91	91
MB 500-232389/6	Method Blank	113	99	97	90
MB 500-232441/6	Method Blank	114	94	103	88

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: 500-75262-1

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

Lab Sample ID: MB 500-232389/6

Matrix: Water

Analysis Batch: 232389

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			04/21/14 11:08	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/21/14 11:08	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/21/14 11:08	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/21/14 11:08	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/21/14 11:08	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/21/14 11:08	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/21/14 11:08	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/21/14 11:08	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/21/14 11:08	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/21/14 11:08	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/21/14 11:08	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/21/14 11:08	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/21/14 11:08	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/21/14 11:08	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/21/14 11:08	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/21/14 11:08	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/21/14 11:08	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/21/14 11:08	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/21/14 11:08	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/21/14 11:08	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/21/14 11:08	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/21/14 11:08	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/21/14 11:08	1
Benzene	<0.074		0.50	0.074	ug/L			04/21/14 11:08	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/21/14 11:08	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/21/14 11:08	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/21/14 11:08	1
Bromoform	<0.28		1.0	0.28	ug/L			04/21/14 11:08	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/21/14 11:08	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/21/14 11:08	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/21/14 11:08	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/21/14 11:08	1
Chloroform	<0.20		1.0	0.20	ug/L			04/21/14 11:08	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/21/14 11:08	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/21/14 11:08	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/21/14 11:08	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/21/14 11:08	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/21/14 11:08	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/21/14 11:08	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/21/14 11:08	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/21/14 11:08	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/21/14 11:08	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/21/14 11:08	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/21/14 11:08	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/21/14 11:08	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/21/14 11:08	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/21/14 11:08	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/21/14 11:08	1

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: MB 500-232389/6

Matrix: Water

Analysis Batch: 232389

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			04/21/14 11:08	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/21/14 11:08	1
Styrene	<0.10		1.0	0.10	ug/L			04/21/14 11:08	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/21/14 11:08	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/21/14 11:08	1
Toluene	<0.11		0.50	0.11	ug/L			04/21/14 11:08	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/21/14 11:08	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/21/14 11:08	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/21/14 11:08	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/21/14 11:08	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/21/14 11:08	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/21/14 11:08	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	113		75 - 125		04/21/14 11:08	1
4-Bromofluorobenzene (Surr)	99		75 - 120		04/21/14 11:08	1
Dibromofluoromethane	97		75 - 120		04/21/14 11:08	1
Toluene-d8 (Surr)	90		75 - 120		04/21/14 11:08	1

Lab Sample ID: LCS 500-232389/4

Matrix: Water

Analysis Batch: 232389

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	54.5		ug/L		109	75 - 122
1,1,1-Trichloroethane	50.0	57.4		ug/L		115	72 - 130
1,1,2,2-Tetrachloroethane	50.0	53.4		ug/L		107	72 - 130
1,1,2-Trichloroethane	50.0	51.3		ug/L		103	75 - 120
1,1-Dichloroethane	50.0	56.8		ug/L		114	75 - 120
1,1-Dichloroethene	50.0	51.2		ug/L		102	69 - 120
1,1-Dichloropropene	50.0	54.9		ug/L		110	75 - 130
1,2,3-Trichlorobenzene	50.0	59.4		ug/L		119	69 - 131
1,2,3-Trichloropropane	50.0	42.8		ug/L		86	65 - 132
1,2,4-Trichlorobenzene	50.0	59.6		ug/L		119	73 - 130
1,2,4-Trimethylbenzene	50.0	56.6		ug/L		113	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	60.5		ug/L		121	62 - 130
1,2-Dibromoethane	50.0	51.3		ug/L		103	78 - 122
1,2-Dichlorobenzene	50.0	57.7		ug/L		115	75 - 120
1,2-Dichloroethane	50.0	61.4		ug/L		123	69 - 130
1,2-Dichloropropane	50.0	53.0		ug/L		106	75 - 120
1,3,5-Trimethylbenzene	50.0	57.4		ug/L		115	75 - 121
1,3-Dichlorobenzene	50.0	56.8		ug/L		114	75 - 120
1,3-Dichloropropane	50.0	51.9		ug/L		104	77 - 124
1,4-Dichlorobenzene	50.0	55.8		ug/L		112	75 - 120
2,2-Dichloropropane	50.0	50.8		ug/L		102	65 - 132
2-Chlorotoluene	50.0	57.5		ug/L		115	75 - 120
4-Chlorotoluene	50.0	57.8		ug/L		116	75 - 120
Benzene	50.0	50.1		ug/L		100	75 - 120

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: LCS 500-232389/4

Matrix: Water

Analysis Batch: 232389

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	53.6		ug/L		107	75 - 120
Bromochloromethane	50.0	52.9		ug/L		106	76 - 120
Bromodichloromethane	50.0	53.7		ug/L		107	77 - 121
Bromoform	50.0	54.8		ug/L		110	68 - 126
Bromomethane	50.0	38.9		ug/L		78	45 - 169
Carbon tetrachloride	50.0	57.3		ug/L		115	70 - 130
Chlorobenzene	50.0	49.8		ug/L		100	75 - 120
Chloroethane	50.0	43.2		ug/L		86	58 - 147
Chloroform	50.0	53.4		ug/L		107	76 - 120
Chloromethane	50.0	55.1		ug/L		110	63 - 133
cis-1,2-Dichloroethene	50.0	52.8		ug/L		106	75 - 120
cis-1,3-Dichloropropene	50.0	51.1		ug/L		102	78 - 121
Dibromochloromethane	50.0	51.3		ug/L		103	71 - 126
Dibromomethane	50.0	52.2		ug/L		104	75 - 120
Dichlorodifluoromethane	50.0	51.1		ug/L		102	41 - 146
Ethylbenzene	50.0	49.4		ug/L		99	75 - 120
Hexachlorobutadiene	50.0	59.5		ug/L		119	71 - 131
Isopropylbenzene	50.0	55.6		ug/L		111	75 - 121
Methyl tert-butyl ether	50.0	51.3		ug/L		103	75 - 130
Methylene Chloride	50.0	46.3		ug/L		93	73 - 130
Naphthalene	50.0	59.4		ug/L		119	69 - 135
n-Butylbenzene	50.0	58.1		ug/L		116	75 - 121
N-Propylbenzene	50.0	57.0		ug/L		114	75 - 120
p-Isopropyltoluene	50.0	58.7		ug/L		117	75 - 121
sec-Butylbenzene	50.0	56.2		ug/L		112	75 - 120
Styrene	50.0	51.2		ug/L		102	75 - 120
tert-Butylbenzene	50.0	58.5		ug/L		117	75 - 123
Tetrachloroethene	50.0	51.4		ug/L		103	75 - 120
Toluene	50.0	51.4		ug/L		103	75 - 120
trans-1,2-Dichloroethene	50.0	52.6		ug/L		105	77 - 120
trans-1,3-Dichloropropene	50.0	56.1		ug/L		112	74 - 123
Trichloroethene	50.0	55.5		ug/L		111	75 - 120
Trichlorofluoromethane	50.0	52.4		ug/L		105	71 - 130
Vinyl chloride	50.0	50.7		ug/L		101	72 - 123
Xylenes, Total	100	108		ug/L		108	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	110		75 - 125
4-Bromofluorobenzene (Surr)	99		75 - 120
Dibromofluoromethane	97		75 - 120
Toluene-d8 (Surr)	92		75 - 120

Lab Sample ID: 500-75262-12 MS

Matrix: Water

Analysis Batch: 232389

Client Sample ID: MW-3D3

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	52.0		ug/L		104	75 - 122

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: 500-75262-12 MS

Matrix: Water

Analysis Batch: 232389

Client Sample ID: MW-3D3

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier			Limits	
1,1,1-Trichloroethane	<0.20		50.0	58.9		ug/L		118	72 - 130
1,1,2,2-Tetrachloroethane	<0.23		50.0	52.4		ug/L		105	72 - 130
1,1,2-Trichloroethane	<0.28		50.0	51.4		ug/L		103	75 - 120
1,1-Dichloroethane	<0.19		50.0	56.7		ug/L		113	75 - 120
1,1-Dichloroethene	<0.31		50.0	52.2		ug/L		104	69 - 120
1,1-Dichloropropene	<0.34		50.0	53.1		ug/L		106	75 - 130
1,2,3-Trichlorobenzene	<0.24		50.0	61.3		ug/L		123	69 - 131
1,2,3-Trichloropropane	<0.45		50.0	41.0		ug/L		82	65 - 132
1,2,4-Trichlorobenzene	<0.31		50.0	60.2		ug/L		120	73 - 130
1,2,4-Trimethylbenzene	<0.14		50.0	56.7		ug/L		113	75 - 121
1,2-Dibromo-3-Chloropropane	<0.87		50.0	57.5		ug/L		115	62 - 130
1,2-Dibromoethane	<0.36		50.0	49.6		ug/L		99	78 - 122
1,2-Dichlorobenzene	<0.27		50.0	58.2		ug/L		116	75 - 120
1,2-Dichloroethane	<0.28		50.0	62.3		ug/L		125	69 - 130
1,2-Dichloropropane	<0.20		50.0	56.3		ug/L		113	75 - 120
1,3,5-Trimethylbenzene	<0.18		50.0	58.0		ug/L		116	75 - 121
1,3-Dichlorobenzene	<0.15		50.0	56.0		ug/L		112	75 - 120
1,3-Dichloropropane	<0.13		50.0	52.1		ug/L		104	77 - 124
1,4-Dichlorobenzene	<0.15		50.0	54.7		ug/L		109	75 - 120
2,2-Dichloropropane	<0.32		50.0	51.5		ug/L		103	65 - 132
2-Chlorotoluene	<0.21		50.0	57.3		ug/L		115	75 - 120
4-Chlorotoluene	<0.20		50.0	56.6		ug/L		113	75 - 120
Benzene	<0.074		50.0	50.8		ug/L		102	75 - 120
Bromobenzene	<0.25		50.0	54.4		ug/L		109	75 - 120
Bromochloromethane	<0.40		50.0	53.4		ug/L		107	76 - 120
Bromodichloromethane	<0.17		50.0	56.5		ug/L		113	77 - 121
Bromoform	<0.28		50.0	51.9		ug/L		104	68 - 126
Bromomethane	<0.31		50.0	40.8		ug/L		82	45 - 169
Carbon tetrachloride	<0.26		50.0	57.4		ug/L		115	70 - 130
Chlorobenzene	<0.14		50.0	49.3		ug/L		99	75 - 120
Chloroethane	<0.34		50.0	46.9		ug/L		94	58 - 147
Chloroform	<0.20		50.0	53.5		ug/L		107	76 - 120
Chloromethane	<0.18		50.0	58.0		ug/L		116	63 - 133
cis-1,2-Dichloroethene	<0.12		50.0	52.9		ug/L		106	75 - 120
cis-1,3-Dichloropropene	<0.18		50.0	48.4		ug/L		97	78 - 121
Dibromochloromethane	<0.32		50.0	51.2		ug/L		102	71 - 126
Dibromomethane	<0.33		50.0	55.2		ug/L		110	75 - 120
Dichlorodifluoromethane	<0.20		50.0	54.2		ug/L		108	41 - 146
Ethylbenzene	<0.13		50.0	49.1		ug/L		98	75 - 120
Hexachlorobutadiene	<0.26		50.0	60.2		ug/L		120	71 - 131
Isopropylbenzene	<0.14		50.0	56.7		ug/L		113	75 - 121
Methyl tert-butyl ether	<0.24		50.0	52.4		ug/L		105	75 - 130
Methylene Chloride	<0.68		50.0	47.8		ug/L		96	73 - 130
Naphthalene	<0.16		50.0	60.1		ug/L		120	69 - 135
n-Butylbenzene	<0.13		50.0	56.9		ug/L		114	75 - 121
N-Propylbenzene	<0.13		50.0	57.6		ug/L		115	75 - 120
p-Isopropyltoluene	<0.17		50.0	58.6		ug/L		117	75 - 121
sec-Butylbenzene	<0.15		50.0	57.2		ug/L		114	75 - 120

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: 500-75262-12 MS

Matrix: Water

Analysis Batch: 232389

Client Sample ID: MW-3D3

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	49.9		ug/L		100	75 - 120
tert-Butylbenzene	<0.14		50.0	58.9		ug/L		118	75 - 123
Tetrachloroethene	<0.17		50.0	51.2		ug/L		102	75 - 120
Toluene	<0.11		50.0	51.4		ug/L		103	75 - 120
trans-1,2-Dichloroethene	<0.25		50.0	52.4		ug/L		105	77 - 120
trans-1,3-Dichloropropene	<0.21		50.0	55.5		ug/L		111	74 - 123
Trichloroethene	<0.19		50.0	54.9		ug/L		110	75 - 120
Trichlorofluoromethane	<0.19		50.0	53.7		ug/L		107	71 - 130
Vinyl chloride	<0.10		50.0	52.6		ug/L		105	72 - 123
Xylenes, Total	<0.068		100	107		ug/L		107	75 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		75 - 125
4-Bromofluorobenzene (Surr)	96		75 - 120
Dibromofluoromethane	94		75 - 120
Toluene-d8 (Surr)	90		75 - 120

Lab Sample ID: 500-75262-12 MSD

Matrix: Water

Analysis Batch: 232389

Client Sample ID: MW-3D3

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	57.8		ug/L		116	75 - 122	11	20
1,1,1-Trichloroethane	<0.20		50.0	63.5		ug/L		127	72 - 130	8	20
1,1,1,2-Tetrachloroethane	<0.23		50.0	53.9		ug/L		108	72 - 130	3	20
1,1,2-Trichloroethane	<0.28		50.0	52.0		ug/L		104	75 - 120	1	20
1,1-Dichloroethane	<0.19		50.0	61.3	F1	ug/L		123	75 - 120	8	20
1,1-Dichloroethene	<0.31		50.0	55.8		ug/L		112	69 - 120	7	20
1,1-Dichloropropene	<0.34		50.0	56.7		ug/L		113	75 - 130	7	20
1,2,3-Trichlorobenzene	<0.24		50.0	63.2		ug/L		126	69 - 131	3	20
1,2,3-Trichloropropane	<0.45		50.0	41.3		ug/L		83	65 - 132	1	20
1,2,4-Trichlorobenzene	<0.31		50.0	63.8		ug/L		128	73 - 130	6	20
1,2,4-Trimethylbenzene	<0.14		50.0	58.7		ug/L		117	75 - 121	4	20
1,2-Dibromo-3-Chloropropane	<0.87		50.0	65.3	F1	ug/L		131	62 - 130	13	20
1,2-Dibromoethane	<0.36		50.0	52.1		ug/L		104	78 - 122	5	20
1,2-Dichlorobenzene	<0.27		50.0	61.6	F1	ug/L		123	75 - 120	6	20
1,2-Dichloroethane	<0.28		50.0	64.4		ug/L		129	69 - 130	3	20
1,2-Dichloropropane	<0.20		50.0	58.2		ug/L		116	75 - 120	3	20
1,3,5-Trimethylbenzene	<0.18		50.0	59.9		ug/L		120	75 - 121	3	20
1,3-Dichlorobenzene	<0.15		50.0	58.5		ug/L		117	75 - 120	4	20
1,3-Dichloropropane	<0.13		50.0	53.0		ug/L		106	77 - 124	2	20
1,4-Dichlorobenzene	<0.15		50.0	57.3		ug/L		115	75 - 120	5	20
2,2-Dichloropropane	<0.32		50.0	55.5		ug/L		111	65 - 132	7	20
2-Chlorotoluene	<0.21		50.0	59.2		ug/L		118	75 - 120	3	20
4-Chlorotoluene	<0.20		50.0	57.6		ug/L		115	75 - 120	2	20
Benzene	<0.074		50.0	52.7		ug/L		105	75 - 120	4	20
Bromobenzene	<0.25		50.0	55.2		ug/L		110	75 - 120	1	20
Bromochloromethane	<0.40		50.0	58.7		ug/L		117	76 - 120	9	20

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: 500-75262-12 MSD

Matrix: Water

Analysis Batch: 232389

Client Sample ID: MW-3D3

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	56.9		ug/L		114	77 - 121	1	20
Bromoform	<0.28		50.0	54.7		ug/L		109	68 - 126	5	20
Bromomethane	<0.31		50.0	46.0		ug/L		92	45 - 169	12	20
Carbon tetrachloride	<0.26		50.0	62.4		ug/L		125	70 - 130	8	20
Chlorobenzene	<0.14		50.0	51.1		ug/L		102	75 - 120	4	20
Chloroethane	<0.34		50.0	51.6		ug/L		103	58 - 147	10	20
Chloroform	<0.20		50.0	57.7		ug/L		115	76 - 120	8	20
Chloromethane	<0.18		50.0	63.0		ug/L		126	63 - 133	8	20
cis-1,2-Dichloroethene	<0.12		50.0	56.2		ug/L		112	75 - 120	6	20
cis-1,3-Dichloropropene	<0.18		50.0	49.9		ug/L		100	78 - 121	3	20
Dibromochloromethane	<0.32		50.0	53.3		ug/L		107	71 - 126	4	20
Dibromomethane	<0.33		50.0	55.1		ug/L		110	75 - 120	0	20
Dichlorodifluoromethane	<0.20		50.0	57.1		ug/L		114	41 - 146	5	20
Ethylbenzene	<0.13		50.0	51.7		ug/L		103	75 - 120	5	20
Hexachlorobutadiene	<0.26		50.0	64.6		ug/L		129	71 - 131	7	20
Isopropylbenzene	<0.14		50.0	57.8		ug/L		116	75 - 121	2	20
Methyl tert-butyl ether	<0.24		50.0	56.8		ug/L		114	75 - 130	8	20
Methylene Chloride	<0.68		50.0	51.4		ug/L		103	73 - 130	7	20
Naphthalene	<0.16		50.0	65.2		ug/L		130	69 - 135	8	20
n-Butylbenzene	<0.13		50.0	59.7		ug/L		119	75 - 121	5	20
N-Propylbenzene	<0.13		50.0	58.0		ug/L		116	75 - 120	1	20
p-Isopropyltoluene	<0.17		50.0	60.7		ug/L		121	75 - 121	3	20
sec-Butylbenzene	<0.15		50.0	58.9		ug/L		118	75 - 120	3	20
Styrene	<0.10		50.0	52.6		ug/L		105	75 - 120	5	20
tert-Butylbenzene	<0.14		50.0	61.1		ug/L		122	75 - 123	4	20
Tetrachloroethene	<0.17		50.0	53.0		ug/L		106	75 - 120	3	20
Toluene	<0.11		50.0	52.4		ug/L		105	75 - 120	2	20
trans-1,2-Dichloroethene	<0.25		50.0	57.2		ug/L		114	77 - 120	9	20
trans-1,3-Dichloropropene	<0.21		50.0	56.5		ug/L		113	74 - 123	2	20
Trichloroethene	<0.19		50.0	58.5		ug/L		117	75 - 120	6	20
Trichlorofluoromethane	<0.19		50.0	57.7		ug/L		115	71 - 130	7	20
Vinyl chloride	<0.10		50.0	56.9		ug/L		114	72 - 123	8	20
Xylenes, Total	<0.068		100	112		ug/L		112	75 - 120	5	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	112		75 - 125
4-Bromofluorobenzene (Surr)	96		75 - 120
Dibromofluoromethane	98		75 - 120
Toluene-d8 (Surr)	91		75 - 120

Lab Sample ID: MB 500-232441/6

Matrix: Water

Analysis Batch: 232441

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			04/21/14 22:21	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/21/14 22:21	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/21/14 22:21	1

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: MB 500-232441/6

Matrix: Water

Analysis Batch: 232441

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			04/21/14 22:21	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/21/14 22:21	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/21/14 22:21	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/21/14 22:21	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/21/14 22:21	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/21/14 22:21	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/21/14 22:21	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/21/14 22:21	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/21/14 22:21	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/21/14 22:21	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/21/14 22:21	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/21/14 22:21	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/21/14 22:21	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/21/14 22:21	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/21/14 22:21	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/21/14 22:21	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/21/14 22:21	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/21/14 22:21	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/21/14 22:21	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/21/14 22:21	1
Benzene	<0.074		0.50	0.074	ug/L			04/21/14 22:21	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/21/14 22:21	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/21/14 22:21	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/21/14 22:21	1
Bromoform	<0.28		1.0	0.28	ug/L			04/21/14 22:21	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/21/14 22:21	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/21/14 22:21	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/21/14 22:21	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/21/14 22:21	1
Chloroform	<0.20		1.0	0.20	ug/L			04/21/14 22:21	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/21/14 22:21	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/21/14 22:21	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/21/14 22:21	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/21/14 22:21	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/21/14 22:21	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/21/14 22:21	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/21/14 22:21	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/21/14 22:21	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/21/14 22:21	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/21/14 22:21	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/21/14 22:21	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/21/14 22:21	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/21/14 22:21	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/21/14 22:21	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/21/14 22:21	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/21/14 22:21	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/21/14 22:21	1
Styrene	<0.10		1.0	0.10	ug/L			04/21/14 22:21	1

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: MB 500-232441/6

Matrix: Water

Analysis Batch: 232441

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			04/21/14 22:21	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/21/14 22:21	1
Toluene	<0.11		0.50	0.11	ug/L			04/21/14 22:21	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/21/14 22:21	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/21/14 22:21	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/21/14 22:21	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/21/14 22:21	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/21/14 22:21	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/21/14 22:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 125		04/21/14 22:21	1
4-Bromofluorobenzene (Surr)	94		75 - 120		04/21/14 22:21	1
Dibromofluoromethane	103		75 - 120		04/21/14 22:21	1
Toluene-d8 (Surr)	88		75 - 120		04/21/14 22:21	1

Lab Sample ID: LCS 500-232441/29

Matrix: Water

Analysis Batch: 232441

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	50.0		ug/L		100	75 - 122
1,1,1-Trichloroethane	50.0	59.1		ug/L		118	72 - 130
1,1,1,2-Tetrachloroethane	50.0	45.7		ug/L		91	72 - 130
1,1,2-Trichloroethane	50.0	46.0		ug/L		92	75 - 120
1,1-Dichloroethane	50.0	52.7		ug/L		105	75 - 120
1,1-Dichloroethene	50.0	52.6		ug/L		105	69 - 120
1,1-Dichloropropene	50.0	51.6		ug/L		103	75 - 130
1,2,3-Trichlorobenzene	50.0	55.2		ug/L		110	69 - 131
1,2,3-Trichloropropane	50.0	36.5		ug/L		73	65 - 132
1,2,4-Trichlorobenzene	50.0	58.5		ug/L		117	73 - 130
1,2,4-Trimethylbenzene	50.0	56.2		ug/L		112	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	50.2		ug/L		100	62 - 130
1,2-Dibromoethane	50.0	45.3		ug/L		91	78 - 122
1,2-Dichlorobenzene	50.0	55.7		ug/L		111	75 - 120
1,2-Dichloroethane	50.0	54.7		ug/L		109	69 - 130
1,2-Dichloropropane	50.0	53.5		ug/L		107	75 - 120
1,3,5-Trimethylbenzene	50.0	57.6		ug/L		115	75 - 121
1,3-Dichlorobenzene	50.0	55.6		ug/L		111	75 - 120
1,3-Dichloropropane	50.0	47.2		ug/L		94	77 - 124
1,4-Dichlorobenzene	50.0	55.0		ug/L		110	75 - 120
2,2-Dichloropropane	50.0	54.7		ug/L		109	65 - 132
2-Chlorotoluene	50.0	56.3		ug/L		113	75 - 120
4-Chlorotoluene	50.0	56.6		ug/L		113	75 - 120
Benzene	50.0	48.1		ug/L		96	75 - 120
Bromobenzene	50.0	50.5		ug/L		101	75 - 120
Bromochloromethane	50.0	46.6		ug/L		93	76 - 120
Bromodichloromethane	50.0	51.6		ug/L		103	77 - 121

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: LCS 500-232441/29

Matrix: Water

Analysis Batch: 232441

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	45.8		ug/L		92	68 - 126
Bromomethane	50.0	47.8		ug/L		96	45 - 169
Carbon tetrachloride	50.0	58.0		ug/L		116	70 - 130
Chlorobenzene	50.0	48.7		ug/L		97	75 - 120
Chloroethane	50.0	48.9		ug/L		98	58 - 147
Chloroform	50.0	48.4		ug/L		97	76 - 120
Chloromethane	50.0	62.5		ug/L		125	63 - 133
cis-1,2-Dichloroethene	50.0	47.5		ug/L		95	75 - 120
cis-1,3-Dichloropropene	50.0	45.4		ug/L		91	78 - 121
Dibromochloromethane	50.0	47.3		ug/L		95	71 - 126
Dibromomethane	50.0	48.8		ug/L		98	75 - 120
Dichlorodifluoromethane	50.0	60.5		ug/L		121	41 - 146
Ethylbenzene	50.0	50.3		ug/L		101	75 - 120
Hexachlorobutadiene	50.0	60.1		ug/L		120	71 - 131
Isopropylbenzene	50.0	55.2		ug/L		110	75 - 121
Methyl tert-butyl ether	50.0	46.3		ug/L		93	75 - 130
Methylene Chloride	50.0	46.9		ug/L		94	73 - 130
Naphthalene	50.0	51.8		ug/L		104	69 - 135
n-Butylbenzene	50.0	59.9		ug/L		120	75 - 121
N-Propylbenzene	50.0	57.4		ug/L		115	75 - 120
p-Isopropyltoluene	50.0	59.8		ug/L		120	75 - 121
sec-Butylbenzene	50.0	57.2		ug/L		114	75 - 120
Styrene	50.0	49.6		ug/L		99	75 - 120
tert-Butylbenzene	50.0	57.1		ug/L		114	75 - 123
Tetrachloroethene	50.0	51.2		ug/L		102	75 - 120
Toluene	50.0	50.3		ug/L		101	75 - 120
trans-1,2-Dichloroethene	50.0	51.6		ug/L		103	77 - 120
trans-1,3-Dichloropropene	50.0	50.5		ug/L		101	74 - 123
Trichloroethene	50.0	54.6		ug/L		109	75 - 120
Trichlorofluoromethane	50.0	58.6		ug/L		117	71 - 130
Vinyl chloride	50.0	58.4		ug/L		117	72 - 123
Xylenes, Total	100	107		ug/L		107	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	102		75 - 125
4-Bromofluorobenzene (Surr)	94		75 - 120
Dibromofluoromethane	91		75 - 120
Toluene-d8 (Surr)	91		75 - 120

Lab Sample ID: 500-75262-14 MS

Matrix: Water

Analysis Batch: 232441

Client Sample ID: MW-9D2

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	56.7		ug/L		113	75 - 122
1,1,1-Trichloroethane	<0.20		50.0	61.1		ug/L		122	72 - 130
1,1,2,2-Tetrachloroethane	<0.23		50.0	53.3		ug/L		107	72 - 130
1,1,2-Trichloroethane	<0.28		50.0	52.0		ug/L		104	75 - 120

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: 500-75262-14 MS

Matrix: Water

Analysis Batch: 232441

Client Sample ID: MW-9D2

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier			Limits	Limits
1,1-Dichloroethane	<0.19		50.0	60.6	F1	ug/L		121	75 - 120
1,1-Dichloroethene	<0.31		50.0	54.1		ug/L		108	69 - 120
1,1-Dichloropropene	<0.34		50.0	55.4		ug/L		111	75 - 130
1,2,3-Trichlorobenzene	<0.24		50.0	61.1		ug/L		122	69 - 131
1,2,3-Trichloropropane	<0.45		50.0	43.2		ug/L		86	65 - 132
1,2,4-Trichlorobenzene	<0.31		50.0	57.9		ug/L		116	73 - 130
1,2,4-Trimethylbenzene	<0.14		50.0	57.4		ug/L		115	75 - 121
1,2-Dibromo-3-Chloropropane	<0.87		50.0	60.4		ug/L		121	62 - 130
1,2-Dibromoethane	<0.36		50.0	50.6		ug/L		101	78 - 122
1,2-Dichlorobenzene	<0.27		50.0	60.8	F1	ug/L		122	75 - 120
1,2-Dichloroethane	<0.28		50.0	63.6		ug/L		127	69 - 130
1,2-Dichloropropane	<0.20		50.0	55.8		ug/L		112	75 - 120
1,3,5-Trimethylbenzene	<0.18		50.0	59.0		ug/L		118	75 - 121
1,3-Dichlorobenzene	<0.15		50.0	57.4		ug/L		115	75 - 120
1,3-Dichloropropane	<0.13		50.0	51.8		ug/L		104	77 - 124
1,4-Dichlorobenzene	<0.15		50.0	55.9		ug/L		112	75 - 120
2,2-Dichloropropane	<0.32		50.0	51.0		ug/L		102	65 - 132
2-Chlorotoluene	<0.21		50.0	58.9		ug/L		118	75 - 120
4-Chlorotoluene	<0.20		50.0	57.6		ug/L		115	75 - 120
Benzene	<0.074		50.0	52.8		ug/L		106	75 - 120
Bromobenzene	<0.25		50.0	54.9		ug/L		110	75 - 120
Bromochloromethane	<0.40		50.0	56.2		ug/L		112	76 - 120
Bromodichloromethane	<0.17		50.0	56.8		ug/L		114	77 - 121
Bromoform	<0.28		50.0	52.9		ug/L		106	68 - 126
Bromomethane	<0.31		50.0	43.3		ug/L		87	45 - 169
Carbon tetrachloride	<0.26		50.0	60.0		ug/L		120	70 - 130
Chlorobenzene	<0.14		50.0	50.3		ug/L		101	75 - 120
Chloroethane	<0.34		50.0	48.8		ug/L		98	58 - 147
Chloroform	<0.20		50.0	58.2		ug/L		116	76 - 120
Chloromethane	<0.18		50.0	61.7		ug/L		123	63 - 133
cis-1,2-Dichloroethene	19		50.0	77.5		ug/L		116	75 - 120
cis-1,3-Dichloropropene	<0.18		50.0	49.0		ug/L		98	78 - 121
Dibromochloromethane	<0.32		50.0	52.2		ug/L		104	71 - 126
Dibromomethane	<0.33		50.0	55.4		ug/L		111	75 - 120
Dichlorodifluoromethane	<0.20		50.0	57.3		ug/L		115	41 - 146
Ethylbenzene	<0.13		50.0	49.9		ug/L		100	75 - 120
Hexachlorobutadiene	<0.26		50.0	59.8		ug/L		120	71 - 131
Isopropylbenzene	<0.14		50.0	57.1		ug/L		114	75 - 121
Methyl tert-butyl ether	9.6		50.0	65.4		ug/L		112	75 - 130
Methylene Chloride	<0.68		50.0	51.8		ug/L		104	73 - 130
Naphthalene	<0.16		50.0	62.4		ug/L		125	69 - 135
n-Butylbenzene	<0.13		50.0	56.3		ug/L		113	75 - 121
N-Propylbenzene	<0.13		50.0	57.0		ug/L		114	75 - 120
p-Isopropyltoluene	<0.17		50.0	59.0		ug/L		118	75 - 121
sec-Butylbenzene	<0.15		50.0	58.0		ug/L		116	75 - 120
Styrene	<0.10		50.0	51.4		ug/L		103	75 - 120
tert-Butylbenzene	<0.14		50.0	60.9		ug/L		122	75 - 123
Tetrachloroethene	26		50.0	76.5		ug/L		101	75 - 120

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: 500-75262-14 MS

Matrix: Water

Analysis Batch: 232441

Client Sample ID: MW-9D2

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits	
	Result	Qualifier	Added	Result	Qualifier					
Toluene	<0.11		50.0	52.3		ug/L		105	75 - 120	
trans-1,2-Dichloroethene	<0.25		50.0	56.1		ug/L		112	77 - 120	
trans-1,3-Dichloropropene	<0.21		50.0	53.3		ug/L		107	74 - 123	
Trichloroethene	6.5		50.0	64.1		ug/L		115	75 - 120	
Trichlorofluoromethane	<0.19		50.0	56.0		ug/L		112	71 - 130	
Vinyl chloride	<0.10		50.0	55.1		ug/L		110	72 - 123	
Xylenes, Total	<0.068		100	110		ug/L		110	75 - 120	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	111		75 - 125							
4-Bromofluorobenzene (Surr)	98		75 - 120							
Dibromofluoromethane	101		75 - 120							
Toluene-d8 (Surr)	90		75 - 120							

Lab Sample ID: 500-75262-14 MSD

Matrix: Water

Analysis Batch: 232441

Client Sample ID: MW-9D2

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	56.3		ug/L		113	75 - 122	1	20
1,1,1-Trichloroethane	<0.20		50.0	57.9		ug/L		116	72 - 130	5	20
1,1,1,2,2-Tetrachloroethane	<0.23		50.0	55.1		ug/L		110	72 - 130	3	20
1,1,2-Trichloroethane	<0.28		50.0	52.4		ug/L		105	75 - 120	1	20
1,1-Dichloroethane	<0.19		50.0	59.4		ug/L		119	75 - 120	2	20
1,1-Dichloroethene	<0.31		50.0	50.6		ug/L		101	69 - 120	7	20
1,1-Dichloropropene	<0.34		50.0	55.2		ug/L		110	75 - 130	0	20
1,2,3-Trichlorobenzene	<0.24		50.0	57.7		ug/L		115	69 - 131	6	20
1,2,3-Trichloropropane	<0.45		50.0	41.5		ug/L		83	65 - 132	4	20
1,2,4-Trichlorobenzene	<0.31		50.0	54.3		ug/L		109	73 - 130	7	20
1,2,4-Trimethylbenzene	<0.14		50.0	58.5		ug/L		117	75 - 121	2	20
1,2-Dibromo-3-Chloropropane	<0.87		50.0	57.9		ug/L		116	62 - 130	4	20
1,2-Dibromoethane	<0.36		50.0	52.5		ug/L		105	78 - 122	4	20
1,2-Dichlorobenzene	<0.27		50.0	60.2		ug/L		120	75 - 120	1	20
1,2-Dichloroethane	<0.28		50.0	64.8		ug/L		130	69 - 130	2	20
1,2-Dichloropropane	<0.20		50.0	58.2		ug/L		116	75 - 120	4	20
1,3,5-Trimethylbenzene	<0.18		50.0	59.8		ug/L		120	75 - 121	1	20
1,3-Dichlorobenzene	<0.15		50.0	58.0		ug/L		116	75 - 120	1	20
1,3-Dichloropropane	<0.13		50.0	53.5		ug/L		107	77 - 124	3	20
1,4-Dichlorobenzene	<0.15		50.0	56.9		ug/L		114	75 - 120	2	20
2,2-Dichloropropane	<0.32		50.0	45.9		ug/L		92	65 - 132	10	20
2-Chlorotoluene	<0.21		50.0	60.8	F1	ug/L		122	75 - 120	3	20
4-Chlorotoluene	<0.20		50.0	59.7		ug/L		119	75 - 120	3	20
Benzene	<0.074		50.0	53.0		ug/L		106	75 - 120	0	20
Bromobenzene	<0.25		50.0	58.3		ug/L		117	75 - 120	6	20
Bromochloromethane	<0.40		50.0	54.0		ug/L		108	76 - 120	4	20
Bromodichloromethane	<0.17		50.0	57.4		ug/L		115	77 - 121	1	20
Bromoform	<0.28		50.0	51.0		ug/L		102	68 - 126	4	20
Bromomethane	<0.31		50.0	40.2		ug/L		80	45 - 169	8	20

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: 500-75262-14 MSD

Matrix: Water

Analysis Batch: 232441

Client Sample ID: MW-9D2

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Carbon tetrachloride	<0.26		50.0	56.9		ug/L		114	70 - 130	5	20
Chlorobenzene	<0.14		50.0	51.2		ug/L		102	75 - 120	2	20
Chloroethane	<0.34		50.0	44.3		ug/L		89	58 - 147	10	20
Chloroform	<0.20		50.0	56.9		ug/L		114	76 - 120	2	20
Chloromethane	<0.18		50.0	57.1		ug/L		114	63 - 133	8	20
cis-1,2-Dichloroethene	19		50.0	73.3		ug/L		108	75 - 120	6	20
cis-1,3-Dichloropropene	<0.18		50.0	52.0		ug/L		104	78 - 121	6	20
Dibromochloromethane	<0.32		50.0	52.4		ug/L		105	71 - 126	0	20
Dibromomethane	<0.33		50.0	55.3		ug/L		111	75 - 120	0	20
Dichlorodifluoromethane	<0.20		50.0	51.3		ug/L		103	41 - 146	11	20
Ethylbenzene	<0.13		50.0	49.7		ug/L		99	75 - 120	1	20
Hexachlorobutadiene	<0.26		50.0	57.2		ug/L		114	71 - 131	4	20
Isopropylbenzene	<0.14		50.0	58.9		ug/L		118	75 - 121	3	20
Methyl tert-butyl ether	9.6		50.0	62.9		ug/L		107	75 - 130	4	20
Methylene Chloride	<0.68		50.0	49.5		ug/L		99	73 - 130	5	20
Naphthalene	<0.16		50.0	59.3		ug/L		119	69 - 135	5	20
n-Butylbenzene	<0.13		50.0	56.0		ug/L		112	75 - 121	1	20
N-Propylbenzene	<0.13		50.0	59.5		ug/L		119	75 - 120	4	20
p-Isopropyltoluene	<0.17		50.0	59.4		ug/L		119	75 - 121	1	20
sec-Butylbenzene	<0.15		50.0	58.5		ug/L		117	75 - 120	1	20
Styrene	<0.10		50.0	52.1		ug/L		104	75 - 120	1	20
tert-Butylbenzene	<0.14		50.0	62.3	F1	ug/L		125	75 - 123	2	20
Tetrachloroethene	26		50.0	77.4		ug/L		103	75 - 120	1	20
Toluene	<0.11		50.0	53.6		ug/L		107	75 - 120	3	20
trans-1,2-Dichloroethene	<0.25		50.0	52.7		ug/L		105	77 - 120	6	20
trans-1,3-Dichloropropene	<0.21		50.0	57.4		ug/L		115	74 - 123	7	20
Trichloroethene	6.5		50.0	63.8		ug/L		115	75 - 120	0	20
Trichlorofluoromethane	<0.19		50.0	52.3		ug/L		105	71 - 130	7	20
Vinyl chloride	<0.10		50.0	50.8		ug/L		102	72 - 123	8	20
Xylenes, Total	<0.068		100	110		ug/L		110	75 - 120	0	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	111		75 - 125
4-Bromofluorobenzene (Surr)	100		75 - 120
Dibromofluoromethane	98		75 - 120
Toluene-d8 (Surr)	92		75 - 120

Lab Chronicle

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-75262-1

Date Collected: 04/16/14 00:00

Matrix: Water

Date Received: 04/17/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232389	04/21/14 13:45	JLH	TAL CHI

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

Lab Sample ID: 500-75262-2

Date Collected: 04/16/14 09:40

Matrix: Water

Date Received: 04/17/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	232389	04/21/14 14:11	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	20	232389	04/21/14 14:37	JLH	TAL CHI

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

Lab Sample ID: 500-75262-3

Date Collected: 04/16/14 10:00

Matrix: Water

Date Received: 04/17/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	232389	04/21/14 15:03	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	100	232389	04/21/14 15:28	JLH	TAL CHI

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

Lab Sample ID: 500-75262-4

Date Collected: 04/16/14 10:20

Matrix: Water

Date Received: 04/17/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	232389	04/21/14 15:54	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	200	232389	04/21/14 16:19	JLH	TAL CHI

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

Lab Sample ID: 500-75262-5

Date Collected: 04/16/14 10:40

Matrix: Water

Date Received: 04/17/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	232389	04/21/14 16:45	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	50	232389	04/21/14 17:10	JLH	TAL CHI

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

Lab Sample ID: 500-75262-6

Date Collected: 04/16/14 11:00

Matrix: Water

Date Received: 04/17/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	232389	04/21/14 17:36	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	100	232389	04/21/14 18:01	JLH	TAL CHI

TestAmerica Chicago

Lab Chronicle

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

TestAmerica Job ID: 500-75262-1

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

Lab Sample ID: 500-75262-7

Date Collected: 04/16/14 11:20

Matrix: Water

Date Received: 04/17/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	232441	04/21/14 23:37	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	50	232441	04/22/14 00:02	JLH	TAL CHI

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

Lab Sample ID: 500-75262-8

Date Collected: 04/16/14 11:35

Matrix: Water

Date Received: 04/17/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	232441	04/22/14 00:27	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	20	232441	04/22/14 00:53	JLH	TAL CHI

Client Sample ID: DUP-4

Lab Sample ID: 500-75262-9

Date Collected: 04/16/14 00:00

Matrix: Water

Date Received: 04/17/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	232441	04/22/14 01:18	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	200	232441	04/22/14 01:43	JLH	TAL CHI

Client Sample ID: MW-3D2

Lab Sample ID: 500-75262-10

Date Collected: 04/16/14 16:10

Matrix: Water

Date Received: 04/17/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	232441	04/22/14 02:08	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	50	232441	04/22/14 02:33	JLH	TAL CHI

Client Sample ID: MW-5D3

Lab Sample ID: 500-75262-11

Date Collected: 04/16/14 12:30

Matrix: Water

Date Received: 04/17/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232389	04/21/14 18:27	JLH	TAL CHI

Client Sample ID: MW-3D3

Lab Sample ID: 500-75262-12

Date Collected: 04/16/14 16:05

Matrix: Water

Date Received: 04/17/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232389	04/21/14 18:52	JLH	TAL CHI

TestAmerica Chicago

Lab Chronicle

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

TestAmerica Job ID: 500-75262-1

Client Sample ID: DUP-3

Lab Sample ID: 500-75262-13

Date Collected: 04/16/14 16:10

Matrix: Water

Date Received: 04/17/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	232441	04/22/14 02:58	JLH	TAL CHI
Total/NA	Analysis	8260B	DL	50	232441	04/22/14 03:23	JLH	TAL CHI

Client Sample ID: MW-9D2

Lab Sample ID: 500-75262-14

Date Collected: 04/16/14 10:22

Matrix: Water

Date Received: 04/17/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232441	04/22/14 03:48	JLH	TAL CHI

Client Sample ID: MW-3S

Lab Sample ID: 500-75262-15

Date Collected: 04/16/14 13:07

Matrix: Water

Date Received: 04/17/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	232441	04/22/14 06:20	JLH	TAL CHI

Client Sample ID: MW-3S Quenched

Lab Sample ID: 500-75262-16

Date Collected: 04/16/14 13:10

Matrix: Water

Date Received: 04/17/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	232441	04/22/14 06:45	JLH	TAL CHI

Client Sample ID: MW-9D

Lab Sample ID: 500-75262-17

Date Collected: 04/16/14 10:08

Matrix: Water

Date Received: 04/17/14 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232441	04/22/14 04:14	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: 500-75262-1

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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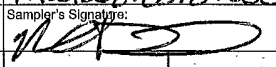

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ID#: _____

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order # 500-75262

Send Results to:	Contact & Company Name: <u>Jim Alessi ARCADIS</u>		Telephone: <u>414.276.7742</u>		Preservative <u>B</u>																	
	Address: <u>126 N. Jefferson St #400</u>		Fax: <u>414.276.7603</u>		Filtered (✓)																	
	City State Zip <u>Milwaukee WI 53202</u>		E-mail Address: <u>tim.alessi@arcadis-us.com</u>		# of Containers <u>3</u>																	
Project Name/Location (City, State): <u>MKE (Madison, WI)</u>		Project #: <u>W1001368.0018.00002</u>		PARAMETER ANALYSIS & METHOD																		
Sampler's Printed Name: <u>Nicole Duda</u>		Sampler's Signature: 		 500-75262 COC																		
Sample ID		Collection																			Type (✓)	
	Date	Time	Comp	Grab																		
1																						
2																						
3																						
4																						
5																						
6																						
7																						
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11																						
12																						
13																						
14																						

Keys

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


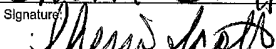
Container Information Key:
 1. 40 ml Vial
 2. 1 L Amber
 3. 250 ml Plastic
 4. 500 ml Plastic
 5. Encore
 6. 2 oz. Glass
 7. 4 oz. Glass
 8. 8 oz. Glass
 9. Other: _____
 10. Other: _____

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

REMARKS

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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: <u>Test America</u>	Cooler Custody Seal (✓) <input type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: <u>Nicole Duda</u>	Signature: 	Printed Name:	Signature:	Printed Name:	Signature:	Printed Name: <u>Sherri Scott</u>	Signature: 
Specify Turnaround Requirements: <u>Standard</u>	Sample Receipt:	Firm: <u>ARCADIS</u>	Date/Time: <u>4/16/14</u>	Firm/Courier:	Date/Time:	Firm/Courier:	Date/Time:	Firm: <u>TA-CHE</u>	Date/Time: <u>4/17/14 0930</u>
Shipping Tracking #:	Condition/Cooler Temp: <u>3,3</u>								

ID#: _____

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order # 500-75262

Send Results to:	Contact & Company Name: <u>Tim Alessi ARCADIS</u>	Telephone: <u>414.276.7742</u>	Preservative: <u>B</u>								
	Address: <u>126 N Wisconsin St #400</u>	Fax: <u>414.276.7103</u>	- Filtered (✓)								
	City State Zip: <u>Milwaukee WI 53202</u>	E-mail Address: <u>tim.alessi@arcadisus.com</u>	# 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: _____

Sample ID	Collection		Type (✓)		Matrix	VOCs	Method 8210	PARAMETER ANALYSIS & METHOD										REMARKS							
	Date	Time	Comp	Grab																					
	<u>15 MW-33</u>	<u>4/16/14</u>	<u>1307</u>					✓	<u>W</u>	<u>3</u>															
<u>16 MW-35 Quorched</u>	<u>4/16/14</u>	<u>1310</u>		✓	<u>W</u>	<u>3</u>																			
<u>17 MW-9D</u>	<u>4/14/14</u>	<u>1008</u>		✓	<u>W</u>	<u>3</u>																			

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 type="checkbox"/> Intact <input type="checkbox"/> Not Intact	Printed Name: <u>Maureen O'Brien</u>	Signature: <u>Maureen O'Brien</u>	Printed Name:	Signature:	Printed Name:	Signature:	Printed Name: <u>Sherril Scott</u>	Signature: <u>Sherril Scott</u>
Specify Turnaround Requirements: <u>Standard</u>	Sample Receipt:	Firm: <u>ARCADIS</u>	Date/Time: <u>4/16/14</u>	Firm/Courier:	Date/Time:	Firm/Courier:	Date/Time:	Firm: <u>TA-CHT</u>	Date/Time: <u>4/17/14 0930</u>
Shipping Tracking #:	Condition/Cooler Temp: <u>3/3</u>								

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-75262-1

Login Number: 75262

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	3.3
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	
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: 500-75363-1
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:
4/23/2014 3:31:56 PM

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: 500-75363-1

Job ID: 500-75363-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-75363-1

Comments

No additional comments.

Receipt

The samples were received on 4/18/2014 9:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° C.

GC/MS VOA

Method(s) 8260B: Surrogate recovery for the following samples was outside control limits: DUP-1 (500-75363-11), MW-6D (500-75363-10). Evidence of matrix interference is present. Re-analysis was performed at a dilution for target compounds, with all surrogates meeting QC limits.

Method(s) 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: DUP-1 (500-75363-11), MW-19D (500-75363-4), MW-19D Quenched (500-75363-6), MW-19D2 (500-75363-5), MW-6D (500-75363-10). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.



Detection Summary

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-24

Lab Sample ID: 500-75363-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.8		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-2D

Lab Sample ID: 500-75363-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.5		0.50	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	450		10	1.7	ug/L	10		8260B	Total/NA

Client Sample ID: MW-2S

Lab Sample ID: 500-75363-3

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-19D

Lab Sample ID: 500-75363-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene - DL	910		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: MW-19D2

Lab Sample ID: 500-75363-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	330		5.0	0.60	ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	5.0		5.0	1.3	ug/L	5		8260B	Total/NA
Trichloroethene	170		2.5	0.95	ug/L	5		8260B	Total/NA
Vinyl chloride	7.9		2.5	0.50	ug/L	5		8260B	Total/NA
Tetrachloroethene - DL	1900		50	8.5	ug/L	50		8260B	Total/NA

Client Sample ID: MW-19D Quenched

Lab Sample ID: 500-75363-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	49		5.0	0.60	ug/L	5		8260B	Total/NA
Trichloroethene	68		2.5	0.95	ug/L	5		8260B	Total/NA
Tetrachloroethene - DL	1400		50	8.5	ug/L	50		8260B	Total/NA

Client Sample ID: MW-4D

Lab Sample ID: 500-75363-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.58	J	1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-4S

Lab Sample ID: 500-75363-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.9		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-4D2

Lab Sample ID: 500-75363-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.5		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-6D

Lab Sample ID: 500-75363-10

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: 500-75363-1

Client Sample ID: MW-6D (Continued)

Lab Sample ID: 500-75363-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	9.7		2.0	0.28	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	2.8		2.0	0.24	ug/L	2		8260B	Total/NA
Ethylbenzene	6.7		1.0	0.26	ug/L	2		8260B	Total/NA
Isopropylbenzene	22		2.0	0.28	ug/L	2		8260B	Total/NA
Naphthalene	12		2.0	0.32	ug/L	2		8260B	Total/NA
N-Propylbenzene	9.2		2.0	0.26	ug/L	2		8260B	Total/NA
p-Isopropyltoluene	2.7		2.0	0.34	ug/L	2		8260B	Total/NA
sec-Butylbenzene	3.0		2.0	0.30	ug/L	2		8260B	Total/NA
Tetrachloroethene	10		2.0	0.34	ug/L	2		8260B	Total/NA
Toluene	25		1.0	0.22	ug/L	2		8260B	Total/NA
Trichloroethene	24		1.0	0.38	ug/L	2		8260B	Total/NA
Xylenes, Total	16		2.0	0.14	ug/L	2		8260B	Total/NA
Benzene - DL	650		10	1.5	ug/L	20		8260B	Total/NA

Client Sample ID: DUP-1

Lab Sample ID: 500-75363-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	8.9		2.0	0.28	ug/L	2		8260B	Total/NA
1,2-Dichloropropane	2.3		2.0	0.40	ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	2.5		2.0	0.24	ug/L	2		8260B	Total/NA
Ethylbenzene	6.3		1.0	0.26	ug/L	2		8260B	Total/NA
Isopropylbenzene	21		2.0	0.28	ug/L	2		8260B	Total/NA
Naphthalene	10		2.0	0.32	ug/L	2		8260B	Total/NA
N-Propylbenzene	8.6		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	8.9		2.0	0.34	ug/L	2		8260B	Total/NA
Toluene	24		1.0	0.22	ug/L	2		8260B	Total/NA
Trichloroethene	23		1.0	0.38	ug/L	2		8260B	Total/NA
Xylenes, Total	15		2.0	0.14	ug/L	2		8260B	Total/NA
Benzene - DL	710		10	1.5	ug/L	20		8260B	Total/NA

Client Sample ID: MW-6S

Lab Sample ID: 500-75363-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	2.0		1.0	0.14	ug/L	1		8260B	Total/NA
1,3,5-Trimethylbenzene	0.73	J	1.0	0.18	ug/L	1		8260B	Total/NA
Benzene	2.8		0.50	0.074	ug/L	1		8260B	Total/NA
Ethylbenzene	7.5		0.50	0.13	ug/L	1		8260B	Total/NA
Isopropylbenzene	2.6		1.0	0.14	ug/L	1		8260B	Total/NA
Naphthalene	4.2		1.0	0.16	ug/L	1		8260B	Total/NA
N-Propylbenzene	1.5		1.0	0.13	ug/L	1		8260B	Total/NA
p-Isopropyltoluene	0.56	J	1.0	0.17	ug/L	1		8260B	Total/NA
sec-Butylbenzene	0.82	J	1.0	0.15	ug/L	1		8260B	Total/NA
Tetrachloroethene	0.66	J	1.0	0.17	ug/L	1		8260B	Total/NA
Toluene	1.1		0.50	0.11	ug/L	1		8260B	Total/NA
Xylenes, Total	2.8		1.0	0.068	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-75363-13

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: 500-75363-1

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: 500-75363-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-75363-1	MW-24	Water	04/17/14 11:20	04/18/14 09:25
500-75363-2	MW-2D	Water	04/17/14 13:01	04/18/14 09:25
500-75363-3	MW-2S	Water	04/17/14 14:18	04/18/14 09:25
500-75363-4	MW-19D	Water	04/17/14 16:20	04/18/14 09:25
500-75363-5	MW-19D2	Water	04/17/14 17:40	04/18/14 09:25
500-75363-6	MW-19D Quenched	Water	04/17/14 16:30	04/18/14 09:25
500-75363-7	MW-4D	Water	04/17/14 16:25	04/18/14 09:25
500-75363-8	MW-4S	Water	04/17/14 15:00	04/18/14 09:25
500-75363-9	MW-4D2	Water	04/17/14 18:00	04/18/14 09:25
500-75363-10	MW-6D	Water	04/17/14 12:30	04/18/14 09:25
500-75363-11	DUP-1	Water	04/17/14 00:00	04/18/14 09:25
500-75363-12	MW-6S	Water	04/17/14 10:39	04/18/14 09:25
500-75363-13	Trip Blank	Water	04/17/14 00:00	04/18/14 09:25

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-24

Lab Sample ID: 500-75363-1

Date Collected: 04/17/14 11:20

Matrix: Water

Date Received: 04/18/14 09:25

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			04/22/14 18:03	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/22/14 18:03	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/22/14 18:03	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 18:03	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/22/14 18:03	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/22/14 18:03	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/22/14 18:03	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/22/14 18:03	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/22/14 18:03	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/22/14 18:03	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 18:03	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/22/14 18:03	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/22/14 18:03	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/22/14 18:03	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 18:03	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/22/14 18:03	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/22/14 18:03	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 18:03	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/22/14 18:03	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 18:03	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/22/14 18:03	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/22/14 18:03	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/22/14 18:03	1
Benzene	<0.074		0.50	0.074	ug/L			04/22/14 18:03	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/22/14 18:03	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/22/14 18:03	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/22/14 18:03	1
Bromoform	<0.28		1.0	0.28	ug/L			04/22/14 18:03	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/22/14 18:03	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/22/14 18:03	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/22/14 18:03	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/22/14 18:03	1
Chloroform	<0.20		1.0	0.20	ug/L			04/22/14 18:03	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/22/14 18:03	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/22/14 18:03	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/22/14 18:03	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/22/14 18:03	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/22/14 18:03	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/22/14 18:03	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/22/14 18:03	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/22/14 18:03	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/22/14 18:03	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 18:03	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/22/14 18:03	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/22/14 18:03	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/22/14 18:03	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 18:03	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 18:03	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/22/14 18:03	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-24

Lab Sample ID: 500-75363-1

Date Collected: 04/17/14 11:20

Matrix: Water

Date Received: 04/18/14 09:25

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			04/22/14 18:03	1
Styrene	<0.10		1.0	0.10	ug/L			04/22/14 18:03	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 18:03	1
Tetrachloroethene	2.8		1.0	0.17	ug/L			04/22/14 18:03	1
Toluene	<0.11		0.50	0.11	ug/L			04/22/14 18:03	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/22/14 18:03	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/22/14 18:03	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/22/14 18:03	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/22/14 18:03	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/22/14 18:03	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/22/14 18:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 125					04/22/14 18:03	1
4-Bromofluorobenzene (Surr)	91		75 - 120					04/22/14 18:03	1
Dibromofluoromethane	88		75 - 120					04/22/14 18:03	1
Toluene-d8 (Surr)	94		75 - 120					04/22/14 18:03	1

Client Sample ID: MW-2D

Lab Sample ID: 500-75363-2

Date Collected: 04/17/14 13:01

Matrix: Water

Date Received: 04/18/14 09:25

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			04/22/14 18:31	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/22/14 18:31	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/22/14 18:31	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 18:31	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/22/14 18:31	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/22/14 18:31	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/22/14 18:31	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/22/14 18:31	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/22/14 18:31	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/22/14 18:31	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 18:31	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/22/14 18:31	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/22/14 18:31	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/22/14 18:31	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 18:31	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/22/14 18:31	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/22/14 18:31	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 18:31	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/22/14 18:31	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 18:31	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/22/14 18:31	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/22/14 18:31	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/22/14 18:31	1
Benzene	<0.074		0.50	0.074	ug/L			04/22/14 18:31	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/22/14 18:31	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/22/14 18:31	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-2D

Lab Sample ID: 500-75363-2

Date Collected: 04/17/14 13:01

Matrix: Water

Date Received: 04/18/14 09:25

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			04/22/14 18:31	1
Bromoform	<0.28		1.0	0.28	ug/L			04/22/14 18:31	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/22/14 18:31	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/22/14 18:31	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/22/14 18:31	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/22/14 18:31	1
Chloroform	<0.20		1.0	0.20	ug/L			04/22/14 18:31	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/22/14 18:31	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/22/14 18:31	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/22/14 18:31	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/22/14 18:31	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/22/14 18:31	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/22/14 18:31	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/22/14 18:31	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/22/14 18:31	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/22/14 18:31	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 18:31	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/22/14 18:31	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/22/14 18:31	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/22/14 18:31	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 18:31	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 18:31	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/22/14 18:31	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/22/14 18:31	1
Styrene	<0.10		1.0	0.10	ug/L			04/22/14 18:31	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 18:31	1
Toluene	<0.11		0.50	0.11	ug/L			04/22/14 18:31	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/22/14 18:31	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/22/14 18:31	1
Trichloroethene	2.5		0.50	0.19	ug/L			04/22/14 18:31	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/22/14 18:31	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/22/14 18:31	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/22/14 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 125		04/22/14 18:31	1
4-Bromofluorobenzene (Surr)	92		75 - 120		04/22/14 18:31	1
Dibromofluoromethane	91		75 - 120		04/22/14 18:31	1
Toluene-d8 (Surr)	94		75 - 120		04/22/14 18:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	450		10	1.7	ug/L			04/22/14 18:58	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125		04/22/14 18:58	10
4-Bromofluorobenzene (Surr)	92		75 - 120		04/22/14 18:58	10
Dibromofluoromethane	91		75 - 120		04/22/14 18:58	10
Toluene-d8 (Surr)	95		75 - 120		04/22/14 18:58	10

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-2S

Lab Sample ID: 500-75363-3

Date Collected: 04/17/14 14:18

Matrix: Water

Date Received: 04/18/14 09:25

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			04/22/14 19:26	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/22/14 19:26	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/22/14 19:26	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 19:26	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/22/14 19:26	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/22/14 19:26	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/22/14 19:26	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/22/14 19:26	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/22/14 19:26	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/22/14 19:26	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 19:26	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/22/14 19:26	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/22/14 19:26	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/22/14 19:26	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 19:26	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/22/14 19:26	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/22/14 19:26	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 19:26	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/22/14 19:26	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 19:26	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/22/14 19:26	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/22/14 19:26	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/22/14 19:26	1
Benzene	<0.074		0.50	0.074	ug/L			04/22/14 19:26	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/22/14 19:26	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/22/14 19:26	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/22/14 19:26	1
Bromoform	<0.28		1.0	0.28	ug/L			04/22/14 19:26	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/22/14 19:26	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/22/14 19:26	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/22/14 19:26	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/22/14 19:26	1
Chloroform	<0.20		1.0	0.20	ug/L			04/22/14 19:26	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/22/14 19:26	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/22/14 19:26	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/22/14 19:26	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/22/14 19:26	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/22/14 19:26	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/22/14 19:26	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/22/14 19:26	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/22/14 19:26	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/22/14 19:26	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 19:26	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/22/14 19:26	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/22/14 19:26	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/22/14 19:26	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 19:26	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 19:26	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/22/14 19:26	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-2S

Lab Sample ID: 500-75363-3

Date Collected: 04/17/14 14:18

Matrix: Water

Date Received: 04/18/14 09:25

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			04/22/14 19:26	1
Styrene	<0.10		1.0	0.10	ug/L			04/22/14 19:26	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 19:26	1
Tetrachloroethene	1.3		1.0	0.17	ug/L			04/22/14 19:26	1
Toluene	<0.11		0.50	0.11	ug/L			04/22/14 19:26	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/22/14 19:26	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/22/14 19:26	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/22/14 19:26	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/22/14 19:26	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/22/14 19:26	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/22/14 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125					04/22/14 19:26	1
4-Bromofluorobenzene (Surr)	93		75 - 120					04/22/14 19:26	1
Dibromofluoromethane	90		75 - 120					04/22/14 19:26	1
Toluene-d8 (Surr)	95		75 - 120					04/22/14 19:26	1

Client Sample ID: MW-19D

Lab Sample ID: 500-75363-4

Date Collected: 04/17/14 16:20

Matrix: Water

Date Received: 04/18/14 09:25

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			04/22/14 23:41	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			04/22/14 23:41	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			04/22/14 23:41	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			04/22/14 23:41	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			04/22/14 23:41	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			04/22/14 23:41	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			04/22/14 23:41	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			04/22/14 23:41	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			04/22/14 23:41	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			04/22/14 23:41	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			04/22/14 23:41	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			04/22/14 23:41	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			04/22/14 23:41	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			04/22/14 23:41	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			04/22/14 23:41	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			04/22/14 23:41	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			04/22/14 23:41	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/22/14 23:41	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			04/22/14 23:41	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/22/14 23:41	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			04/22/14 23:41	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			04/22/14 23:41	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			04/22/14 23:41	2
Benzene	<0.15		1.0	0.15	ug/L			04/22/14 23:41	2
Bromobenzene	<0.50		2.0	0.50	ug/L			04/22/14 23:41	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			04/22/14 23:41	2

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-19D

Lab Sample ID: 500-75363-4

Date Collected: 04/17/14 16:20

Matrix: Water

Date Received: 04/18/14 09:25

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			04/22/14 23:41	2
Bromoform	<0.56		2.0	0.56	ug/L			04/22/14 23:41	2
Bromomethane	<0.62		2.0	0.62	ug/L			04/22/14 23:41	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			04/22/14 23:41	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			04/22/14 23:41	2
Chloroethane	<0.68		2.0	0.68	ug/L			04/22/14 23:41	2
Chloroform	<0.40		2.0	0.40	ug/L			04/22/14 23:41	2
Chloromethane	<0.36		2.0	0.36	ug/L			04/22/14 23:41	2
cis-1,2-Dichloroethene	<0.24		2.0	0.24	ug/L			04/22/14 23:41	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			04/22/14 23:41	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			04/22/14 23:41	2
Dibromomethane	<0.66		2.0	0.66	ug/L			04/22/14 23:41	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			04/22/14 23:41	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			04/22/14 23:41	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			04/22/14 23:41	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			04/22/14 23:41	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			04/22/14 23:41	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			04/22/14 23:41	2
Methylene Chloride	<1.4		10	1.4	ug/L			04/22/14 23:41	2
Naphthalene	<0.32		2.0	0.32	ug/L			04/22/14 23:41	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			04/22/14 23:41	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			04/22/14 23:41	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			04/22/14 23:41	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			04/22/14 23:41	2
Styrene	<0.20		2.0	0.20	ug/L			04/22/14 23:41	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			04/22/14 23:41	2
Toluene	<0.22		1.0	0.22	ug/L			04/22/14 23:41	2
trans-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			04/22/14 23:41	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			04/22/14 23:41	2
Trichloroethene	<0.38		1.0	0.38	ug/L			04/22/14 23:41	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			04/22/14 23:41	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/22/14 23:41	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			04/22/14 23:41	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 125		04/22/14 23:41	2
4-Bromofluorobenzene (Surr)	93		75 - 120		04/22/14 23:41	2
Dibromofluoromethane	91		75 - 120		04/22/14 23:41	2
Toluene-d8 (Surr)	82		75 - 120		04/22/14 23:41	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	910		20	3.4	ug/L			04/23/14 00:08	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125		04/23/14 00:08	20
4-Bromofluorobenzene (Surr)	93		75 - 120		04/23/14 00:08	20
Dibromofluoromethane	90		75 - 120		04/23/14 00:08	20
Toluene-d8 (Surr)	93		75 - 120		04/23/14 00:08	20

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-19D2

Lab Sample ID: 500-75363-5

Date Collected: 04/17/14 17:40

Matrix: Water

Date Received: 04/18/14 09:25

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			04/23/14 00:36	5
1,1,1-Trichloroethane	<1.0		5.0	1.0	ug/L			04/23/14 00:36	5
1,1,2,2-Tetrachloroethane	<1.2		5.0	1.2	ug/L			04/23/14 00:36	5
1,1,2-Trichloroethane	<1.4		5.0	1.4	ug/L			04/23/14 00:36	5
1,1-Dichloroethane	<0.95		5.0	0.95	ug/L			04/23/14 00:36	5
1,1-Dichloroethene	<1.6		5.0	1.6	ug/L			04/23/14 00:36	5
1,1-Dichloropropene	<1.7		5.0	1.7	ug/L			04/23/14 00:36	5
1,2,3-Trichlorobenzene	<1.2		5.0	1.2	ug/L			04/23/14 00:36	5
1,2,3-Trichloropropane	<2.3		5.0	2.3	ug/L			04/23/14 00:36	5
1,2,4-Trichlorobenzene	<1.6		5.0	1.6	ug/L			04/23/14 00:36	5
1,2,4-Trimethylbenzene	<0.70		5.0	0.70	ug/L			04/23/14 00:36	5
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/L			04/23/14 00:36	5
1,2-Dibromoethane	<1.8		5.0	1.8	ug/L			04/23/14 00:36	5
1,2-Dichlorobenzene	<1.4		5.0	1.4	ug/L			04/23/14 00:36	5
1,2-Dichloroethane	<1.4		5.0	1.4	ug/L			04/23/14 00:36	5
1,2-Dichloropropane	<1.0		5.0	1.0	ug/L			04/23/14 00:36	5
1,3,5-Trimethylbenzene	<0.90		5.0	0.90	ug/L			04/23/14 00:36	5
1,3-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/23/14 00:36	5
1,3-Dichloropropane	<0.65		5.0	0.65	ug/L			04/23/14 00:36	5
1,4-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/23/14 00:36	5
2,2-Dichloropropane	<1.6		5.0	1.6	ug/L			04/23/14 00:36	5
2-Chlorotoluene	<1.1		5.0	1.1	ug/L			04/23/14 00:36	5
4-Chlorotoluene	<1.0		5.0	1.0	ug/L			04/23/14 00:36	5
Benzene	<0.37		2.5	0.37	ug/L			04/23/14 00:36	5
Bromobenzene	<1.3		5.0	1.3	ug/L			04/23/14 00:36	5
Bromochloromethane	<2.0		5.0	2.0	ug/L			04/23/14 00:36	5
Bromodichloromethane	<0.85		5.0	0.85	ug/L			04/23/14 00:36	5
Bromoform	<1.4		5.0	1.4	ug/L			04/23/14 00:36	5
Bromomethane	<1.6		5.0	1.6	ug/L			04/23/14 00:36	5
Carbon tetrachloride	<1.3		5.0	1.3	ug/L			04/23/14 00:36	5
Chlorobenzene	<0.70		5.0	0.70	ug/L			04/23/14 00:36	5
Chloroethane	<1.7		5.0	1.7	ug/L			04/23/14 00:36	5
Chloroform	<1.0		5.0	1.0	ug/L			04/23/14 00:36	5
Chloromethane	<0.90		5.0	0.90	ug/L			04/23/14 00:36	5
cis-1,2-Dichloroethene	330		5.0	0.60	ug/L			04/23/14 00:36	5
cis-1,3-Dichloropropene	<0.90		5.0	0.90	ug/L			04/23/14 00:36	5
Dibromochloromethane	<1.6		5.0	1.6	ug/L			04/23/14 00:36	5
Dibromomethane	<1.7		5.0	1.7	ug/L			04/23/14 00:36	5
Dichlorodifluoromethane	<1.0		5.0	1.0	ug/L			04/23/14 00:36	5
Ethylbenzene	<0.65		2.5	0.65	ug/L			04/23/14 00:36	5
Hexachlorobutadiene	<1.3		5.0	1.3	ug/L			04/23/14 00:36	5
Isopropyl ether	<0.75		5.0	0.75	ug/L			04/23/14 00:36	5
Isopropylbenzene	<0.70		5.0	0.70	ug/L			04/23/14 00:36	5
Methyl tert-butyl ether	<1.2		5.0	1.2	ug/L			04/23/14 00:36	5
Methylene Chloride	<3.4		25	3.4	ug/L			04/23/14 00:36	5
Naphthalene	<0.80		5.0	0.80	ug/L			04/23/14 00:36	5
n-Butylbenzene	<0.65		5.0	0.65	ug/L			04/23/14 00:36	5
N-Propylbenzene	<0.65		5.0	0.65	ug/L			04/23/14 00:36	5
p-Isopropyltoluene	<0.85		5.0	0.85	ug/L			04/23/14 00:36	5

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-19D2

Lab Sample ID: 500-75363-5

Date Collected: 04/17/14 17:40

Matrix: Water

Date Received: 04/18/14 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.75		5.0	0.75	ug/L			04/23/14 00:36	5
Styrene	<0.50		5.0	0.50	ug/L			04/23/14 00:36	5
tert-Butylbenzene	<0.70		5.0	0.70	ug/L			04/23/14 00:36	5
Toluene	<0.55		2.5	0.55	ug/L			04/23/14 00:36	5
trans-1,2-Dichloroethene	5.0		5.0	1.3	ug/L			04/23/14 00:36	5
trans-1,3-Dichloropropene	<1.1		5.0	1.1	ug/L			04/23/14 00:36	5
Trichloroethene	170		2.5	0.95	ug/L			04/23/14 00:36	5
Trichlorofluoromethane	<0.95		5.0	0.95	ug/L			04/23/14 00:36	5
Vinyl chloride	7.9		2.5	0.50	ug/L			04/23/14 00:36	5
Xylenes, Total	<0.34		5.0	0.34	ug/L			04/23/14 00:36	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125		04/23/14 00:36	5
4-Bromofluorobenzene (Surr)	94		75 - 120		04/23/14 00:36	5
Dibromofluoromethane	92		75 - 120		04/23/14 00:36	5
Toluene-d8 (Surr)	93		75 - 120		04/23/14 00:36	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1900		50	8.5	ug/L			04/23/14 01:03	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125		04/23/14 01:03	50
4-Bromofluorobenzene (Surr)	93		75 - 120		04/23/14 01:03	50
Dibromofluoromethane	90		75 - 120		04/23/14 01:03	50
Toluene-d8 (Surr)	93		75 - 120		04/23/14 01:03	50

Client Sample ID: MW-19D Quenched

Lab Sample ID: 500-75363-6

Date Collected: 04/17/14 16:30

Matrix: Water

Date Received: 04/18/14 09:25

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			04/23/14 01:31	5
1,1,1-Trichloroethane	<1.0		5.0	1.0	ug/L			04/23/14 01:31	5
1,1,1,2,2-Tetrachloroethane	<1.2		5.0	1.2	ug/L			04/23/14 01:31	5
1,1,2-Trichloroethane	<1.4		5.0	1.4	ug/L			04/23/14 01:31	5
1,1-Dichloroethane	<0.95		5.0	0.95	ug/L			04/23/14 01:31	5
1,1-Dichloroethene	<1.6		5.0	1.6	ug/L			04/23/14 01:31	5
1,1-Dichloropropene	<1.7		5.0	1.7	ug/L			04/23/14 01:31	5
1,2,3-Trichlorobenzene	<1.2		5.0	1.2	ug/L			04/23/14 01:31	5
1,2,3-Trichloropropane	<2.3		5.0	2.3	ug/L			04/23/14 01:31	5
1,2,4-Trichlorobenzene	<1.6		5.0	1.6	ug/L			04/23/14 01:31	5
1,2,4-Trimethylbenzene	<0.70		5.0	0.70	ug/L			04/23/14 01:31	5
1,2-Dibromo-3-Chloropropane	<4.4		10	4.4	ug/L			04/23/14 01:31	5
1,2-Dibromoethane	<1.8		5.0	1.8	ug/L			04/23/14 01:31	5
1,2-Dichlorobenzene	<1.4		5.0	1.4	ug/L			04/23/14 01:31	5
1,2-Dichloroethane	<1.4		5.0	1.4	ug/L			04/23/14 01:31	5
1,2-Dichloropropane	<1.0		5.0	1.0	ug/L			04/23/14 01:31	5
1,3,5-Trimethylbenzene	<0.90		5.0	0.90	ug/L			04/23/14 01:31	5

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-19D Quenched

Lab Sample ID: 500-75363-6

Date Collected: 04/17/14 16:30

Matrix: Water

Date Received: 04/18/14 09:25

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			04/23/14 01:31	5
1,3-Dichloropropane	<0.65		5.0	0.65	ug/L			04/23/14 01:31	5
1,4-Dichlorobenzene	<0.75		5.0	0.75	ug/L			04/23/14 01:31	5
2,2-Dichloropropane	<1.6		5.0	1.6	ug/L			04/23/14 01:31	5
2-Chlorotoluene	<1.1		5.0	1.1	ug/L			04/23/14 01:31	5
4-Chlorotoluene	<1.0		5.0	1.0	ug/L			04/23/14 01:31	5
Benzene	<0.37		2.5	0.37	ug/L			04/23/14 01:31	5
Bromobenzene	<1.3		5.0	1.3	ug/L			04/23/14 01:31	5
Bromochloromethane	<2.0		5.0	2.0	ug/L			04/23/14 01:31	5
Bromodichloromethane	<0.85		5.0	0.85	ug/L			04/23/14 01:31	5
Bromoform	<1.4		5.0	1.4	ug/L			04/23/14 01:31	5
Bromomethane	<1.6		5.0	1.6	ug/L			04/23/14 01:31	5
Carbon tetrachloride	<1.3		5.0	1.3	ug/L			04/23/14 01:31	5
Chlorobenzene	<0.70		5.0	0.70	ug/L			04/23/14 01:31	5
Chloroethane	<1.7		5.0	1.7	ug/L			04/23/14 01:31	5
Chloroform	<1.0		5.0	1.0	ug/L			04/23/14 01:31	5
Chloromethane	<0.90		5.0	0.90	ug/L			04/23/14 01:31	5
cis-1,2-Dichloroethene	49		5.0	0.60	ug/L			04/23/14 01:31	5
cis-1,3-Dichloropropene	<0.90		5.0	0.90	ug/L			04/23/14 01:31	5
Dibromochloromethane	<1.6		5.0	1.6	ug/L			04/23/14 01:31	5
Dibromomethane	<1.7		5.0	1.7	ug/L			04/23/14 01:31	5
Dichlorodifluoromethane	<1.0		5.0	1.0	ug/L			04/23/14 01:31	5
Ethylbenzene	<0.65		2.5	0.65	ug/L			04/23/14 01:31	5
Hexachlorobutadiene	<1.3		5.0	1.3	ug/L			04/23/14 01:31	5
Isopropyl ether	<0.75		5.0	0.75	ug/L			04/23/14 01:31	5
Isopropylbenzene	<0.70		5.0	0.70	ug/L			04/23/14 01:31	5
Methyl tert-butyl ether	<1.2		5.0	1.2	ug/L			04/23/14 01:31	5
Methylene Chloride	<3.4		25	3.4	ug/L			04/23/14 01:31	5
Naphthalene	<0.80		5.0	0.80	ug/L			04/23/14 01:31	5
n-Butylbenzene	<0.65		5.0	0.65	ug/L			04/23/14 01:31	5
N-Propylbenzene	<0.65		5.0	0.65	ug/L			04/23/14 01:31	5
p-Isopropyltoluene	<0.85		5.0	0.85	ug/L			04/23/14 01:31	5
sec-Butylbenzene	<0.75		5.0	0.75	ug/L			04/23/14 01:31	5
Styrene	<0.50		5.0	0.50	ug/L			04/23/14 01:31	5
tert-Butylbenzene	<0.70		5.0	0.70	ug/L			04/23/14 01:31	5
Toluene	<0.55		2.5	0.55	ug/L			04/23/14 01:31	5
trans-1,2-Dichloroethene	<1.3		5.0	1.3	ug/L			04/23/14 01:31	5
trans-1,3-Dichloropropene	<1.1		5.0	1.1	ug/L			04/23/14 01:31	5
Trichloroethene	68		2.5	0.95	ug/L			04/23/14 01:31	5
Trichlorofluoromethane	<0.95		5.0	0.95	ug/L			04/23/14 01:31	5
Vinyl chloride	<0.50		2.5	0.50	ug/L			04/23/14 01:31	5
Xylenes, Total	<0.34		5.0	0.34	ug/L			04/23/14 01:31	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125					04/23/14 01:31	5
4-Bromofluorobenzene (Surr)	91		75 - 120					04/23/14 01:31	5
Dibromofluoromethane	90		75 - 120					04/23/14 01:31	5
Toluene-d8 (Surr)	94		75 - 120					04/23/14 01:31	5

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-19D Quenched

Lab Sample ID: 500-75363-6

Date Collected: 04/17/14 16:30

Matrix: Water

Date Received: 04/18/14 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1400		50	8.5	ug/L			04/23/14 01:58	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125					04/23/14 01:58	50
4-Bromofluorobenzene (Surr)	94		75 - 120					04/23/14 01:58	50
Dibromofluoromethane	91		75 - 120					04/23/14 01:58	50
Toluene-d8 (Surr)	94		75 - 120					04/23/14 01:58	50

Client Sample ID: MW-4D

Lab Sample ID: 500-75363-7

Date Collected: 04/17/14 16:25

Matrix: Water

Date Received: 04/18/14 09:25

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			04/23/14 02:25	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/23/14 02:25	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/23/14 02:25	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 02:25	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/23/14 02:25	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/23/14 02:25	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/23/14 02:25	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/23/14 02:25	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/23/14 02:25	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/23/14 02:25	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 02:25	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/23/14 02:25	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/23/14 02:25	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/23/14 02:25	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 02:25	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/23/14 02:25	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/23/14 02:25	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 02:25	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/23/14 02:25	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 02:25	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/23/14 02:25	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/23/14 02:25	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/23/14 02:25	1
Benzene	<0.074		0.50	0.074	ug/L			04/23/14 02:25	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/23/14 02:25	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/23/14 02:25	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/23/14 02:25	1
Bromoform	<0.28		1.0	0.28	ug/L			04/23/14 02:25	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/23/14 02:25	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/23/14 02:25	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/23/14 02:25	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/23/14 02:25	1
Chloroform	<0.20		1.0	0.20	ug/L			04/23/14 02:25	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/23/14 02:25	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/23/14 02:25	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/23/14 02:25	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-4D

Lab Sample ID: 500-75363-7

Date Collected: 04/17/14 16:25

Matrix: Water

Date Received: 04/18/14 09:25

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			04/23/14 02:25	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/23/14 02:25	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/23/14 02:25	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/23/14 02:25	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/23/14 02:25	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/23/14 02:25	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 02:25	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/23/14 02:25	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/23/14 02:25	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/23/14 02:25	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 02:25	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 02:25	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/23/14 02:25	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/23/14 02:25	1
Styrene	<0.10		1.0	0.10	ug/L			04/23/14 02:25	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 02:25	1
Tetrachloroethene	0.58 J		1.0	0.17	ug/L			04/23/14 02:25	1
Toluene	<0.11		0.50	0.11	ug/L			04/23/14 02:25	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/23/14 02:25	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/23/14 02:25	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/23/14 02:25	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/23/14 02:25	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/23/14 02:25	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/23/14 02:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 125		04/23/14 02:25	1
4-Bromofluorobenzene (Surr)	92		75 - 120		04/23/14 02:25	1
Dibromofluoromethane	89		75 - 120		04/23/14 02:25	1
Toluene-d8 (Surr)	95		75 - 120		04/23/14 02:25	1

Client Sample ID: MW-4S

Lab Sample ID: 500-75363-8

Date Collected: 04/17/14 15:00

Matrix: Water

Date Received: 04/18/14 09:25

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			04/23/14 02:53	1
1,1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/23/14 02:53	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/23/14 02:53	1
1,1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 02:53	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/23/14 02:53	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/23/14 02:53	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/23/14 02:53	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/23/14 02:53	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/23/14 02:53	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/23/14 02:53	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 02:53	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/23/14 02:53	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/23/14 02:53	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-4S

Lab Sample ID: 500-75363-8

Date Collected: 04/17/14 15:00

Matrix: Water

Date Received: 04/18/14 09:25

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			04/23/14 02:53	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 02:53	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/23/14 02:53	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/23/14 02:53	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 02:53	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/23/14 02:53	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 02:53	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/23/14 02:53	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/23/14 02:53	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/23/14 02:53	1
Benzene	<0.074		0.50	0.074	ug/L			04/23/14 02:53	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/23/14 02:53	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/23/14 02:53	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/23/14 02:53	1
Bromoform	<0.28		1.0	0.28	ug/L			04/23/14 02:53	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/23/14 02:53	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/23/14 02:53	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/23/14 02:53	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/23/14 02:53	1
Chloroform	<0.20		1.0	0.20	ug/L			04/23/14 02:53	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/23/14 02:53	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/23/14 02:53	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/23/14 02:53	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/23/14 02:53	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/23/14 02:53	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/23/14 02:53	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/23/14 02:53	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/23/14 02:53	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/23/14 02:53	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 02:53	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/23/14 02:53	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/23/14 02:53	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/23/14 02:53	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 02:53	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 02:53	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/23/14 02:53	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/23/14 02:53	1
Styrene	<0.10		1.0	0.10	ug/L			04/23/14 02:53	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 02:53	1
Tetrachloroethene	1.9		1.0	0.17	ug/L			04/23/14 02:53	1
Toluene	<0.11		0.50	0.11	ug/L			04/23/14 02:53	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/23/14 02:53	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/23/14 02:53	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/23/14 02:53	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/23/14 02:53	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/23/14 02:53	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/23/14 02:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 125		04/23/14 02:53	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-4S

Lab Sample ID: 500-75363-8

Date Collected: 04/17/14 15:00

Matrix: Water

Date Received: 04/18/14 09:25

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		75 - 120		04/23/14 02:53	1
Dibromofluoromethane	90		75 - 120		04/23/14 02:53	1
Toluene-d8 (Surr)	94		75 - 120		04/23/14 02:53	1

Client Sample ID: MW-4D2

Lab Sample ID: 500-75363-9

Date Collected: 04/17/14 18:00

Matrix: Water

Date Received: 04/18/14 09:25

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			04/23/14 03:20	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/23/14 03:20	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/23/14 03:20	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 03:20	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/23/14 03:20	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/23/14 03:20	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/23/14 03:20	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/23/14 03:20	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/23/14 03:20	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/23/14 03:20	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 03:20	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/23/14 03:20	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/23/14 03:20	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/23/14 03:20	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 03:20	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/23/14 03:20	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/23/14 03:20	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 03:20	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/23/14 03:20	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 03:20	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/23/14 03:20	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/23/14 03:20	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/23/14 03:20	1
Benzene	<0.074		0.50	0.074	ug/L			04/23/14 03:20	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/23/14 03:20	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/23/14 03:20	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/23/14 03:20	1
Bromoform	<0.28		1.0	0.28	ug/L			04/23/14 03:20	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/23/14 03:20	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/23/14 03:20	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/23/14 03:20	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/23/14 03:20	1
Chloroform	<0.20		1.0	0.20	ug/L			04/23/14 03:20	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/23/14 03:20	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/23/14 03:20	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/23/14 03:20	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/23/14 03:20	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/23/14 03:20	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/23/14 03:20	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-4D2

Lab Sample ID: 500-75363-9

Date Collected: 04/17/14 18:00

Matrix: Water

Date Received: 04/18/14 09:25

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			04/23/14 03:20	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/23/14 03:20	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/23/14 03:20	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 03:20	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/23/14 03:20	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/23/14 03:20	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/23/14 03:20	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 03:20	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 03:20	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/23/14 03:20	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/23/14 03:20	1
Styrene	<0.10		1.0	0.10	ug/L			04/23/14 03:20	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 03:20	1
Tetrachloroethene	1.5		1.0	0.17	ug/L			04/23/14 03:20	1
Toluene	<0.11		0.50	0.11	ug/L			04/23/14 03:20	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/23/14 03:20	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/23/14 03:20	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/23/14 03:20	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/23/14 03:20	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/23/14 03:20	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/23/14 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125		04/23/14 03:20	1
4-Bromofluorobenzene (Surr)	93		75 - 120		04/23/14 03:20	1
Dibromofluoromethane	91		75 - 120		04/23/14 03:20	1
Toluene-d8 (Surr)	96		75 - 120		04/23/14 03:20	1

Client Sample ID: MW-6D

Lab Sample ID: 500-75363-10

Date Collected: 04/17/14 12:30

Matrix: Water

Date Received: 04/18/14 09:25

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			04/23/14 03:47	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			04/23/14 03:47	2
1,1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			04/23/14 03:47	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			04/23/14 03:47	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			04/23/14 03:47	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			04/23/14 03:47	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			04/23/14 03:47	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			04/23/14 03:47	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			04/23/14 03:47	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			04/23/14 03:47	2
1,2,4-Trimethylbenzene	9.7		2.0	0.28	ug/L			04/23/14 03:47	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			04/23/14 03:47	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			04/23/14 03:47	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			04/23/14 03:47	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			04/23/14 03:47	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			04/23/14 03:47	2

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-6D

Lab Sample ID: 500-75363-10

Date Collected: 04/17/14 12:30

Matrix: Water

Date Received: 04/18/14 09:25

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			04/23/14 03:47	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/23/14 03:47	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			04/23/14 03:47	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/23/14 03:47	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			04/23/14 03:47	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			04/23/14 03:47	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			04/23/14 03:47	2
Bromobenzene	<0.50		2.0	0.50	ug/L			04/23/14 03:47	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			04/23/14 03:47	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			04/23/14 03:47	2
Bromoform	<0.56		2.0	0.56	ug/L			04/23/14 03:47	2
Bromomethane	<0.62		2.0	0.62	ug/L			04/23/14 03:47	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			04/23/14 03:47	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			04/23/14 03:47	2
Chloroethane	<0.68		2.0	0.68	ug/L			04/23/14 03:47	2
Chloroform	<0.40		2.0	0.40	ug/L			04/23/14 03:47	2
Chloromethane	<0.36		2.0	0.36	ug/L			04/23/14 03:47	2
cis-1,2-Dichloroethene	2.8		2.0	0.24	ug/L			04/23/14 03:47	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			04/23/14 03:47	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			04/23/14 03:47	2
Dibromomethane	<0.66		2.0	0.66	ug/L			04/23/14 03:47	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			04/23/14 03:47	2
Ethylbenzene	6.7		1.0	0.26	ug/L			04/23/14 03:47	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			04/23/14 03:47	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			04/23/14 03:47	2
Isopropylbenzene	22		2.0	0.28	ug/L			04/23/14 03:47	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			04/23/14 03:47	2
Methylene Chloride	<1.4		10	1.4	ug/L			04/23/14 03:47	2
Naphthalene	12		2.0	0.32	ug/L			04/23/14 03:47	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			04/23/14 03:47	2
N-Propylbenzene	9.2		2.0	0.26	ug/L			04/23/14 03:47	2
p-Isopropyltoluene	2.7		2.0	0.34	ug/L			04/23/14 03:47	2
sec-Butylbenzene	3.0		2.0	0.30	ug/L			04/23/14 03:47	2
Styrene	<0.20		2.0	0.20	ug/L			04/23/14 03:47	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			04/23/14 03:47	2
Tetrachloroethene	10		2.0	0.34	ug/L			04/23/14 03:47	2
Toluene	25		1.0	0.22	ug/L			04/23/14 03:47	2
trans-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			04/23/14 03:47	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			04/23/14 03:47	2
Trichloroethene	24		1.0	0.38	ug/L			04/23/14 03:47	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			04/23/14 03:47	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/23/14 03:47	2
Xylenes, Total	16		2.0	0.14	ug/L			04/23/14 03:47	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	139	X	75 - 125		04/23/14 03:47	2
4-Bromofluorobenzene (Surr)	94		75 - 120		04/23/14 03:47	2
Dibromofluoromethane	93		75 - 120		04/23/14 03:47	2
Toluene-d8 (Surr)	95		75 - 120		04/23/14 03:47	2

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-6D

Lab Sample ID: 500-75363-10

Date Collected: 04/17/14 12:30

Matrix: Water

Date Received: 04/18/14 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	650		10	1.5	ug/L			04/23/14 04:14	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 125					04/23/14 04:14	20
4-Bromofluorobenzene (Surr)	93		75 - 120					04/23/14 04:14	20
Dibromofluoromethane	92		75 - 120					04/23/14 04:14	20
Toluene-d8 (Surr)	94		75 - 120					04/23/14 04:14	20

Client Sample ID: DUP-1

Lab Sample ID: 500-75363-11

Date Collected: 04/17/14 00:00

Matrix: Water

Date Received: 04/18/14 09:25

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			04/23/14 04:42	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			04/23/14 04:42	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			04/23/14 04:42	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			04/23/14 04:42	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			04/23/14 04:42	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			04/23/14 04:42	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			04/23/14 04:42	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			04/23/14 04:42	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			04/23/14 04:42	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			04/23/14 04:42	2
1,2,4-Trimethylbenzene	8.9		2.0	0.28	ug/L			04/23/14 04:42	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			04/23/14 04:42	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			04/23/14 04:42	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			04/23/14 04:42	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			04/23/14 04:42	2
1,2-Dichloropropane	2.3		2.0	0.40	ug/L			04/23/14 04:42	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			04/23/14 04:42	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/23/14 04:42	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			04/23/14 04:42	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/23/14 04:42	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			04/23/14 04:42	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			04/23/14 04:42	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			04/23/14 04:42	2
Bromobenzene	<0.50		2.0	0.50	ug/L			04/23/14 04:42	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			04/23/14 04:42	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			04/23/14 04:42	2
Bromoform	<0.56		2.0	0.56	ug/L			04/23/14 04:42	2
Bromomethane	<0.62		2.0	0.62	ug/L			04/23/14 04:42	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			04/23/14 04:42	2
Chlorobenzene	<0.28		2.0	0.28	ug/L			04/23/14 04:42	2
Chloroethane	<0.68		2.0	0.68	ug/L			04/23/14 04:42	2
Chloroform	<0.40		2.0	0.40	ug/L			04/23/14 04:42	2
Chloromethane	<0.36		2.0	0.36	ug/L			04/23/14 04:42	2
cis-1,2-Dichloroethene	2.5		2.0	0.24	ug/L			04/23/14 04:42	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			04/23/14 04:42	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			04/23/14 04:42	2

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: DUP-1

Lab Sample ID: 500-75363-11

Date Collected: 04/17/14 00:00

Matrix: Water

Date Received: 04/18/14 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromomethane	<0.66		2.0	0.66	ug/L			04/23/14 04:42	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			04/23/14 04:42	2
Ethylbenzene	6.3		1.0	0.26	ug/L			04/23/14 04:42	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			04/23/14 04:42	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			04/23/14 04:42	2
Isopropylbenzene	21		2.0	0.28	ug/L			04/23/14 04:42	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			04/23/14 04:42	2
Methylene Chloride	<1.4		10	1.4	ug/L			04/23/14 04:42	2
Naphthalene	10		2.0	0.32	ug/L			04/23/14 04:42	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			04/23/14 04:42	2
N-Propylbenzene	8.6		2.0	0.26	ug/L			04/23/14 04:42	2
p-Isopropyltoluene	2.5		2.0	0.34	ug/L			04/23/14 04:42	2
sec-Butylbenzene	2.8		2.0	0.30	ug/L			04/23/14 04:42	2
Styrene	<0.20		2.0	0.20	ug/L			04/23/14 04:42	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			04/23/14 04:42	2
Tetrachloroethene	8.9		2.0	0.34	ug/L			04/23/14 04:42	2
Toluene	24		1.0	0.22	ug/L			04/23/14 04:42	2
trans-1,2-Dichloroethene	<0.50		2.0	0.50	ug/L			04/23/14 04:42	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			04/23/14 04:42	2
Trichloroethene	23		1.0	0.38	ug/L			04/23/14 04:42	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			04/23/14 04:42	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/23/14 04:42	2
Xylenes, Total	15		2.0	0.14	ug/L			04/23/14 04:42	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	135	X	75 - 125		04/23/14 04:42	2
4-Bromofluorobenzene (Surr)	92		75 - 120		04/23/14 04:42	2
Dibromofluoromethane	91		75 - 120		04/23/14 04:42	2
Toluene-d8 (Surr)	94		75 - 120		04/23/14 04:42	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	710		10	1.5	ug/L			04/23/14 05:09	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125		04/23/14 05:09	20
4-Bromofluorobenzene (Surr)	96		75 - 120		04/23/14 05:09	20
Dibromofluoromethane	92		75 - 120		04/23/14 05:09	20
Toluene-d8 (Surr)	94		75 - 120		04/23/14 05:09	20

Client Sample ID: MW-6S

Lab Sample ID: 500-75363-12

Date Collected: 04/17/14 10:39

Matrix: Water

Date Received: 04/18/14 09:25

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			04/23/14 05:36	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/23/14 05:36	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/23/14 05:36	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 05:36	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-6S

Lab Sample ID: 500-75363-12

Date Collected: 04/17/14 10:39

Matrix: Water

Date Received: 04/18/14 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/23/14 05:36	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/23/14 05:36	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/23/14 05:36	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/23/14 05:36	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/23/14 05:36	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/23/14 05:36	1
1,2,4-Trimethylbenzene	2.0		1.0	0.14	ug/L			04/23/14 05:36	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/23/14 05:36	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/23/14 05:36	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/23/14 05:36	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 05:36	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/23/14 05:36	1
1,3,5-Trimethylbenzene	0.73	J	1.0	0.18	ug/L			04/23/14 05:36	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 05:36	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/23/14 05:36	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 05:36	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/23/14 05:36	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/23/14 05:36	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/23/14 05:36	1
Benzene	2.8		0.50	0.074	ug/L			04/23/14 05:36	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/23/14 05:36	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/23/14 05:36	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/23/14 05:36	1
Bromoform	<0.28		1.0	0.28	ug/L			04/23/14 05:36	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/23/14 05:36	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/23/14 05:36	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/23/14 05:36	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/23/14 05:36	1
Chloroform	<0.20		1.0	0.20	ug/L			04/23/14 05:36	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/23/14 05:36	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/23/14 05:36	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/23/14 05:36	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/23/14 05:36	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/23/14 05:36	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/23/14 05:36	1
Ethylbenzene	7.5		0.50	0.13	ug/L			04/23/14 05:36	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/23/14 05:36	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/23/14 05:36	1
Isopropylbenzene	2.6		1.0	0.14	ug/L			04/23/14 05:36	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/23/14 05:36	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/23/14 05:36	1
Naphthalene	4.2		1.0	0.16	ug/L			04/23/14 05:36	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 05:36	1
N-Propylbenzene	1.5		1.0	0.13	ug/L			04/23/14 05:36	1
p-Isopropyltoluene	0.56	J	1.0	0.17	ug/L			04/23/14 05:36	1
sec-Butylbenzene	0.82	J	1.0	0.15	ug/L			04/23/14 05:36	1
Styrene	<0.10		1.0	0.10	ug/L			04/23/14 05:36	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 05:36	1
Tetrachloroethene	0.66	J	1.0	0.17	ug/L			04/23/14 05:36	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-6S

Lab Sample ID: 500-75363-12

Date Collected: 04/17/14 10:39

Matrix: Water

Date Received: 04/18/14 09:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	1.1		0.50	0.11	ug/L			04/23/14 05:36	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/23/14 05:36	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/23/14 05:36	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/23/14 05:36	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/23/14 05:36	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/23/14 05:36	1
Xylenes, Total	2.8		1.0	0.068	ug/L			04/23/14 05:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 125					04/23/14 05:36	1
4-Bromofluorobenzene (Surr)	95		75 - 120					04/23/14 05:36	1
Dibromofluoromethane	93		75 - 120					04/23/14 05:36	1
Toluene-d8 (Surr)	95		75 - 120					04/23/14 05:36	1

Client Sample ID: Trip Blank

Lab Sample ID: 500-75363-13

Date Collected: 04/17/14 00:00

Matrix: Water

Date Received: 04/18/14 09:25

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			04/22/14 11:38	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/22/14 11:38	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/22/14 11:38	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 11:38	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/22/14 11:38	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/22/14 11:38	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/22/14 11:38	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/22/14 11:38	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/22/14 11:38	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/22/14 11:38	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 11:38	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/22/14 11:38	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/22/14 11:38	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/22/14 11:38	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 11:38	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/22/14 11:38	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/22/14 11:38	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 11:38	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/22/14 11:38	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 11:38	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/22/14 11:38	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/22/14 11:38	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/22/14 11:38	1
Benzene	<0.074		0.50	0.074	ug/L			04/22/14 11:38	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/22/14 11:38	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/22/14 11:38	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/22/14 11:38	1
Bromoform	<0.28		1.0	0.28	ug/L			04/22/14 11:38	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/22/14 11:38	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/22/14 11:38	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-75363-13

Date Collected: 04/17/14 00:00

Matrix: Water

Date Received: 04/18/14 09:25

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			04/22/14 11:38	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/22/14 11:38	1
Chloroform	<0.20		1.0	0.20	ug/L			04/22/14 11:38	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/22/14 11:38	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/22/14 11:38	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/22/14 11:38	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/22/14 11:38	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/22/14 11:38	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/22/14 11:38	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/22/14 11:38	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/22/14 11:38	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/22/14 11:38	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 11:38	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/22/14 11:38	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/22/14 11:38	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/22/14 11:38	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 11:38	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 11:38	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/22/14 11:38	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/22/14 11:38	1
Styrene	<0.10		1.0	0.10	ug/L			04/22/14 11:38	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 11:38	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/22/14 11:38	1
Toluene	<0.11		0.50	0.11	ug/L			04/22/14 11:38	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/22/14 11:38	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/22/14 11:38	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/22/14 11:38	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/22/14 11:38	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/22/14 11:38	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/22/14 11:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 125		04/22/14 11:38	1
4-Bromofluorobenzene (Surr)	91		75 - 120		04/22/14 11:38	1
Dibromofluoromethane	90		75 - 120		04/22/14 11:38	1
Toluene-d8 (Surr)	95		75 - 120		04/22/14 11:38	1

Definitions/Glossary

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

TestAmerica Job ID: 500-75363-1

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

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
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: 500-75363-1

GC/MS VOA

Analysis Batch: 232567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-75363-1	MW-24	Total/NA	Water	8260B	
500-75363-2	MW-2D	Total/NA	Water	8260B	
500-75363-2 - DL	MW-2D	Total/NA	Water	8260B	
500-75363-3	MW-2S	Total/NA	Water	8260B	
500-75363-3 MS	MW-2S	Total/NA	Water	8260B	
500-75363-3 MSD	MW-2S	Total/NA	Water	8260B	
500-75363-13	Trip Blank	Total/NA	Water	8260B	
LCS 500-232567/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-232567/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 232661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-75363-4	MW-19D	Total/NA	Water	8260B	
500-75363-4 - DL	MW-19D	Total/NA	Water	8260B	
500-75363-5	MW-19D2	Total/NA	Water	8260B	
500-75363-5 - DL	MW-19D2	Total/NA	Water	8260B	
500-75363-6	MW-19D Quenched	Total/NA	Water	8260B	
500-75363-6 - DL	MW-19D Quenched	Total/NA	Water	8260B	
500-75363-7	MW-4D	Total/NA	Water	8260B	
500-75363-8	MW-4S	Total/NA	Water	8260B	
500-75363-9	MW-4D2	Total/NA	Water	8260B	
500-75363-10	MW-6D	Total/NA	Water	8260B	
500-75363-10 - DL	MW-6D	Total/NA	Water	8260B	
500-75363-11	DUP-1	Total/NA	Water	8260B	
500-75363-11 - DL	DUP-1	Total/NA	Water	8260B	
500-75363-12	MW-6S	Total/NA	Water	8260B	
500-75363-12 MS	MW-6S	Total/NA	Water	8260B	
500-75363-12 MSD	MW-6S	Total/NA	Water	8260B	
LCS 500-232661/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-232661/6	Method Blank	Total/NA	Water	8260B	

Surrogate Summary

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

TestAmerica Job ID: 500-75363-1

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)
500-75363-1	MW-24	96	91	88	94
500-75363-2	MW-2D	97	92	91	94
500-75363-2 - DL	MW-2D	98	92	91	95
500-75363-3	MW-2S	98	93	90	95
500-75363-3 MS	MW-2S	98	92	93	94
500-75363-3 MSD	MW-2S	97	91	92	94
500-75363-4	MW-19D	97	93	91	82
500-75363-4 - DL	MW-19D	98	93	90	93
500-75363-5 - DL	MW-19D2	100	93	90	93
500-75363-5	MW-19D2	98	94	92	93
500-75363-6	MW-19D Quenched	98	91	90	94
500-75363-6 - DL	MW-19D Quenched	100	94	91	94
500-75363-7	MW-4D	99	92	89	95
500-75363-8	MW-4S	99	93	90	94
500-75363-9	MW-4D2	98	93	91	96
500-75363-10	MW-6D	139 X	94	93	95
500-75363-10 - DL	MW-6D	103	93	92	94
500-75363-11	DUP-1	135 X	92	91	94
500-75363-11 - DL	DUP-1	100	96	92	94
500-75363-12	MW-6S	102	95	93	95
500-75363-12 MS	MW-6S	106	91	98	93
500-75363-12 MSD	MW-6S	104	92	96	95
500-75363-13	Trip Blank	98	91	90	95
LCS 500-232567/4	Lab Control Sample	98	92	90	95
LCS 500-232661/4	Lab Control Sample	98	92	92	93
MB 500-232567/6	Method Blank	96	94	90	94
MB 500-232661/6	Method Blank	100	93	91	93

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: 500-75363-1

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

Lab Sample ID: MB 500-232567/6

Matrix: Water

Analysis Batch: 232567

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			04/22/14 11:11	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/22/14 11:11	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/22/14 11:11	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 11:11	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/22/14 11:11	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/22/14 11:11	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/22/14 11:11	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/22/14 11:11	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/22/14 11:11	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/22/14 11:11	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 11:11	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/22/14 11:11	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/22/14 11:11	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/22/14 11:11	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 11:11	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/22/14 11:11	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/22/14 11:11	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 11:11	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/22/14 11:11	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 11:11	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/22/14 11:11	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/22/14 11:11	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/22/14 11:11	1
Benzene	<0.074		0.50	0.074	ug/L			04/22/14 11:11	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/22/14 11:11	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/22/14 11:11	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/22/14 11:11	1
Bromoform	<0.28		1.0	0.28	ug/L			04/22/14 11:11	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/22/14 11:11	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/22/14 11:11	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/22/14 11:11	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/22/14 11:11	1
Chloroform	<0.20		1.0	0.20	ug/L			04/22/14 11:11	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/22/14 11:11	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/22/14 11:11	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/22/14 11:11	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/22/14 11:11	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/22/14 11:11	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/22/14 11:11	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/22/14 11:11	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/22/14 11:11	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/22/14 11:11	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 11:11	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/22/14 11:11	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/22/14 11:11	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/22/14 11:11	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 11:11	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 11:11	1

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75363-1

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

Lab Sample ID: MB 500-232567/6

Matrix: Water

Analysis Batch: 232567

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			04/22/14 11:11	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/22/14 11:11	1
Styrene	<0.10		1.0	0.10	ug/L			04/22/14 11:11	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 11:11	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/22/14 11:11	1
Toluene	<0.11		0.50	0.11	ug/L			04/22/14 11:11	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/22/14 11:11	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/22/14 11:11	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/22/14 11:11	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/22/14 11:11	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/22/14 11:11	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/22/14 11:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 125		04/22/14 11:11	1
4-Bromofluorobenzene (Surr)	94		75 - 120		04/22/14 11:11	1
Dibromofluoromethane	90		75 - 120		04/22/14 11:11	1
Toluene-d8 (Surr)	94		75 - 120		04/22/14 11:11	1

Lab Sample ID: LCS 500-232567/4

Matrix: Water

Analysis Batch: 232567

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	46.0		ug/L		92	75 - 122
1,1,1-Trichloroethane	50.0	42.3		ug/L		85	72 - 130
1,1,2,2-Tetrachloroethane	50.0	47.3		ug/L		95	72 - 130
1,1,2-Trichloroethane	50.0	45.2		ug/L		90	75 - 120
1,1-Dichloroethane	50.0	42.8		ug/L		86	75 - 120
1,1-Dichloroethene	50.0	39.5		ug/L		79	69 - 120
1,1-Dichloropropene	50.0	44.2		ug/L		88	75 - 130
1,2,3-Trichlorobenzene	50.0	46.6		ug/L		93	69 - 131
1,2,3-Trichloropropane	50.0	45.9		ug/L		92	65 - 132
1,2,4-Trichlorobenzene	50.0	45.9		ug/L		92	73 - 130
1,2,4-Trimethylbenzene	50.0	44.9		ug/L		90	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	43.8		ug/L		88	62 - 130
1,2-Dibromoethane	50.0	46.7		ug/L		93	78 - 122
1,2-Dichlorobenzene	50.0	46.4		ug/L		93	75 - 120
1,2-Dichloroethane	50.0	46.3		ug/L		93	69 - 130
1,2-Dichloropropane	50.0	43.3		ug/L		87	75 - 120
1,3,5-Trimethylbenzene	50.0	46.0		ug/L		92	75 - 121
1,3-Dichlorobenzene	50.0	46.2		ug/L		92	75 - 120
1,3-Dichloropropane	50.0	46.9		ug/L		94	77 - 124
1,4-Dichlorobenzene	50.0	45.3		ug/L		91	75 - 120
2,2-Dichloropropane	50.0	41.4		ug/L		83	65 - 132
2-Chlorotoluene	50.0	45.1		ug/L		90	75 - 120
4-Chlorotoluene	50.0	45.5		ug/L		91	75 - 120
Benzene	50.0	41.5		ug/L		83	75 - 120

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75363-1

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

Lab Sample ID: LCS 500-232567/4

Matrix: Water

Analysis Batch: 232567

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	46.6		ug/L		93	75 - 120
Bromochloromethane	50.0	43.3		ug/L		87	76 - 120
Bromodichloromethane	50.0	42.4		ug/L		85	77 - 121
Bromoform	50.0	43.6		ug/L		87	68 - 126
Bromomethane	50.0	49.9		ug/L		100	45 - 169
Carbon tetrachloride	50.0	44.1		ug/L		88	70 - 130
Chlorobenzene	50.0	44.7		ug/L		89	75 - 120
Chloroethane	50.0	54.7		ug/L		109	58 - 147
Chloroform	50.0	42.2		ug/L		84	76 - 120
Chloromethane	50.0	52.6		ug/L		105	63 - 133
cis-1,2-Dichloroethene	50.0	42.3		ug/L		85	75 - 120
cis-1,3-Dichloropropene	50.0	43.6		ug/L		87	78 - 121
Dibromochloromethane	50.0	43.7		ug/L		87	71 - 126
Dibromomethane	50.0	44.9		ug/L		90	75 - 120
Dichlorodifluoromethane	50.0	48.7		ug/L		97	41 - 146
Ethylbenzene	50.0	45.1		ug/L		90	75 - 120
Hexachlorobutadiene	50.0	49.0		ug/L		98	71 - 131
Isopropylbenzene	50.0	46.7		ug/L		93	75 - 121
Methyl tert-butyl ether	50.0	43.3		ug/L		87	75 - 130
Methylene Chloride	50.0	41.0		ug/L		82	73 - 130
Naphthalene	50.0	46.5		ug/L		93	69 - 135
n-Butylbenzene	50.0	47.6		ug/L		95	75 - 121
N-Propylbenzene	50.0	46.8		ug/L		94	75 - 120
p-Isopropyltoluene	50.0	47.6		ug/L		95	75 - 121
sec-Butylbenzene	50.0	47.5		ug/L		95	75 - 120
Styrene	50.0	42.7		ug/L		85	75 - 120
tert-Butylbenzene	50.0	46.7		ug/L		93	75 - 123
Tetrachloroethene	50.0	46.2		ug/L		92	75 - 120
Toluene	50.0	44.8		ug/L		90	75 - 120
trans-1,2-Dichloroethene	50.0	41.0		ug/L		82	77 - 120
trans-1,3-Dichloropropene	50.0	47.9		ug/L		96	74 - 123
Trichloroethene	50.0	43.6		ug/L		87	75 - 120
Trichlorofluoromethane	50.0	54.3		ug/L		109	71 - 130
Vinyl chloride	50.0	47.9		ug/L		96	72 - 123
Xylenes, Total	100	87.3		ug/L		87	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		75 - 125
4-Bromofluorobenzene (Surr)	92		75 - 120
Dibromofluoromethane	90		75 - 120
Toluene-d8 (Surr)	95		75 - 120

Lab Sample ID: 500-75363-3 MS

Matrix: Water

Analysis Batch: 232567

Client Sample ID: MW-2S

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	51.2		ug/L		102	75 - 122

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75363-1

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

Lab Sample ID: 500-75363-3 MS

Client Sample ID: MW-2S

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 232567

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier			Limits	
1,1,1-Trichloroethane	<0.20		50.0	45.5		ug/L		91	72 - 130
1,1,2,2-Tetrachloroethane	<0.23		50.0	52.6		ug/L		105	72 - 130
1,1,2-Trichloroethane	<0.28		50.0	49.7		ug/L		99	75 - 120
1,1-Dichloroethane	<0.19		50.0	46.8		ug/L		94	75 - 120
1,1-Dichloroethene	<0.31		50.0	41.5		ug/L		83	69 - 120
1,1-Dichloropropene	<0.34		50.0	46.3		ug/L		93	75 - 130
1,2,3-Trichlorobenzene	<0.24		50.0	54.2		ug/L		108	69 - 131
1,2,3-Trichloropropane	<0.45		50.0	52.0		ug/L		104	65 - 132
1,2,4-Trichlorobenzene	<0.31		50.0	50.2		ug/L		100	73 - 130
1,2,4-Trimethylbenzene	<0.14		50.0	49.4		ug/L		99	75 - 121
1,2-Dibromo-3-Chloropropane	<0.87		50.0	44.8		ug/L		90	62 - 130
1,2-Dibromoethane	<0.36		50.0	50.8		ug/L		102	78 - 122
1,2-Dichlorobenzene	<0.27		50.0	51.7		ug/L		103	75 - 120
1,2-Dichloroethane	<0.28		50.0	51.1		ug/L		102	69 - 130
1,2-Dichloropropane	<0.20		50.0	48.5		ug/L		97	75 - 120
1,3,5-Trimethylbenzene	<0.18		50.0	50.2		ug/L		100	75 - 121
1,3-Dichlorobenzene	<0.15		50.0	50.2		ug/L		100	75 - 120
1,3-Dichloropropane	<0.13		50.0	51.3		ug/L		103	77 - 124
1,4-Dichlorobenzene	<0.15		50.0	49.7		ug/L		99	75 - 120
2,2-Dichloropropane	<0.32		50.0	41.9		ug/L		84	65 - 132
2-Chlorotoluene	<0.21		50.0	49.8		ug/L		100	75 - 120
4-Chlorotoluene	<0.20		50.0	49.4		ug/L		99	75 - 120
Benzene	<0.074		50.0	45.2		ug/L		90	75 - 120
Bromobenzene	<0.25		50.0	52.1		ug/L		104	75 - 120
Bromochloromethane	<0.40		50.0	47.9		ug/L		96	76 - 120
Bromodichloromethane	<0.17		50.0	47.1		ug/L		94	77 - 121
Bromoform	<0.28		50.0	46.5		ug/L		93	68 - 126
Bromomethane	<0.31		50.0	51.7		ug/L		103	45 - 169
Carbon tetrachloride	<0.26		50.0	46.5		ug/L		93	70 - 130
Chlorobenzene	<0.14		50.0	49.0		ug/L		98	75 - 120
Chloroethane	<0.34		50.0	54.4		ug/L		109	58 - 147
Chloroform	<0.20		50.0	46.3		ug/L		93	76 - 120
Chloromethane	<0.18		50.0	53.1		ug/L		106	63 - 133
cis-1,2-Dichloroethene	<0.12		50.0	46.5		ug/L		93	75 - 120
cis-1,3-Dichloropropene	<0.18		50.0	46.7		ug/L		93	78 - 121
Dibromochloromethane	<0.32		50.0	47.5		ug/L		95	71 - 126
Dibromomethane	<0.33		50.0	49.2		ug/L		98	75 - 120
Dichlorodifluoromethane	<0.20		50.0	48.7		ug/L		97	41 - 146
Ethylbenzene	<0.13		50.0	48.4		ug/L		97	75 - 120
Hexachlorobutadiene	<0.26		50.0	54.7		ug/L		109	71 - 131
Isopropylbenzene	<0.14		50.0	50.7		ug/L		101	75 - 121
Methyl tert-butyl ether	<0.24		50.0	46.7		ug/L		93	75 - 130
Methylene Chloride	<0.68		50.0	45.5		ug/L		91	73 - 130
Naphthalene	<0.16		50.0	53.4		ug/L		107	69 - 135
n-Butylbenzene	<0.13		50.0	50.0		ug/L		100	75 - 121
N-Propylbenzene	<0.13		50.0	50.4		ug/L		101	75 - 120
p-Isopropyltoluene	<0.17		50.0	51.4		ug/L		103	75 - 121
sec-Butylbenzene	<0.15		50.0	51.2		ug/L		102	75 - 120

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75363-1

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

Lab Sample ID: 500-75363-3 MS

Client Sample ID: MW-2S

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 232567

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
Styrene	<0.10		50.0	46.7		ug/L		93	75 - 120
tert-Butylbenzene	<0.14		50.0	51.7		ug/L		103	75 - 123
Tetrachloroethene	1.3		50.0	48.4		ug/L		94	75 - 120
Toluene	<0.11		50.0	48.0		ug/L		96	75 - 120
trans-1,2-Dichloroethene	<0.25		50.0	44.7		ug/L		89	77 - 120
trans-1,3-Dichloropropene	<0.21		50.0	51.1		ug/L		102	74 - 123
Trichloroethene	<0.19		50.0	46.7		ug/L		93	75 - 120
Trichlorofluoromethane	<0.19		50.0	48.1		ug/L		96	71 - 130
Vinyl chloride	<0.10		50.0	48.8		ug/L		98	72 - 123
Xylenes, Total	<0.068		100	95.0		ug/L		95	75 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		75 - 125
4-Bromofluorobenzene (Surr)	92		75 - 120
Dibromofluoromethane	93		75 - 120
Toluene-d8 (Surr)	94		75 - 120

Lab Sample ID: 500-75363-3 MSD

Client Sample ID: MW-2S

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 232567

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	49.5		ug/L		99	75 - 122	3	20
1,1,1-Trichloroethane	<0.20		50.0	45.2		ug/L		90	72 - 130	1	20
1,1,1,2-Tetrachloroethane	<0.23		50.0	49.3		ug/L		99	72 - 130	7	20
1,1,2-Trichloroethane	<0.28		50.0	48.0		ug/L		96	75 - 120	3	20
1,1-Dichloroethane	<0.19		50.0	47.6		ug/L		95	75 - 120	2	20
1,1-Dichloroethene	<0.31		50.0	42.4		ug/L		85	69 - 120	2	20
1,1-Dichloropropene	<0.34		50.0	46.8		ug/L		94	75 - 130	1	20
1,2,3-Trichlorobenzene	<0.24		50.0	56.9		ug/L		114	69 - 131	5	20
1,2,3-Trichloropropane	<0.45		50.0	48.7		ug/L		97	65 - 132	7	20
1,2,4-Trichlorobenzene	<0.31		50.0	52.5		ug/L		105	73 - 130	4	20
1,2,4-Trimethylbenzene	<0.14		50.0	48.9		ug/L		98	75 - 121	1	20
1,2-Dibromo-3-Chloropropane	<0.87		50.0	43.4		ug/L		87	62 - 130	3	20
1,2-Dibromoethane	<0.36		50.0	49.4		ug/L		99	78 - 122	3	20
1,2-Dichlorobenzene	<0.27		50.0	51.2		ug/L		102	75 - 120	1	20
1,2-Dichloroethane	<0.28		50.0	51.1		ug/L		102	69 - 130	0	20
1,2-Dichloropropane	<0.20		50.0	48.7		ug/L		97	75 - 120	0	20
1,3,5-Trimethylbenzene	<0.18		50.0	49.7		ug/L		99	75 - 121	1	20
1,3-Dichlorobenzene	<0.15		50.0	49.6		ug/L		99	75 - 120	1	20
1,3-Dichloropropane	<0.13		50.0	50.6		ug/L		101	77 - 124	1	20
1,4-Dichlorobenzene	<0.15		50.0	49.1		ug/L		98	75 - 120	1	20
2,2-Dichloropropane	<0.32		50.0	41.7		ug/L		83	65 - 132	0	20
2-Chlorotoluene	<0.21		50.0	49.1		ug/L		98	75 - 120	1	20
4-Chlorotoluene	<0.20		50.0	49.0		ug/L		98	75 - 120	1	20
Benzene	<0.074		50.0	45.9		ug/L		92	75 - 120	2	20
Bromobenzene	<0.25		50.0	51.0		ug/L		102	75 - 120	2	20
Bromochloromethane	<0.40		50.0	47.9		ug/L		96	76 - 120	0	20

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75363-1

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

Lab Sample ID: 500-75363-3 MSD

Client Sample ID: MW-2S

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 232567

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Bromodichloromethane	<0.17		50.0	47.7		ug/L		95	77 - 121	1	20
Bromoform	<0.28		50.0	44.9		ug/L		90	68 - 126	3	20
Bromomethane	<0.31		50.0	50.3		ug/L		101	45 - 169	3	20
Carbon tetrachloride	<0.26		50.0	47.5		ug/L		95	70 - 130	2	20
Chlorobenzene	<0.14		50.0	48.4		ug/L		97	75 - 120	1	20
Chloroethane	<0.34		50.0	51.8		ug/L		104	58 - 147	5	20
Chloroform	<0.20		50.0	46.4		ug/L		93	76 - 120	0	20
Chloromethane	<0.18		50.0	51.1		ug/L		102	63 - 133	4	20
cis-1,2-Dichloroethene	<0.12		50.0	46.2		ug/L		92	75 - 120	1	20
cis-1,3-Dichloropropene	<0.18		50.0	46.7		ug/L		93	78 - 121	0	20
Dibromochloromethane	<0.32		50.0	46.4		ug/L		93	71 - 126	2	20
Dibromomethane	<0.33		50.0	49.0		ug/L		98	75 - 120	0	20
Dichlorodifluoromethane	<0.20		50.0	46.8		ug/L		94	41 - 146	4	20
Ethylbenzene	<0.13		50.0	48.2		ug/L		96	75 - 120	0	20
Hexachlorobutadiene	<0.26		50.0	55.1		ug/L		110	71 - 131	1	20
Isopropylbenzene	<0.14		50.0	49.9		ug/L		100	75 - 121	2	20
Methyl tert-butyl ether	<0.24		50.0	47.7		ug/L		95	75 - 130	2	20
Methylene Chloride	<0.68		50.0	45.9		ug/L		92	73 - 130	1	20
Naphthalene	<0.16		50.0	53.2		ug/L		106	69 - 135	0	20
n-Butylbenzene	<0.13		50.0	50.6		ug/L		101	75 - 121	1	20
N-Propylbenzene	<0.13		50.0	49.9		ug/L		100	75 - 120	1	20
p-Isopropyltoluene	<0.17		50.0	51.2		ug/L		102	75 - 121	0	20
sec-Butylbenzene	<0.15		50.0	50.5		ug/L		101	75 - 120	1	20
Styrene	<0.10		50.0	46.7		ug/L		93	75 - 120	0	20
tert-Butylbenzene	<0.14		50.0	50.5		ug/L		101	75 - 123	2	20
Tetrachloroethene	1.3		50.0	49.3		ug/L		96	75 - 120	2	20
Toluene	<0.11		50.0	48.3		ug/L		97	75 - 120	1	20
trans-1,2-Dichloroethene	<0.25		50.0	44.8		ug/L		90	77 - 120	0	20
trans-1,3-Dichloropropene	<0.21		50.0	50.5		ug/L		101	74 - 123	1	20
Trichloroethene	<0.19		50.0	47.5		ug/L		95	75 - 120	2	20
Trichlorofluoromethane	<0.19		50.0	45.9		ug/L		92	71 - 130	5	20
Vinyl chloride	<0.10		50.0	47.8		ug/L		96	72 - 123	2	20
Xylenes, Total	<0.068		100	94.2		ug/L		94	75 - 120	1	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		75 - 125
4-Bromofluorobenzene (Surr)	91		75 - 120
Dibromofluoromethane	92		75 - 120
Toluene-d8 (Surr)	94		75 - 120

Lab Sample ID: MB 500-232661/6

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 232661

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			04/22/14 23:14	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/22/14 23:14	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/22/14 23:14	1

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75363-1

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

Lab Sample ID: MB 500-232661/6

Matrix: Water

Analysis Batch: 232661

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			04/22/14 23:14	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/22/14 23:14	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/22/14 23:14	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/22/14 23:14	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/22/14 23:14	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/22/14 23:14	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/22/14 23:14	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 23:14	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/22/14 23:14	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/22/14 23:14	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/22/14 23:14	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/22/14 23:14	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/22/14 23:14	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/22/14 23:14	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 23:14	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/22/14 23:14	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/22/14 23:14	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/22/14 23:14	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/22/14 23:14	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/22/14 23:14	1
Benzene	<0.074		0.50	0.074	ug/L			04/22/14 23:14	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/22/14 23:14	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/22/14 23:14	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/22/14 23:14	1
Bromoform	<0.28		1.0	0.28	ug/L			04/22/14 23:14	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/22/14 23:14	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/22/14 23:14	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/22/14 23:14	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/22/14 23:14	1
Chloroform	<0.20		1.0	0.20	ug/L			04/22/14 23:14	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/22/14 23:14	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/22/14 23:14	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/22/14 23:14	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/22/14 23:14	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/22/14 23:14	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/22/14 23:14	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/22/14 23:14	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/22/14 23:14	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/22/14 23:14	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/22/14 23:14	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/22/14 23:14	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/22/14 23:14	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/22/14 23:14	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 23:14	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/22/14 23:14	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/22/14 23:14	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/22/14 23:14	1
Styrene	<0.10		1.0	0.10	ug/L			04/22/14 23:14	1

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75363-1

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

Lab Sample ID: MB 500-232661/6

Matrix: Water

Analysis Batch: 232661

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			04/22/14 23:14	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/22/14 23:14	1
Toluene	<0.11		0.50	0.11	ug/L			04/22/14 23:14	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/22/14 23:14	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/22/14 23:14	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/22/14 23:14	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/22/14 23:14	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/22/14 23:14	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/22/14 23:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125		04/22/14 23:14	1
4-Bromofluorobenzene (Surr)	93		75 - 120		04/22/14 23:14	1
Dibromofluoromethane	91		75 - 120		04/22/14 23:14	1
Toluene-d8 (Surr)	93		75 - 120		04/22/14 23:14	1

Lab Sample ID: LCS 500-232661/4

Matrix: Water

Analysis Batch: 232661

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	55.1		ug/L		110	75 - 122
1,1,1-Trichloroethane	50.0	50.5		ug/L		101	72 - 130
1,1,1,2-Tetrachloroethane	50.0	53.5		ug/L		107	72 - 130
1,1,2-Trichloroethane	50.0	52.1		ug/L		104	75 - 120
1,1-Dichloroethane	50.0	51.6		ug/L		103	75 - 120
1,1-Dichloroethene	50.0	43.8		ug/L		88	69 - 120
1,1-Dichloropropene	50.0	51.3		ug/L		103	75 - 130
1,2,3-Trichlorobenzene	50.0	59.2		ug/L		118	69 - 131
1,2,3-Trichloropropane	50.0	54.1		ug/L		108	65 - 132
1,2,4-Trichlorobenzene	50.0	55.4		ug/L		111	73 - 130
1,2,4-Trimethylbenzene	50.0	53.4		ug/L		107	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	48.9		ug/L		98	62 - 130
1,2-Dibromoethane	50.0	54.7		ug/L		109	78 - 122
1,2-Dichlorobenzene	50.0	55.9		ug/L		112	75 - 120
1,2-Dichloroethane	50.0	57.1		ug/L		114	69 - 130
1,2-Dichloropropane	50.0	54.0		ug/L		108	75 - 120
1,3,5-Trimethylbenzene	50.0	53.9		ug/L		108	75 - 121
1,3-Dichlorobenzene	50.0	54.6		ug/L		109	75 - 120
1,3-Dichloropropane	50.0	54.4		ug/L		109	77 - 124
1,4-Dichlorobenzene	50.0	53.8		ug/L		108	75 - 120
2,2-Dichloropropane	50.0	48.3		ug/L		97	65 - 132
2-Chlorotoluene	50.0	53.6		ug/L		107	75 - 120
4-Chlorotoluene	50.0	53.7		ug/L		107	75 - 120
Benzene	50.0	50.6		ug/L		101	75 - 120
Bromobenzene	50.0	56.6		ug/L		113	75 - 120
Bromochloromethane	50.0	52.8		ug/L		106	76 - 120
Bromodichloromethane	50.0	52.6		ug/L		105	77 - 121

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75363-1

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

Lab Sample ID: LCS 500-232661/4

Matrix: Water

Analysis Batch: 232661

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	51.0		ug/L		102	68 - 126
Bromomethane	50.0	57.3		ug/L		115	45 - 169
Carbon tetrachloride	50.0	51.6		ug/L		103	70 - 130
Chlorobenzene	50.0	52.9		ug/L		106	75 - 120
Chloroethane	50.0	57.9		ug/L		116	58 - 147
Chloroform	50.0	51.2		ug/L		102	76 - 120
Chloromethane	50.0	56.3		ug/L		113	63 - 133
cis-1,2-Dichloroethene	50.0	51.7		ug/L		103	75 - 120
cis-1,3-Dichloropropene	50.0	51.3		ug/L		103	78 - 121
Dibromochloromethane	50.0	51.3		ug/L		103	71 - 126
Dibromomethane	50.0	54.5		ug/L		109	75 - 120
Dichlorodifluoromethane	50.0	49.0		ug/L		98	41 - 146
Ethylbenzene	50.0	52.0		ug/L		104	75 - 120
Hexachlorobutadiene	50.0	55.9		ug/L		112	71 - 131
Isopropylbenzene	50.0	54.0		ug/L		108	75 - 121
Methyl tert-butyl ether	50.0	51.6		ug/L		103	75 - 130
Methylene Chloride	50.0	50.5		ug/L		101	73 - 130
Naphthalene	50.0	57.4		ug/L		115	69 - 135
n-Butylbenzene	50.0	52.7		ug/L		105	75 - 121
N-Propylbenzene	50.0	53.6		ug/L		107	75 - 120
p-Isopropyltoluene	50.0	54.4		ug/L		109	75 - 121
sec-Butylbenzene	50.0	54.0		ug/L		108	75 - 120
Styrene	50.0	50.9		ug/L		102	75 - 120
tert-Butylbenzene	50.0	54.4		ug/L		109	75 - 123
Tetrachloroethene	50.0	51.7		ug/L		103	75 - 120
Toluene	50.0	52.2		ug/L		104	75 - 120
trans-1,2-Dichloroethene	50.0	48.4		ug/L		97	77 - 120
trans-1,3-Dichloropropene	50.0	55.3		ug/L		111	74 - 123
Trichloroethene	50.0	53.0		ug/L		106	75 - 120
Trichlorofluoromethane	50.0	56.8		ug/L		114	71 - 130
Vinyl chloride	50.0	51.4		ug/L		103	72 - 123
Xylenes, Total	100	103		ug/L		103	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		75 - 125
4-Bromofluorobenzene (Surr)	92		75 - 120
Dibromofluoromethane	92		75 - 120
Toluene-d8 (Surr)	93		75 - 120

Lab Sample ID: 500-75363-12 MS

Matrix: Water

Analysis Batch: 232661

Client Sample ID: MW-6S

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	57.0		ug/L		114	75 - 122
1,1,1-Trichloroethane	<0.20		50.0	53.1		ug/L		106	72 - 130
1,1,2,2-Tetrachloroethane	<0.23		50.0	57.2		ug/L		114	72 - 130
1,1,2-Trichloroethane	<0.28		50.0	54.1		ug/L		108	75 - 120

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75363-1

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

Lab Sample ID: 500-75363-12 MS

Matrix: Water

Analysis Batch: 232661

Client Sample ID: MW-6S

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier	Added	Result	Qualifier				
1,1-Dichloroethane	<0.19		50.0	53.9		ug/L		108	75 - 120
1,1-Dichloroethene	<0.31		50.0	44.0		ug/L		88	69 - 120
1,1-Dichloropropene	<0.34		50.0	51.5		ug/L		103	75 - 130
1,2,3-Trichlorobenzene	<0.24		50.0	63.9		ug/L		128	69 - 131
1,2,3-Trichloropropane	<0.45		50.0	56.3		ug/L		113	65 - 132
1,2,4-Trichlorobenzene	<0.31		50.0	57.3		ug/L		115	73 - 130
1,2,4-Trimethylbenzene	2.0		50.0	55.6		ug/L		107	75 - 121
1,2-Dibromo-3-Chloropropane	<0.87		50.0	55.5		ug/L		111	62 - 130
1,2-Dibromoethane	<0.36		50.0	55.1		ug/L		110	78 - 122
1,2-Dichlorobenzene	<0.27		50.0	57.9		ug/L		116	75 - 120
1,2-Dichloroethane	<0.28		50.0	60.0		ug/L		120	69 - 130
1,2-Dichloropropane	<0.20		50.0	55.2		ug/L		110	75 - 120
1,3,5-Trimethylbenzene	0.73	J	50.0	55.5		ug/L		109	75 - 121
1,3-Dichlorobenzene	<0.15		50.0	55.5		ug/L		111	75 - 120
1,3-Dichloropropane	<0.13		50.0	56.1		ug/L		112	77 - 124
1,4-Dichlorobenzene	<0.15		50.0	54.3		ug/L		109	75 - 120
2,2-Dichloropropane	<0.32		50.0	47.3		ug/L		95	65 - 132
2-Chlorotoluene	<0.21		50.0	53.8		ug/L		108	75 - 120
4-Chlorotoluene	<0.20		50.0	53.7		ug/L		107	75 - 120
Benzene	2.8		50.0	53.3		ug/L		101	75 - 120
Bromobenzene	<0.25		50.0	58.2		ug/L		116	75 - 120
Bromochloromethane	<0.40		50.0	53.8		ug/L		108	76 - 120
Bromodichloromethane	<0.17		50.0	54.2		ug/L		108	77 - 121
Bromoform	<0.28		50.0	54.2		ug/L		108	68 - 126
Bromomethane	<0.31		50.0	61.6		ug/L		123	45 - 169
Carbon tetrachloride	<0.26		50.0	53.0		ug/L		106	70 - 130
Chlorobenzene	<0.14		50.0	53.8		ug/L		108	75 - 120
Chloroethane	<0.34		50.0	63.1		ug/L		126	58 - 147
Chloroform	<0.20		50.0	52.8		ug/L		106	76 - 120
Chloromethane	<0.18		50.0	57.0		ug/L		114	63 - 133
cis-1,2-Dichloroethene	<0.12		50.0	52.6		ug/L		105	75 - 120
cis-1,3-Dichloropropene	<0.18		50.0	50.9		ug/L		102	78 - 121
Dibromochloromethane	<0.32		50.0	53.7		ug/L		107	71 - 126
Dibromomethane	<0.33		50.0	56.5		ug/L		113	75 - 120
Dichlorodifluoromethane	<0.20		50.0	49.4		ug/L		99	41 - 146
Ethylbenzene	7.5		50.0	59.6		ug/L		104	75 - 120
Hexachlorobutadiene	<0.26		50.0	61.1		ug/L		122	71 - 131
Isopropylbenzene	2.6		50.0	57.6		ug/L		110	75 - 121
Methyl tert-butyl ether	<0.24		50.0	54.2		ug/L		108	75 - 130
Methylene Chloride	<0.68		50.0	50.8		ug/L		102	73 - 130
Naphthalene	4.2		50.0	68.4		ug/L		129	69 - 135
n-Butylbenzene	<0.13		50.0	52.5		ug/L		105	75 - 121
N-Propylbenzene	1.5		50.0	55.6		ug/L		108	75 - 120
p-Isopropyltoluene	0.56	J	50.0	55.1		ug/L		109	75 - 121
sec-Butylbenzene	0.82	J	50.0	55.8		ug/L		110	75 - 120
Styrene	<0.10		50.0	50.9		ug/L		102	75 - 120
tert-Butylbenzene	<0.14		50.0	56.3		ug/L		113	75 - 123
Tetrachloroethene	0.66	J	50.0	52.9		ug/L		104	75 - 120

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75363-1

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

Lab Sample ID: 500-75363-12 MS

Matrix: Water

Analysis Batch: 232661

Client Sample ID: MW-6S

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec. Limits	
	Result	Qualifier	Added	Result	Qualifier					
Toluene	1.1		50.0	53.3		ug/L		104	75 - 120	
trans-1,2-Dichloroethene	<0.25		50.0	48.4		ug/L		97	77 - 120	
trans-1,3-Dichloropropene	<0.21		50.0	57.4		ug/L		115	74 - 123	
Trichloroethene	<0.19		50.0	52.7		ug/L		105	75 - 120	
Trichlorofluoromethane	<0.19		50.0	54.6		ug/L		109	71 - 130	
Vinyl chloride	<0.10		50.0	50.4		ug/L		101	72 - 123	
Xylenes, Total	2.8		100	106		ug/L		104	75 - 120	
MS MS										
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	106		75 - 125							
4-Bromofluorobenzene (Surr)	91		75 - 120							
Dibromofluoromethane	98		75 - 120							
Toluene-d8 (Surr)	93		75 - 120							

Lab Sample ID: 500-75363-12 MSD

Matrix: Water

Analysis Batch: 232661

Client Sample ID: MW-6S

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	61.5	F1	ug/L		123	75 - 122	8	20
1,1,1-Trichloroethane	<0.20		50.0	57.6		ug/L		115	72 - 130	8	20
1,1,1,2-Tetrachloroethane	<0.23		50.0	57.6		ug/L		115	72 - 130	1	20
1,1,2-Trichloroethane	<0.28		50.0	57.2		ug/L		114	75 - 120	6	20
1,1-Dichloroethane	<0.19		50.0	58.4		ug/L		117	75 - 120	8	20
1,1-Dichloroethene	<0.31		50.0	49.8		ug/L		100	69 - 120	12	20
1,1-Dichloropropene	<0.34		50.0	56.6		ug/L		113	75 - 130	9	20
1,2,3-Trichlorobenzene	<0.24		50.0	59.9		ug/L		120	69 - 131	7	20
1,2,3-Trichloropropane	<0.45		50.0	58.0		ug/L		116	65 - 132	3	20
1,2,4-Trichlorobenzene	<0.31		50.0	56.1		ug/L		112	73 - 130	2	20
1,2,4-Trimethylbenzene	2.0		50.0	60.0		ug/L		116	75 - 121	8	20
1,2-Dibromo-3-Chloropropane	<0.87		50.0	56.2		ug/L		112	62 - 130	1	20
1,2-Dibromoethane	<0.36		50.0	58.5		ug/L		117	78 - 122	6	20
1,2-Dichlorobenzene	<0.27		50.0	60.7	F1	ug/L		121	75 - 120	5	20
1,2-Dichloroethane	<0.28		50.0	63.7		ug/L		127	69 - 130	6	20
1,2-Dichloropropane	<0.20		50.0	59.7		ug/L		119	75 - 120	8	20
1,3,5-Trimethylbenzene	0.73	J	50.0	59.9		ug/L		118	75 - 121	8	20
1,3-Dichlorobenzene	<0.15		50.0	58.4		ug/L		117	75 - 120	5	20
1,3-Dichloropropane	<0.13		50.0	59.2		ug/L		118	77 - 124	5	20
1,4-Dichlorobenzene	<0.15		50.0	57.3		ug/L		115	75 - 120	5	20
2,2-Dichloropropane	<0.32		50.0	50.4		ug/L		101	65 - 132	6	20
2-Chlorotoluene	<0.21		50.0	57.2		ug/L		114	75 - 120	6	20
4-Chlorotoluene	<0.20		50.0	57.2		ug/L		114	75 - 120	6	20
Benzene	2.8		50.0	57.5		ug/L		109	75 - 120	8	20
Bromobenzene	<0.25		50.0	62.1	F1	ug/L		124	75 - 120	6	20
Bromochloromethane	<0.40		50.0	59.5		ug/L		119	76 - 120	10	20
Bromodichloromethane	<0.17		50.0	58.1		ug/L		116	77 - 121	7	20
Bromoform	<0.28		50.0	55.7		ug/L		111	68 - 126	3	20
Bromomethane	<0.31		50.0	61.4		ug/L		123	45 - 169	0	20

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75363-1

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

Lab Sample ID: 500-75363-12 MSD

Client Sample ID: MW-6S

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 232661

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Carbon tetrachloride	<0.26		50.0	59.3		ug/L		119	70 - 130	11	20
Chlorobenzene	<0.14		50.0	58.0		ug/L		116	75 - 120	7	20
Chloroethane	<0.34		50.0	66.6		ug/L		133	58 - 147	5	20
Chloroform	<0.20		50.0	57.3		ug/L		115	76 - 120	8	20
Chloromethane	<0.18		50.0	60.2		ug/L		120	63 - 133	6	20
cis-1,2-Dichloroethene	<0.12		50.0	56.5		ug/L		113	75 - 120	7	20
cis-1,3-Dichloropropene	<0.18		50.0	55.1		ug/L		110	78 - 121	8	20
Dibromochloromethane	<0.32		50.0	56.7		ug/L		113	71 - 126	6	20
Dibromomethane	<0.33		50.0	59.3		ug/L		119	75 - 120	5	20
Dichlorodifluoromethane	<0.20		50.0	52.6		ug/L		105	41 - 146	6	20
Ethylbenzene	7.5		50.0	64.3		ug/L		114	75 - 120	8	20
Hexachlorobutadiene	<0.26		50.0	64.3		ug/L		129	71 - 131	5	20
Isopropylbenzene	2.6		50.0	62.5		ug/L		120	75 - 121	8	20
Methyl tert-butyl ether	<0.24		50.0	57.8		ug/L		116	75 - 130	6	20
Methylene Chloride	<0.68		50.0	55.5		ug/L		111	73 - 130	9	20
Naphthalene	4.2		50.0	64.0		ug/L		120	69 - 135	7	20
n-Butylbenzene	<0.13		50.0	57.5		ug/L		115	75 - 121	9	20
N-Propylbenzene	1.5		50.0	60.0		ug/L		117	75 - 120	8	20
p-Isopropyltoluene	0.56	J	50.0	60.2		ug/L		119	75 - 121	9	20
sec-Butylbenzene	0.82	J	50.0	60.7		ug/L		120	75 - 120	8	20
Styrene	<0.10		50.0	55.7		ug/L		111	75 - 120	9	20
tert-Butylbenzene	<0.14		50.0	61.1		ug/L		122	75 - 123	8	20
Tetrachloroethene	0.66	J	50.0	59.4		ug/L		117	75 - 120	12	20
Toluene	1.1		50.0	58.7		ug/L		115	75 - 120	10	20
trans-1,2-Dichloroethene	<0.25		50.0	53.2		ug/L		106	77 - 120	9	20
trans-1,3-Dichloropropene	<0.21		50.0	62.0	F1	ug/L		124	74 - 123	8	20
Trichloroethene	<0.19		50.0	57.3		ug/L		115	75 - 120	8	20
Trichlorofluoromethane	<0.19		50.0	54.8		ug/L		110	71 - 130	0	20
Vinyl chloride	<0.10		50.0	52.8		ug/L		106	72 - 123	5	20
Xylenes, Total	2.8		100	116		ug/L		113	75 - 120	8	20

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	104		75 - 125
4-Bromofluorobenzene (Surr)	92		75 - 120
Dibromofluoromethane	96		75 - 120
Toluene-d8 (Surr)	95		75 - 120

Lab Chronicle

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-24

Date Collected: 04/17/14 11:20

Date Received: 04/18/14 09:25

Lab Sample ID: 500-75363-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232567	04/22/14 18:03	BBS	TAL CHI

Client Sample ID: MW-2D

Date Collected: 04/17/14 13:01

Date Received: 04/18/14 09:25

Lab Sample ID: 500-75363-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232567	04/22/14 18:31	BBS	TAL CHI
Total/NA	Analysis	8260B	DL	10	232567	04/22/14 18:58	BBS	TAL CHI

Client Sample ID: MW-2S

Date Collected: 04/17/14 14:18

Date Received: 04/18/14 09:25

Lab Sample ID: 500-75363-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232567	04/22/14 19:26	BBS	TAL CHI

Client Sample ID: MW-19D

Date Collected: 04/17/14 16:20

Date Received: 04/18/14 09:25

Lab Sample ID: 500-75363-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	232661	04/22/14 23:41	BBS	TAL CHI
Total/NA	Analysis	8260B	DL	20	232661	04/23/14 00:08	BBS	TAL CHI

Client Sample ID: MW-19D2

Date Collected: 04/17/14 17:40

Date Received: 04/18/14 09:25

Lab Sample ID: 500-75363-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	232661	04/23/14 00:36	BBS	TAL CHI
Total/NA	Analysis	8260B	DL	50	232661	04/23/14 01:03	BBS	TAL CHI

Client Sample ID: MW-19D Quenched

Date Collected: 04/17/14 16:30

Date Received: 04/18/14 09:25

Lab Sample ID: 500-75363-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	232661	04/23/14 01:31	BBS	TAL CHI
Total/NA	Analysis	8260B	DL	50	232661	04/23/14 01:58	BBS	TAL CHI

TestAmerica Chicago

Lab Chronicle

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: MW-4D

Lab Sample ID: 500-75363-7

Date Collected: 04/17/14 16:25

Matrix: Water

Date Received: 04/18/14 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232661	04/23/14 02:25	BBS	TAL CHI

Client Sample ID: MW-4S

Lab Sample ID: 500-75363-8

Date Collected: 04/17/14 15:00

Matrix: Water

Date Received: 04/18/14 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232661	04/23/14 02:53	BBS	TAL CHI

Client Sample ID: MW-4D2

Lab Sample ID: 500-75363-9

Date Collected: 04/17/14 18:00

Matrix: Water

Date Received: 04/18/14 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232661	04/23/14 03:20	BBS	TAL CHI

Client Sample ID: MW-6D

Lab Sample ID: 500-75363-10

Date Collected: 04/17/14 12:30

Matrix: Water

Date Received: 04/18/14 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	232661	04/23/14 03:47	BBS	TAL CHI
Total/NA	Analysis	8260B	DL	20	232661	04/23/14 04:14	BBS	TAL CHI

Client Sample ID: DUP-1

Lab Sample ID: 500-75363-11

Date Collected: 04/17/14 00:00

Matrix: Water

Date Received: 04/18/14 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	232661	04/23/14 04:42	BBS	TAL CHI
Total/NA	Analysis	8260B	DL	20	232661	04/23/14 05:09	BBS	TAL CHI

Client Sample ID: MW-6S

Lab Sample ID: 500-75363-12

Date Collected: 04/17/14 10:39

Matrix: Water

Date Received: 04/18/14 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232661	04/23/14 05:36	BBS	TAL CHI

Lab Chronicle

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

TestAmerica Job ID: 500-75363-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-75363-13

Date Collected: 04/17/14 00:00

Matrix: Water

Date Received: 04/18/14 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232567	04/22/14 11:38	BBS	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: 500-75363-1

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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Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-75363-1

Login Number: 75363

List Number: 1

Creator: Lunt, Jeff T

List Source: TestAmerica Chicago

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	4.1
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: 500-75442-1
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:
5/1/2014 2:52:48 PM

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: 500-75442-1

Job ID: 500-75442-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-75442-1

Comments

No additional comments.

Receipt

The samples were received on 4/21/2014 9:50 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 sample was diluted to bring the concentration of target analytes within the calibration range: MW-3D (500-75442-7). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 8082: Surrogate recovery for the following sample was outside control limits: MW-22S (500-75442-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No other analytical or quality issues were noted.

Field Service / Mobile Lab

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

Organic Prep

Method(s) 3510C: The samples 500-75442-2 and 4 were logged in for total and dissolved PCBs. However, the sample labels were unclear as to which samples had been field filtered and which had not. Sample 2 was clean. Sample 4 had a hit from one bottle and a smaller hit from the other. As per the PM, it was determined that the higher hit was the total result and the smaller hit was the dissolved result, based on historical results.

No other analytical or quality issues were noted.

Detection Summary

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

TestAmerica Job ID: 500-75442-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-75442-1

No Detections.

Client Sample ID: MW-22D

Lab Sample ID: 500-75442-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.6		1.0	0.12	ug/L	1		8260B	Total/NA
Trichloroethene	6.8		0.50	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	430		10	1.7	ug/L	10		8260B	Total/NA

Client Sample ID: DUP-2

Lab Sample ID: 500-75442-3

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
Trichloroethene	6.7		0.50	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	450		10	1.7	ug/L	10		8260B	Total/NA

Client Sample ID: MW-22S

Lab Sample ID: 500-75442-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	46		1.0	0.12	ug/L	1		8260B	Total/NA
Tetrachloroethene	23		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	4.2		0.50	0.19	ug/L	1		8260B	Total/NA
PCB-1242	7.1		0.39	0.20	ug/L	1		8082	Total/NA
PCB-1242	0.28	J	0.40	0.20	ug/L	1		8082	Dissolved

Client Sample ID: MW-23D

Lab Sample ID: 500-75442-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	190		1.0	0.17	ug/L	1		8260B	Total/NA

Client Sample ID: MW-23S

Lab Sample ID: 500-75442-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	16		1.0	0.12	ug/L	1		8260B	Total/NA
Trichloroethene	11		0.50	0.19	ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	210		10	1.7	ug/L	10		8260B	Total/NA

Client Sample ID: MW-3D

Lab Sample ID: 500-75442-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	170		2.0	0.24	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	6.4		2.0	0.50	ug/L	2		8260B	Total/NA
Trichloroethene	130		1.0	0.38	ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	730		20	3.4	ug/L	20		8260B	Total/NA

Client Sample ID: MW-27D

Lab Sample ID: 500-75442-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.6		1.0	0.12	ug/L	1		8260B	Total/NA
Methyl tert-butyl ether	1.3		1.0	0.24	ug/L	1		8260B	Total/NA
Tetrachloroethene	5.4		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	3.5		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: 500-75442-1

Client Sample ID: MW-27D2

Lab Sample ID: 500-75442-9

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	44		1.0	0.17	ug/L	1		8260B	Total/NA
Trichloroethene	25		0.50	0.19	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

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Method Summary

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

TestAmerica Job ID: 500-75442-1

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: 500-75442-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-75442-1	Trip Blank	Water	04/18/14 00:00	04/21/14 09:50
500-75442-2	MW-22D	Water	04/18/14 08:45	04/21/14 09:50
500-75442-3	DUP-2	Water	04/18/14 00:00	04/21/14 09:50
500-75442-4	MW-22S	Water	04/18/14 10:10	04/21/14 09:50
500-75442-5	MW-23D	Water	04/18/14 11:37	04/21/14 09:50
500-75442-6	MW-23S	Water	04/18/14 13:23	04/21/14 09:50
500-75442-7	MW-3D	Water	04/18/14 15:35	04/21/14 09:50
500-75442-8	MW-27D	Water	04/18/14 15:30	04/21/14 09:50
500-75442-9	MW-27D2	Water	04/18/14 17:35	04/21/14 09:50



Client Sample Results

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

TestAmerica Job ID: 500-75442-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-75442-1

Date Collected: 04/18/14 00:00

Matrix: Water

Date Received: 04/21/14 09:50

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			04/23/14 11:57	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/23/14 11:57	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/23/14 11:57	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 11:57	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/23/14 11:57	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/23/14 11:57	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/23/14 11:57	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/23/14 11:57	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/23/14 11:57	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/23/14 11:57	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 11:57	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/23/14 11:57	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/23/14 11:57	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/23/14 11:57	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 11:57	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/23/14 11:57	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/23/14 11:57	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 11:57	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/23/14 11:57	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 11:57	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/23/14 11:57	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/23/14 11:57	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/23/14 11:57	1
Benzene	<0.074		0.50	0.074	ug/L			04/23/14 11:57	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/23/14 11:57	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/23/14 11:57	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/23/14 11:57	1
Bromoform	<0.28		1.0	0.28	ug/L			04/23/14 11:57	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/23/14 11:57	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/23/14 11:57	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/23/14 11:57	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/23/14 11:57	1
Chloroform	<0.20		1.0	0.20	ug/L			04/23/14 11:57	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/23/14 11:57	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/23/14 11:57	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/23/14 11:57	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/23/14 11:57	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/23/14 11:57	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/23/14 11:57	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/23/14 11:57	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/23/14 11:57	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/23/14 11:57	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 11:57	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/23/14 11:57	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/23/14 11:57	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/23/14 11:57	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 11:57	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 11:57	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/23/14 11:57	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75442-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-75442-1

Date Collected: 04/18/14 00:00

Matrix: Water

Date Received: 04/21/14 09:50

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			04/23/14 11:57	1
Styrene	<0.10		1.0	0.10	ug/L			04/23/14 11:57	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 11:57	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/23/14 11:57	1
Toluene	<0.11		0.50	0.11	ug/L			04/23/14 11:57	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/23/14 11:57	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/23/14 11:57	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/23/14 11:57	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/23/14 11:57	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/23/14 11:57	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/23/14 11:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125					04/23/14 11:57	1
4-Bromofluorobenzene (Surr)	90		75 - 120					04/23/14 11:57	1
Dibromofluoromethane	91		75 - 120					04/23/14 11:57	1
Toluene-d8 (Surr)	94		75 - 120					04/23/14 11:57	1

Client Sample ID: MW-22D

Lab Sample ID: 500-75442-2

Date Collected: 04/18/14 08:45

Matrix: Water

Date Received: 04/21/14 09:50

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			04/23/14 12:24	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/23/14 12:24	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/23/14 12:24	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 12:24	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/23/14 12:24	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/23/14 12:24	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/23/14 12:24	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/23/14 12:24	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/23/14 12:24	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/23/14 12:24	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 12:24	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/23/14 12:24	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/23/14 12:24	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/23/14 12:24	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 12:24	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/23/14 12:24	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/23/14 12:24	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 12:24	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/23/14 12:24	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 12:24	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/23/14 12:24	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/23/14 12:24	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/23/14 12:24	1
Benzene	<0.074		0.50	0.074	ug/L			04/23/14 12:24	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/23/14 12:24	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/23/14 12:24	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75442-1

Client Sample ID: MW-22D

Lab Sample ID: 500-75442-2

Date Collected: 04/18/14 08:45

Matrix: Water

Date Received: 04/21/14 09:50

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			04/23/14 12:24	1
Bromoform	<0.28		1.0	0.28	ug/L			04/23/14 12:24	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/23/14 12:24	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/23/14 12:24	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/23/14 12:24	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/23/14 12:24	1
Chloroform	<0.20		1.0	0.20	ug/L			04/23/14 12:24	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/23/14 12:24	1
cis-1,2-Dichloroethene	2.6		1.0	0.12	ug/L			04/23/14 12:24	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/23/14 12:24	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/23/14 12:24	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/23/14 12:24	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/23/14 12:24	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/23/14 12:24	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/23/14 12:24	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/23/14 12:24	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 12:24	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/23/14 12:24	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/23/14 12:24	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/23/14 12:24	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 12:24	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 12:24	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/23/14 12:24	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/23/14 12:24	1
Styrene	<0.10		1.0	0.10	ug/L			04/23/14 12:24	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 12:24	1
Toluene	<0.11		0.50	0.11	ug/L			04/23/14 12:24	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/23/14 12:24	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/23/14 12:24	1
Trichloroethene	6.8		0.50	0.19	ug/L			04/23/14 12:24	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/23/14 12:24	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/23/14 12:24	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/23/14 12:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125		04/23/14 12:24	1
4-Bromofluorobenzene (Surr)	88		75 - 120		04/23/14 12:24	1
Dibromofluoromethane	90		75 - 120		04/23/14 12:24	1
Toluene-d8 (Surr)	94		75 - 120		04/23/14 12:24	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	430		10	1.7	ug/L			04/23/14 12:51	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125		04/23/14 12:51	10
4-Bromofluorobenzene (Surr)	89		75 - 120		04/23/14 12:51	10
Dibromofluoromethane	90		75 - 120		04/23/14 12:51	10
Toluene-d8 (Surr)	95		75 - 120		04/23/14 12:51	10

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75442-1

Client Sample ID: MW-22D

Lab Sample ID: 500-75442-2

Date Collected: 04/18/14 08:45

Matrix: Water

Date Received: 04/21/14 09:50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.065		0.39	0.065	ug/L		04/25/14 10:21	04/26/14 08:30	1
PCB-1221	<0.19		0.39	0.19	ug/L		04/25/14 10:21	04/26/14 08:30	1
PCB-1232	<0.19		0.39	0.19	ug/L		04/25/14 10:21	04/26/14 08:30	1
PCB-1242	<0.19		0.39	0.19	ug/L		04/25/14 10:21	04/26/14 08:30	1
PCB-1248	<0.19		0.39	0.19	ug/L		04/25/14 10:21	04/26/14 08:30	1
PCB-1254	<0.19		0.39	0.19	ug/L		04/25/14 10:21	04/26/14 08:30	1
PCB-1260	<0.067		0.39	0.067	ug/L		04/25/14 10:21	04/26/14 08:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	75		50 - 120				04/25/14 10:21	04/26/14 08:30	1
DCB Decachlorobiphenyl	71		29 - 126				04/25/14 10:21	04/26/14 08:30	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.066		0.40	0.066	ug/L		04/21/14 20:06	04/22/14 11:44	1
PCB-1221	<0.20		0.40	0.20	ug/L		04/21/14 20:06	04/22/14 11:44	1
PCB-1232	<0.20		0.40	0.20	ug/L		04/21/14 20:06	04/22/14 11:44	1
PCB-1242	<0.20		0.40	0.20	ug/L		04/21/14 20:06	04/22/14 11:44	1
PCB-1248	<0.20		0.40	0.20	ug/L		04/21/14 20:06	04/22/14 11:44	1
PCB-1254	<0.20		0.40	0.20	ug/L		04/21/14 20:06	04/22/14 11:44	1
PCB-1260	<0.069		0.40	0.069	ug/L		04/21/14 20:06	04/22/14 11:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	83		50 - 120				04/21/14 20:06	04/22/14 11:44	1
DCB Decachlorobiphenyl	116		29 - 126				04/21/14 20:06	04/22/14 11:44	1

Client Sample ID: DUP-2

Lab Sample ID: 500-75442-3

Date Collected: 04/18/14 00:00

Matrix: Water

Date Received: 04/21/14 09:50

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			04/23/14 13:19	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/23/14 13:19	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/23/14 13:19	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 13:19	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/23/14 13:19	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/23/14 13:19	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/23/14 13:19	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/23/14 13:19	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/23/14 13:19	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/23/14 13:19	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 13:19	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/23/14 13:19	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/23/14 13:19	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/23/14 13:19	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 13:19	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/23/14 13:19	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/23/14 13:19	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 13:19	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75442-1

Client Sample ID: DUP-2

Lab Sample ID: 500-75442-3

Date Collected: 04/18/14 00:00

Matrix: Water

Date Received: 04/21/14 09:50

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			04/23/14 13:19	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 13:19	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/23/14 13:19	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/23/14 13:19	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/23/14 13:19	1
Benzene	<0.074		0.50	0.074	ug/L			04/23/14 13:19	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/23/14 13:19	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/23/14 13:19	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/23/14 13:19	1
Bromoform	<0.28		1.0	0.28	ug/L			04/23/14 13:19	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/23/14 13:19	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/23/14 13:19	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/23/14 13:19	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/23/14 13:19	1
Chloroform	<0.20		1.0	0.20	ug/L			04/23/14 13:19	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/23/14 13:19	1
cis-1,2-Dichloroethene	2.5		1.0	0.12	ug/L			04/23/14 13:19	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/23/14 13:19	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/23/14 13:19	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/23/14 13:19	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/23/14 13:19	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/23/14 13:19	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/23/14 13:19	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/23/14 13:19	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 13:19	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/23/14 13:19	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/23/14 13:19	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/23/14 13:19	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 13:19	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 13:19	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/23/14 13:19	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/23/14 13:19	1
Styrene	<0.10		1.0	0.10	ug/L			04/23/14 13:19	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 13:19	1
Toluene	<0.11		0.50	0.11	ug/L			04/23/14 13:19	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/23/14 13:19	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/23/14 13:19	1
Trichloroethene	6.7		0.50	0.19	ug/L			04/23/14 13:19	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/23/14 13:19	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/23/14 13:19	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/23/14 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 125		04/23/14 13:19	1
4-Bromofluorobenzene (Surr)	88		75 - 120		04/23/14 13:19	1
Dibromofluoromethane	93		75 - 120		04/23/14 13:19	1
Toluene-d8 (Surr)	95		75 - 120		04/23/14 13:19	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75442-1

Client Sample ID: DUP-2

Lab Sample ID: 500-75442-3

Date Collected: 04/18/14 00:00

Matrix: Water

Date Received: 04/21/14 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	450		10	1.7	ug/L			04/23/14 13:47	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125					04/23/14 13:47	10
4-Bromofluorobenzene (Surr)	90		75 - 120					04/23/14 13:47	10
Dibromofluoromethane	92		75 - 120					04/23/14 13:47	10
Toluene-d8 (Surr)	93		75 - 120					04/23/14 13:47	10

Client Sample ID: MW-22S

Lab Sample ID: 500-75442-4

Date Collected: 04/18/14 10:10

Matrix: Water

Date Received: 04/21/14 09:50

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			04/23/14 14:14	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/23/14 14:14	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/23/14 14:14	1
1,1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 14:14	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/23/14 14:14	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/23/14 14:14	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/23/14 14:14	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/23/14 14:14	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/23/14 14:14	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/23/14 14:14	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 14:14	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/23/14 14:14	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/23/14 14:14	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/23/14 14:14	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 14:14	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/23/14 14:14	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/23/14 14:14	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 14:14	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/23/14 14:14	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 14:14	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/23/14 14:14	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/23/14 14:14	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/23/14 14:14	1
Benzene	<0.074		0.50	0.074	ug/L			04/23/14 14:14	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/23/14 14:14	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/23/14 14:14	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/23/14 14:14	1
Bromoform	<0.28		1.0	0.28	ug/L			04/23/14 14:14	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/23/14 14:14	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/23/14 14:14	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/23/14 14:14	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/23/14 14:14	1
Chloroform	<0.20		1.0	0.20	ug/L			04/23/14 14:14	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/23/14 14:14	1
cis-1,2-Dichloroethene	46		1.0	0.12	ug/L			04/23/14 14:14	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/23/14 14:14	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75442-1

Client Sample ID: MW-22S

Lab Sample ID: 500-75442-4

Date Collected: 04/18/14 10:10

Matrix: Water

Date Received: 04/21/14 09:50

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			04/23/14 14:14	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/23/14 14:14	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/23/14 14:14	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/23/14 14:14	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/23/14 14:14	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/23/14 14:14	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 14:14	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/23/14 14:14	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/23/14 14:14	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/23/14 14:14	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 14:14	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 14:14	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/23/14 14:14	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/23/14 14:14	1
Styrene	<0.10		1.0	0.10	ug/L			04/23/14 14:14	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 14:14	1
Tetrachloroethene	23		1.0	0.17	ug/L			04/23/14 14:14	1
Toluene	<0.11		0.50	0.11	ug/L			04/23/14 14:14	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/23/14 14:14	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/23/14 14:14	1
Trichloroethene	4.2		0.50	0.19	ug/L			04/23/14 14:14	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/23/14 14:14	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/23/14 14:14	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/23/14 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125		04/23/14 14:14	1
4-Bromofluorobenzene (Surr)	89		75 - 120		04/23/14 14:14	1
Dibromofluoromethane	89		75 - 120		04/23/14 14:14	1
Toluene-d8 (Surr)	93		75 - 120		04/23/14 14:14	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.065		0.39	0.065	ug/L		04/25/14 10:21	04/26/14 08:44	1
PCB-1221	<0.20		0.39	0.20	ug/L		04/25/14 10:21	04/26/14 08:44	1
PCB-1232	<0.20		0.39	0.20	ug/L		04/25/14 10:21	04/26/14 08:44	1
PCB-1242	7.1		0.39	0.20	ug/L		04/25/14 10:21	04/26/14 08:44	1
PCB-1248	<0.20		0.39	0.20	ug/L		04/25/14 10:21	04/26/14 08:44	1
PCB-1254	<0.20		0.39	0.20	ug/L		04/25/14 10:21	04/26/14 08:44	1
PCB-1260	<0.068		0.39	0.068	ug/L		04/25/14 10:21	04/26/14 08:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	74		50 - 120	04/25/14 10:21	04/26/14 08:44	1
DCB Decachlorobiphenyl	68		29 - 126	04/25/14 10:21	04/26/14 08:44	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.067		0.40	0.067	ug/L		04/21/14 20:06	04/22/14 11:59	1
PCB-1221	<0.20		0.40	0.20	ug/L		04/21/14 20:06	04/22/14 11:59	1
PCB-1232	<0.20		0.40	0.20	ug/L		04/21/14 20:06	04/22/14 11:59	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75442-1

Client Sample ID: MW-22S

Lab Sample ID: 500-75442-4

Date Collected: 04/18/14 10:10

Matrix: Water

Date Received: 04/21/14 09:50

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	0.28	J	0.40	0.20	ug/L		04/21/14 20:06	04/22/14 11:59	1
PCB-1248	<0.20		0.40	0.20	ug/L		04/21/14 20:06	04/22/14 11:59	1
PCB-1254	<0.20		0.40	0.20	ug/L		04/21/14 20:06	04/22/14 11:59	1
PCB-1260	<0.070		0.40	0.070	ug/L		04/21/14 20:06	04/22/14 11:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	17	X	50 - 120				04/21/14 20:06	04/22/14 11:59	1
DCB Decachlorobiphenyl	23	X	29 - 126				04/21/14 20:06	04/22/14 11:59	1

Client Sample ID: MW-23D

Lab Sample ID: 500-75442-5

Date Collected: 04/18/14 11:37

Matrix: Water

Date Received: 04/21/14 09:50

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			04/23/14 14:42	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/23/14 14:42	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/23/14 14:42	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 14:42	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/23/14 14:42	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/23/14 14:42	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/23/14 14:42	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/23/14 14:42	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/23/14 14:42	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/23/14 14:42	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 14:42	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/23/14 14:42	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/23/14 14:42	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/23/14 14:42	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 14:42	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/23/14 14:42	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/23/14 14:42	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 14:42	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/23/14 14:42	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 14:42	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/23/14 14:42	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/23/14 14:42	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/23/14 14:42	1
Benzene	<0.074		0.50	0.074	ug/L			04/23/14 14:42	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/23/14 14:42	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/23/14 14:42	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/23/14 14:42	1
Bromoform	<0.28		1.0	0.28	ug/L			04/23/14 14:42	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/23/14 14:42	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/23/14 14:42	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/23/14 14:42	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/23/14 14:42	1
Chloroform	<0.20		1.0	0.20	ug/L			04/23/14 14:42	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/23/14 14:42	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/23/14 14:42	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75442-1

Client Sample ID: MW-23D

Lab Sample ID: 500-75442-5

Date Collected: 04/18/14 11:37

Matrix: Water

Date Received: 04/21/14 09:50

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			04/23/14 14:42	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/23/14 14:42	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/23/14 14:42	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/23/14 14:42	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/23/14 14:42	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/23/14 14:42	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/23/14 14:42	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 14:42	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/23/14 14:42	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/23/14 14:42	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/23/14 14:42	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 14:42	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 14:42	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/23/14 14:42	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/23/14 14:42	1
Styrene	<0.10		1.0	0.10	ug/L			04/23/14 14:42	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 14:42	1
Tetrachloroethene	190		1.0	0.17	ug/L			04/23/14 14:42	1
Toluene	<0.11		0.50	0.11	ug/L			04/23/14 14:42	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/23/14 14:42	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/23/14 14:42	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/23/14 14:42	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/23/14 14:42	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/23/14 14:42	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/23/14 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 125		04/23/14 14:42	1
4-Bromofluorobenzene (Surr)	91		75 - 120		04/23/14 14:42	1
Dibromofluoromethane	90		75 - 120		04/23/14 14:42	1
Toluene-d8 (Surr)	95		75 - 120		04/23/14 14:42	1

Client Sample ID: MW-23S

Lab Sample ID: 500-75442-6

Date Collected: 04/18/14 13:23

Matrix: Water

Date Received: 04/21/14 09:50

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			04/23/14 15:36	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/23/14 15:36	1
1,1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/23/14 15:36	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 15:36	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/23/14 15:36	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/23/14 15:36	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/23/14 15:36	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/23/14 15:36	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/23/14 15:36	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/23/14 15:36	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 15:36	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/23/14 15:36	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75442-1

Client Sample ID: MW-23S

Lab Sample ID: 500-75442-6

Date Collected: 04/18/14 13:23

Matrix: Water

Date Received: 04/21/14 09:50

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			04/23/14 15:36	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/23/14 15:36	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 15:36	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/23/14 15:36	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/23/14 15:36	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 15:36	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/23/14 15:36	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 15:36	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/23/14 15:36	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/23/14 15:36	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/23/14 15:36	1
Benzene	<0.074		0.50	0.074	ug/L			04/23/14 15:36	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/23/14 15:36	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/23/14 15:36	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/23/14 15:36	1
Bromoform	<0.28		1.0	0.28	ug/L			04/23/14 15:36	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/23/14 15:36	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/23/14 15:36	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/23/14 15:36	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/23/14 15:36	1
Chloroform	<0.20		1.0	0.20	ug/L			04/23/14 15:36	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/23/14 15:36	1
cis-1,2-Dichloroethene	16		1.0	0.12	ug/L			04/23/14 15:36	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/23/14 15:36	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/23/14 15:36	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/23/14 15:36	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/23/14 15:36	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/23/14 15:36	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/23/14 15:36	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/23/14 15:36	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 15:36	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/23/14 15:36	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/23/14 15:36	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/23/14 15:36	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 15:36	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 15:36	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/23/14 15:36	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/23/14 15:36	1
Styrene	<0.10		1.0	0.10	ug/L			04/23/14 15:36	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 15:36	1
Toluene	<0.11		0.50	0.11	ug/L			04/23/14 15:36	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/23/14 15:36	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/23/14 15:36	1
Trichloroethene	11		0.50	0.19	ug/L			04/23/14 15:36	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/23/14 15:36	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/23/14 15:36	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/23/14 15:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125		04/23/14 15:36	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75442-1

Client Sample ID: MW-23S

Lab Sample ID: 500-75442-6

Date Collected: 04/18/14 13:23

Matrix: Water

Date Received: 04/21/14 09:50

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		75 - 120		04/23/14 15:36	1
Dibromofluoromethane	91		75 - 120		04/23/14 15:36	1
Toluene-d8 (Surr)	92		75 - 120		04/23/14 15:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	210		10	1.7	ug/L			04/23/14 16:04	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125		04/23/14 16:04	10
4-Bromofluorobenzene (Surr)	90		75 - 120		04/23/14 16:04	10
Dibromofluoromethane	91		75 - 120		04/23/14 16:04	10
Toluene-d8 (Surr)	94		75 - 120		04/23/14 16:04	10

Client Sample ID: MW-3D

Lab Sample ID: 500-75442-7

Date Collected: 04/18/14 15:35

Matrix: Water

Date Received: 04/21/14 09:50

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			04/23/14 16:31	2
1,1,1-Trichloroethane	<0.40		2.0	0.40	ug/L			04/23/14 16:31	2
1,1,2,2-Tetrachloroethane	<0.46		2.0	0.46	ug/L			04/23/14 16:31	2
1,1,2-Trichloroethane	<0.56		2.0	0.56	ug/L			04/23/14 16:31	2
1,1-Dichloroethane	<0.38		2.0	0.38	ug/L			04/23/14 16:31	2
1,1-Dichloroethene	<0.62		2.0	0.62	ug/L			04/23/14 16:31	2
1,1-Dichloropropene	<0.68		2.0	0.68	ug/L			04/23/14 16:31	2
1,2,3-Trichlorobenzene	<0.48		2.0	0.48	ug/L			04/23/14 16:31	2
1,2,3-Trichloropropane	<0.90		2.0	0.90	ug/L			04/23/14 16:31	2
1,2,4-Trichlorobenzene	<0.62		2.0	0.62	ug/L			04/23/14 16:31	2
1,2,4-Trimethylbenzene	<0.28		2.0	0.28	ug/L			04/23/14 16:31	2
1,2-Dibromo-3-Chloropropane	<1.7		4.0	1.7	ug/L			04/23/14 16:31	2
1,2-Dibromoethane	<0.72		2.0	0.72	ug/L			04/23/14 16:31	2
1,2-Dichlorobenzene	<0.54		2.0	0.54	ug/L			04/23/14 16:31	2
1,2-Dichloroethane	<0.56		2.0	0.56	ug/L			04/23/14 16:31	2
1,2-Dichloropropane	<0.40		2.0	0.40	ug/L			04/23/14 16:31	2
1,3,5-Trimethylbenzene	<0.36		2.0	0.36	ug/L			04/23/14 16:31	2
1,3-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/23/14 16:31	2
1,3-Dichloropropane	<0.26		2.0	0.26	ug/L			04/23/14 16:31	2
1,4-Dichlorobenzene	<0.30		2.0	0.30	ug/L			04/23/14 16:31	2
2,2-Dichloropropane	<0.64		2.0	0.64	ug/L			04/23/14 16:31	2
2-Chlorotoluene	<0.42		2.0	0.42	ug/L			04/23/14 16:31	2
4-Chlorotoluene	<0.40		2.0	0.40	ug/L			04/23/14 16:31	2
Benzene	<0.15		1.0	0.15	ug/L			04/23/14 16:31	2
Bromobenzene	<0.50		2.0	0.50	ug/L			04/23/14 16:31	2
Bromochloromethane	<0.80		2.0	0.80	ug/L			04/23/14 16:31	2
Bromodichloromethane	<0.34		2.0	0.34	ug/L			04/23/14 16:31	2
Bromoform	<0.56		2.0	0.56	ug/L			04/23/14 16:31	2
Bromomethane	<0.62		2.0	0.62	ug/L			04/23/14 16:31	2
Carbon tetrachloride	<0.52		2.0	0.52	ug/L			04/23/14 16:31	2

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75442-1

Client Sample ID: MW-3D

Lab Sample ID: 500-75442-7

Date Collected: 04/18/14 15:35

Matrix: Water

Date Received: 04/21/14 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<0.28		2.0	0.28	ug/L			04/23/14 16:31	2
Chloroethane	<0.68		2.0	0.68	ug/L			04/23/14 16:31	2
Chloroform	<0.40		2.0	0.40	ug/L			04/23/14 16:31	2
Chloromethane	<0.36		2.0	0.36	ug/L			04/23/14 16:31	2
cis-1,2-Dichloroethene	170		2.0	0.24	ug/L			04/23/14 16:31	2
cis-1,3-Dichloropropene	<0.36		2.0	0.36	ug/L			04/23/14 16:31	2
Dibromochloromethane	<0.64		2.0	0.64	ug/L			04/23/14 16:31	2
Dibromomethane	<0.66		2.0	0.66	ug/L			04/23/14 16:31	2
Dichlorodifluoromethane	<0.40		2.0	0.40	ug/L			04/23/14 16:31	2
Ethylbenzene	<0.26		1.0	0.26	ug/L			04/23/14 16:31	2
Hexachlorobutadiene	<0.52		2.0	0.52	ug/L			04/23/14 16:31	2
Isopropyl ether	<0.30		2.0	0.30	ug/L			04/23/14 16:31	2
Isopropylbenzene	<0.28		2.0	0.28	ug/L			04/23/14 16:31	2
Methyl tert-butyl ether	<0.48		2.0	0.48	ug/L			04/23/14 16:31	2
Methylene Chloride	<1.4		10	1.4	ug/L			04/23/14 16:31	2
Naphthalene	<0.32		2.0	0.32	ug/L			04/23/14 16:31	2
n-Butylbenzene	<0.26		2.0	0.26	ug/L			04/23/14 16:31	2
N-Propylbenzene	<0.26		2.0	0.26	ug/L			04/23/14 16:31	2
p-Isopropyltoluene	<0.34		2.0	0.34	ug/L			04/23/14 16:31	2
sec-Butylbenzene	<0.30		2.0	0.30	ug/L			04/23/14 16:31	2
Styrene	<0.20		2.0	0.20	ug/L			04/23/14 16:31	2
tert-Butylbenzene	<0.28		2.0	0.28	ug/L			04/23/14 16:31	2
Toluene	<0.22		1.0	0.22	ug/L			04/23/14 16:31	2
trans-1,2-Dichloroethene	6.4		2.0	0.50	ug/L			04/23/14 16:31	2
trans-1,3-Dichloropropene	<0.42		2.0	0.42	ug/L			04/23/14 16:31	2
Trichloroethene	130		1.0	0.38	ug/L			04/23/14 16:31	2
Trichlorofluoromethane	<0.38		2.0	0.38	ug/L			04/23/14 16:31	2
Vinyl chloride	<0.20		1.0	0.20	ug/L			04/23/14 16:31	2
Xylenes, Total	<0.14		2.0	0.14	ug/L			04/23/14 16:31	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 125		04/23/14 16:31	2
4-Bromofluorobenzene (Surr)	91		75 - 120		04/23/14 16:31	2
Dibromofluoromethane	92		75 - 120		04/23/14 16:31	2
Toluene-d8 (Surr)	93		75 - 120		04/23/14 16:31	2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	730		20	3.4	ug/L			04/23/14 16:58	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 125		04/23/14 16:58	20
4-Bromofluorobenzene (Surr)	91		75 - 120		04/23/14 16:58	20
Dibromofluoromethane	91		75 - 120		04/23/14 16:58	20
Toluene-d8 (Surr)	93		75 - 120		04/23/14 16:58	20

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75442-1

Client Sample ID: MW-27D

Lab Sample ID: 500-75442-8

Date Collected: 04/18/14 15:30

Matrix: Water

Date Received: 04/21/14 09:50

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			04/23/14 17:25	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/23/14 17:25	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/23/14 17:25	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 17:25	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/23/14 17:25	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/23/14 17:25	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/23/14 17:25	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/23/14 17:25	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/23/14 17:25	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/23/14 17:25	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 17:25	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/23/14 17:25	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/23/14 17:25	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/23/14 17:25	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 17:25	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/23/14 17:25	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/23/14 17:25	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 17:25	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/23/14 17:25	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 17:25	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/23/14 17:25	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/23/14 17:25	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/23/14 17:25	1
Benzene	<0.074		0.50	0.074	ug/L			04/23/14 17:25	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/23/14 17:25	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/23/14 17:25	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/23/14 17:25	1
Bromoform	<0.28		1.0	0.28	ug/L			04/23/14 17:25	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/23/14 17:25	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/23/14 17:25	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/23/14 17:25	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/23/14 17:25	1
Chloroform	<0.20		1.0	0.20	ug/L			04/23/14 17:25	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/23/14 17:25	1
cis-1,2-Dichloroethene	2.6		1.0	0.12	ug/L			04/23/14 17:25	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/23/14 17:25	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/23/14 17:25	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/23/14 17:25	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/23/14 17:25	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/23/14 17:25	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/23/14 17:25	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/23/14 17:25	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 17:25	1
Methyl tert-butyl ether	1.3		1.0	0.24	ug/L			04/23/14 17:25	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/23/14 17:25	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/23/14 17:25	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 17:25	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 17:25	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/23/14 17:25	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75442-1

Client Sample ID: MW-27D

Lab Sample ID: 500-75442-8

Date Collected: 04/18/14 15:30

Matrix: Water

Date Received: 04/21/14 09:50

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			04/23/14 17:25	1
Styrene	<0.10		1.0	0.10	ug/L			04/23/14 17:25	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 17:25	1
Tetrachloroethene	5.4		1.0	0.17	ug/L			04/23/14 17:25	1
Toluene	<0.11		0.50	0.11	ug/L			04/23/14 17:25	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/23/14 17:25	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/23/14 17:25	1
Trichloroethene	3.5		0.50	0.19	ug/L			04/23/14 17:25	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/23/14 17:25	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/23/14 17:25	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/23/14 17:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>1,2-Dichloroethane-d4 (Surr)</i>	101		75 - 125					04/23/14 17:25	1
<i>4-Bromofluorobenzene (Surr)</i>	91		75 - 120					04/23/14 17:25	1
<i>Dibromofluoromethane</i>	90		75 - 120					04/23/14 17:25	1
<i>Toluene-d8 (Surr)</i>	93		75 - 120					04/23/14 17:25	1

Client Sample ID: MW-27D2

Lab Sample ID: 500-75442-9

Date Collected: 04/18/14 17:35

Matrix: Water

Date Received: 04/21/14 09:50

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			04/23/14 17:53	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/23/14 17:53	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/23/14 17:53	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 17:53	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/23/14 17:53	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/23/14 17:53	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/23/14 17:53	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/23/14 17:53	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/23/14 17:53	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/23/14 17:53	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 17:53	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/23/14 17:53	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/23/14 17:53	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/23/14 17:53	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 17:53	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/23/14 17:53	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/23/14 17:53	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 17:53	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/23/14 17:53	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 17:53	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/23/14 17:53	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/23/14 17:53	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/23/14 17:53	1
Benzene	<0.074		0.50	0.074	ug/L			04/23/14 17:53	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/23/14 17:53	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/23/14 17:53	1

TestAmerica Chicago

Client Sample Results

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

TestAmerica Job ID: 500-75442-1

Client Sample ID: MW-27D2

Lab Sample ID: 500-75442-9

Date Collected: 04/18/14 17:35

Matrix: Water

Date Received: 04/21/14 09:50

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			04/23/14 17:53	1
Bromoform	<0.28		1.0	0.28	ug/L			04/23/14 17:53	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/23/14 17:53	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/23/14 17:53	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/23/14 17:53	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/23/14 17:53	1
Chloroform	<0.20		1.0	0.20	ug/L			04/23/14 17:53	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/23/14 17:53	1
cis-1,2-Dichloroethene	12		1.0	0.12	ug/L			04/23/14 17:53	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/23/14 17:53	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/23/14 17:53	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/23/14 17:53	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/23/14 17:53	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/23/14 17:53	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/23/14 17:53	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/23/14 17:53	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 17:53	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/23/14 17:53	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/23/14 17:53	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/23/14 17:53	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 17:53	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 17:53	1
p-Isopropyltoluene	<0.17		1.0	0.17	ug/L			04/23/14 17:53	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/23/14 17:53	1
Styrene	<0.10		1.0	0.10	ug/L			04/23/14 17:53	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 17:53	1
Tetrachloroethene	44		1.0	0.17	ug/L			04/23/14 17:53	1
Toluene	<0.11		0.50	0.11	ug/L			04/23/14 17:53	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/23/14 17:53	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/23/14 17:53	1
Trichloroethene	25		0.50	0.19	ug/L			04/23/14 17:53	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/23/14 17:53	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/23/14 17:53	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/23/14 17:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 125		04/23/14 17:53	1
4-Bromofluorobenzene (Surr)	92		75 - 120		04/23/14 17:53	1
Dibromofluoromethane	91		75 - 120		04/23/14 17:53	1
Toluene-d8 (Surr)	93		75 - 120		04/23/14 17:53	1

Definitions/Glossary

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

TestAmerica Job ID: 500-75442-1

Qualifiers

GC Semi 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.

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
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: 500-75442-1

GC/MS VOA

Analysis Batch: 232783

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-75442-1	Trip Blank	Total/NA	Water	8260B	
500-75442-2	MW-22D	Total/NA	Water	8260B	
500-75442-2 - DL	MW-22D	Total/NA	Water	8260B	
500-75442-3	DUP-2	Total/NA	Water	8260B	
500-75442-3 - DL	DUP-2	Total/NA	Water	8260B	
500-75442-4	MW-22S	Total/NA	Water	8260B	
500-75442-5	MW-23D	Total/NA	Water	8260B	
500-75442-6	MW-23S	Total/NA	Water	8260B	
500-75442-6 - DL	MW-23S	Total/NA	Water	8260B	
500-75442-7	MW-3D	Total/NA	Water	8260B	
500-75442-7 - DL	MW-3D	Total/NA	Water	8260B	
500-75442-8	MW-27D	Total/NA	Water	8260B	
500-75442-9	MW-27D2	Total/NA	Water	8260B	
LCS 500-232783/4	Lab Control Sample	Total/NA	Water	8260B	
MB 500-232783/6	Method Blank	Total/NA	Water	8260B	

GC Semi VOA

Prep Batch: 232541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-75442-2	MW-22D	Dissolved	Water	3510C	
500-75442-4	MW-22S	Dissolved	Water	3510C	
LCS 500-232541/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 500-232541/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	
MB 500-232541/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 232595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-75442-2	MW-22D	Dissolved	Water	8082	232541
500-75442-4	MW-22S	Dissolved	Water	8082	232541
LCS 500-232541/4-A	Lab Control Sample	Total/NA	Water	8082	232541
LCS 500-232541/5-A	Lab Control Sample Dup	Total/NA	Water	8082	232541
MB 500-232541/1-A	Method Blank	Total/NA	Water	8082	232541

Prep Batch: 233290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-75442-2	MW-22D	Total/NA	Water	3510C	
500-75442-4	MW-22S	Total/NA	Water	3510C	
LCS 500-233290/2-A	Lab Control Sample	Total/NA	Water	3510C	
MB 500-233290/1-A	Method Blank	Total/NA	Water	3510C	

Analysis Batch: 233430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-75442-2	MW-22D	Total/NA	Water	8082	233290
500-75442-4	MW-22S	Total/NA	Water	8082	233290
LCS 500-233290/2-A	Lab Control Sample	Total/NA	Water	8082	233290
MB 500-233290/1-A	Method Blank	Total/NA	Water	8082	233290

Surrogate Summary

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

TestAmerica Job ID: 500-75442-1

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)
500-75442-1	Trip Blank	100	90	91	94
500-75442-2	MW-22D	100	88	90	94
500-75442-2 - DL	MW-22D	100	89	90	95
500-75442-3	DUP-2	102	88	93	95
500-75442-3 - DL	DUP-2	100	90	92	93
500-75442-4	MW-22S	100	89	89	93
500-75442-5	MW-23D	101	91	90	95
500-75442-6	MW-23S	100	90	91	92
500-75442-6 - DL	MW-23S	100	90	91	94
500-75442-7	MW-3D	103	91	92	93
500-75442-7 - DL	MW-3D	100	91	91	93
500-75442-8	MW-27D	101	91	90	93
500-75442-9	MW-27D2	101	92	91	93
LCS 500-232783/4	Lab Control Sample	102	88	93	94
MB 500-232783/6	Method Blank	101	89	91	93

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)
500-75442-2	MW-22D	75	71
500-75442-4	MW-22S	74	68
LCS 500-232541/4-A	Lab Control Sample	79	111
LCS 500-233290/2-A	Lab Control Sample	79	77
LCSD 500-232541/5-A	Lab Control Sample Dup	78	100
MB 500-232541/1-A	Method Blank	75	107
MB 500-233290/1-A	Method Blank	77	72

Surrogate Legend

TCX = Tetrachloro-m-xylene
 DCB = DCB Decachlorobiphenyl

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Dissolved

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (50-120)	DCB2 (29-126)
500-75442-2	MW-22D	83	116
500-75442-4	MW-22S	17 X	23 X

Surrogate Legend

TestAmerica Chicago

Surrogate Summary

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

TestAmerica Job ID: 500-75442-1

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

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QC Sample Results

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

TestAmerica Job ID: 500-75442-1

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

Lab Sample ID: MB 500-232783/6

Matrix: Water

Analysis Batch: 232783

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			04/23/14 11:29	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/L			04/23/14 11:29	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/L			04/23/14 11:29	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 11:29	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/L			04/23/14 11:29	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/L			04/23/14 11:29	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/L			04/23/14 11:29	1
1,2,3-Trichlorobenzene	<0.24		1.0	0.24	ug/L			04/23/14 11:29	1
1,2,3-Trichloropropane	<0.45		1.0	0.45	ug/L			04/23/14 11:29	1
1,2,4-Trichlorobenzene	<0.31		1.0	0.31	ug/L			04/23/14 11:29	1
1,2,4-Trimethylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 11:29	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/L			04/23/14 11:29	1
1,2-Dibromoethane	<0.36		1.0	0.36	ug/L			04/23/14 11:29	1
1,2-Dichlorobenzene	<0.27		1.0	0.27	ug/L			04/23/14 11:29	1
1,2-Dichloroethane	<0.28		1.0	0.28	ug/L			04/23/14 11:29	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/L			04/23/14 11:29	1
1,3,5-Trimethylbenzene	<0.18		1.0	0.18	ug/L			04/23/14 11:29	1
1,3-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 11:29	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/L			04/23/14 11:29	1
1,4-Dichlorobenzene	<0.15		1.0	0.15	ug/L			04/23/14 11:29	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/L			04/23/14 11:29	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/L			04/23/14 11:29	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/L			04/23/14 11:29	1
Benzene	<0.074		0.50	0.074	ug/L			04/23/14 11:29	1
Bromobenzene	<0.25		1.0	0.25	ug/L			04/23/14 11:29	1
Bromochloromethane	<0.40		1.0	0.40	ug/L			04/23/14 11:29	1
Bromodichloromethane	<0.17		1.0	0.17	ug/L			04/23/14 11:29	1
Bromoform	<0.28		1.0	0.28	ug/L			04/23/14 11:29	1
Bromomethane	<0.31		1.0	0.31	ug/L			04/23/14 11:29	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/L			04/23/14 11:29	1
Chlorobenzene	<0.14		1.0	0.14	ug/L			04/23/14 11:29	1
Chloroethane	<0.34		1.0	0.34	ug/L			04/23/14 11:29	1
Chloroform	<0.20		1.0	0.20	ug/L			04/23/14 11:29	1
Chloromethane	<0.18		1.0	0.18	ug/L			04/23/14 11:29	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/L			04/23/14 11:29	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/L			04/23/14 11:29	1
Dibromochloromethane	<0.32		1.0	0.32	ug/L			04/23/14 11:29	1
Dibromomethane	<0.33		1.0	0.33	ug/L			04/23/14 11:29	1
Dichlorodifluoromethane	<0.20		1.0	0.20	ug/L			04/23/14 11:29	1
Ethylbenzene	<0.13		0.50	0.13	ug/L			04/23/14 11:29	1
Hexachlorobutadiene	<0.26		1.0	0.26	ug/L			04/23/14 11:29	1
Isopropyl ether	<0.15		1.0	0.15	ug/L			04/23/14 11:29	1
Isopropylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 11:29	1
Methyl tert-butyl ether	<0.24		1.0	0.24	ug/L			04/23/14 11:29	1
Methylene Chloride	<0.68		5.0	0.68	ug/L			04/23/14 11:29	1
Naphthalene	<0.16		1.0	0.16	ug/L			04/23/14 11:29	1
n-Butylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 11:29	1
N-Propylbenzene	<0.13		1.0	0.13	ug/L			04/23/14 11:29	1

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75442-1

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

Lab Sample ID: MB 500-232783/6

Matrix: Water

Analysis Batch: 232783

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			04/23/14 11:29	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/L			04/23/14 11:29	1
Styrene	<0.10		1.0	0.10	ug/L			04/23/14 11:29	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/L			04/23/14 11:29	1
Tetrachloroethene	<0.17		1.0	0.17	ug/L			04/23/14 11:29	1
Toluene	<0.11		0.50	0.11	ug/L			04/23/14 11:29	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/L			04/23/14 11:29	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/L			04/23/14 11:29	1
Trichloroethene	<0.19		0.50	0.19	ug/L			04/23/14 11:29	1
Trichlorofluoromethane	<0.19		1.0	0.19	ug/L			04/23/14 11:29	1
Vinyl chloride	<0.10		0.50	0.10	ug/L			04/23/14 11:29	1
Xylenes, Total	<0.068		1.0	0.068	ug/L			04/23/14 11:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 125		04/23/14 11:29	1
4-Bromofluorobenzene (Surr)	89		75 - 120		04/23/14 11:29	1
Dibromofluoromethane	91		75 - 120		04/23/14 11:29	1
Toluene-d8 (Surr)	93		75 - 120		04/23/14 11:29	1

Lab Sample ID: LCS 500-232783/4

Matrix: Water

Analysis Batch: 232783

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	50.0		ug/L		100	75 - 122
1,1,1-Trichloroethane	50.0	47.1		ug/L		94	72 - 130
1,1,2,2-Tetrachloroethane	50.0	45.4		ug/L		91	72 - 130
1,1,2-Trichloroethane	50.0	47.5		ug/L		95	75 - 120
1,1-Dichloroethane	50.0	46.9		ug/L		94	75 - 120
1,1-Dichloroethene	50.0	40.0		ug/L		80	69 - 120
1,1-Dichloropropene	50.0	46.4		ug/L		93	75 - 130
1,2,3-Trichlorobenzene	50.0	54.0		ug/L		108	69 - 131
1,2,3-Trichloropropene	50.0	45.1		ug/L		90	65 - 132
1,2,4-Trichlorobenzene	50.0	51.9		ug/L		104	73 - 130
1,2,4-Trimethylbenzene	50.0	47.0		ug/L		94	75 - 121
1,2-Dibromo-3-Chloropropane	50.0	41.4		ug/L		83	62 - 130
1,2-Dibromoethane	50.0	48.2		ug/L		96	78 - 122
1,2-Dichlorobenzene	50.0	48.6		ug/L		97	75 - 120
1,2-Dichloroethane	50.0	51.6		ug/L		103	69 - 130
1,2-Dichloropropane	50.0	48.1		ug/L		96	75 - 120
1,3,5-Trimethylbenzene	50.0	48.1		ug/L		96	75 - 121
1,3-Dichlorobenzene	50.0	48.0		ug/L		96	75 - 120
1,3-Dichloropropane	50.0	47.9		ug/L		96	77 - 124
1,4-Dichlorobenzene	50.0	47.7		ug/L		95	75 - 120
2,2-Dichloropropane	50.0	44.9		ug/L		90	65 - 132
2-Chlorotoluene	50.0	46.2		ug/L		92	75 - 120
4-Chlorotoluene	50.0	47.0		ug/L		94	75 - 120
Benzene	50.0	44.7		ug/L		89	75 - 120

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75442-1

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

Lab Sample ID: LCS 500-232783/4

Matrix: Water

Analysis Batch: 232783

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	48.0		ug/L		96	75 - 120
Bromochloromethane	50.0	46.3		ug/L		93	76 - 120
Bromodichloromethane	50.0	46.9		ug/L		94	77 - 121
Bromoform	50.0	47.3		ug/L		95	68 - 126
Bromomethane	50.0	57.6		ug/L		115	45 - 169
Carbon tetrachloride	50.0	48.6		ug/L		97	70 - 130
Chlorobenzene	50.0	48.0		ug/L		96	75 - 120
Chloroethane	50.0	61.6		ug/L		123	58 - 147
Chloroform	50.0	46.4		ug/L		93	76 - 120
Chloromethane	50.0	57.8		ug/L		116	63 - 133
cis-1,2-Dichloroethene	50.0	45.6		ug/L		91	75 - 120
cis-1,3-Dichloropropene	50.0	45.8		ug/L		92	78 - 121
Dibromochloromethane	50.0	46.4		ug/L		93	71 - 126
Dibromomethane	50.0	48.1		ug/L		96	75 - 120
Dichlorodifluoromethane	50.0	51.8		ug/L		104	41 - 146
Ethylbenzene	50.0	48.3		ug/L		97	75 - 120
Hexachlorobutadiene	50.0	56.0		ug/L		112	71 - 131
Isopropylbenzene	50.0	47.7		ug/L		95	75 - 121
Methyl tert-butyl ether	50.0	46.0		ug/L		92	75 - 130
Methylene Chloride	50.0	44.2		ug/L		88	73 - 130
Naphthalene	50.0	49.3		ug/L		99	69 - 135
n-Butylbenzene	50.0	49.3		ug/L		99	75 - 121
N-Propylbenzene	50.0	47.7		ug/L		95	75 - 120
p-Isopropyltoluene	50.0	49.6		ug/L		99	75 - 121
sec-Butylbenzene	50.0	48.5		ug/L		97	75 - 120
Styrene	50.0	46.3		ug/L		93	75 - 120
tert-Butylbenzene	50.0	48.3		ug/L		97	75 - 123
Tetrachloroethene	50.0	50.4		ug/L		101	75 - 120
Toluene	50.0	47.6		ug/L		95	75 - 120
trans-1,2-Dichloroethene	50.0	42.8		ug/L		86	77 - 120
trans-1,3-Dichloropropene	50.0	49.6		ug/L		99	74 - 123
Trichloroethene	50.0	47.4		ug/L		95	75 - 120
Trichlorofluoromethane	50.0	57.5		ug/L		115	71 - 130
Vinyl chloride	50.0	51.6		ug/L		103	72 - 123
Xylenes, Total	100	95.0		ug/L		95	75 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	102		75 - 125
4-Bromofluorobenzene (Surr)	88		75 - 120
Dibromofluoromethane	93		75 - 120
Toluene-d8 (Surr)	94		75 - 120

QC Sample Results

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

TestAmerica Job ID: 500-75442-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-232541/1-A
Matrix: Water
Analysis Batch: 232595

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 232541

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.067		0.40	0.067	ug/L		04/21/14 20:06	04/22/14 10:48	1
PCB-1221	<0.20		0.40	0.20	ug/L		04/21/14 20:06	04/22/14 10:48	1
PCB-1232	<0.20		0.40	0.20	ug/L		04/21/14 20:06	04/22/14 10:48	1
PCB-1242	<0.20		0.40	0.20	ug/L		04/21/14 20:06	04/22/14 10:48	1
PCB-1248	<0.20		0.40	0.20	ug/L		04/21/14 20:06	04/22/14 10:48	1
PCB-1254	<0.20		0.40	0.20	ug/L		04/21/14 20:06	04/22/14 10:48	1
PCB-1260	<0.070		0.40	0.070	ug/L		04/21/14 20:06	04/22/14 10:48	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Tetrachloro-m-xylene	75		50 - 120	04/21/14 20:06	04/22/14 10:48	1
DCB Decachlorobiphenyl	107		29 - 126	04/21/14 20:06	04/22/14 10:48	1

Lab Sample ID: LCS 500-232541/4-A
Matrix: Water
Analysis Batch: 232595

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 232541

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
PCB-1016	4.00	3.48		ug/L		87	70 - 130
PCB-1260	4.00	4.73		ug/L		118	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	79		50 - 120
DCB Decachlorobiphenyl	111		29 - 126

Lab Sample ID: LCSD 500-232541/5-A
Matrix: Water
Analysis Batch: 232595

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 232541

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec. Limits	RPD	Limit
		Result	Qualifier						
PCB-1016	4.00	3.50		ug/L		87	70 - 130	1	20
PCB-1260	4.00	4.81		ug/L		120	70 - 130	2	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	78		50 - 120
DCB Decachlorobiphenyl	100		29 - 126

Lab Sample ID: MB 500-233290/1-A
Matrix: Water
Analysis Batch: 233430

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 233290

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PCB-1016	<0.067		0.40	0.067	ug/L		04/25/14 10:21	04/26/14 08:02	1
PCB-1221	<0.20		0.40	0.20	ug/L		04/25/14 10:21	04/26/14 08:02	1
PCB-1232	<0.20		0.40	0.20	ug/L		04/25/14 10:21	04/26/14 08:02	1
PCB-1242	<0.20		0.40	0.20	ug/L		04/25/14 10:21	04/26/14 08:02	1
PCB-1248	<0.20		0.40	0.20	ug/L		04/25/14 10:21	04/26/14 08:02	1
PCB-1254	<0.20		0.40	0.20	ug/L		04/25/14 10:21	04/26/14 08:02	1

TestAmerica Chicago

QC Sample Results

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

TestAmerica Job ID: 500-75442-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-233290/1-A

Matrix: Water

Analysis Batch: 233430

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 233290

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	<0.070		0.40	0.070	ug/L		04/25/14 10:21	04/26/14 08:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	77		50 - 120	04/25/14 10:21	04/26/14 08:02	1
DCB Decachlorobiphenyl	72		29 - 126	04/25/14 10:21	04/26/14 08:02	1

Lab Sample ID: LCS 500-233290/2-A

Matrix: Water

Analysis Batch: 233430

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 233290

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.00	4.43		ug/L		111	70 - 130
PCB-1260	4.00	4.51		ug/L		113	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	79		50 - 120
DCB Decachlorobiphenyl	77		29 - 126

Lab Chronicle

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

TestAmerica Job ID: 500-75442-1

Client Sample ID: Trip Blank

Date Collected: 04/18/14 00:00

Date Received: 04/21/14 09:50

Lab Sample ID: 500-75442-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232783	04/23/14 11:57	BBS	TAL CHI

Client Sample ID: MW-22D

Date Collected: 04/18/14 08:45

Date Received: 04/21/14 09:50

Lab Sample ID: 500-75442-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232783	04/23/14 12:24	BBS	TAL CHI
Total/NA	Analysis	8260B	DL	10	232783	04/23/14 12:51	BBS	TAL CHI
Dissolved	Prep	3510C			232541	04/21/14 20:06	JP1	TAL CHI
Dissolved	Analysis	8082		1	232595	04/22/14 11:44	GMO	TAL CHI
Total/NA	Prep	3510C			233290	04/25/14 10:21	AAS	TAL CHI
Total/NA	Analysis	8082		1	233430	04/26/14 08:30	GMO	TAL CHI

Client Sample ID: DUP-2

Date Collected: 04/18/14 00:00

Date Received: 04/21/14 09:50

Lab Sample ID: 500-75442-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232783	04/23/14 13:19	BBS	TAL CHI
Total/NA	Analysis	8260B	DL	10	232783	04/23/14 13:47	BBS	TAL CHI

Client Sample ID: MW-22S

Date Collected: 04/18/14 10:10

Date Received: 04/21/14 09:50

Lab Sample ID: 500-75442-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232783	04/23/14 14:14	BBS	TAL CHI
Dissolved	Prep	3510C			232541	04/21/14 20:06	JP1	TAL CHI
Dissolved	Analysis	8082		1	232595	04/22/14 11:59	GMO	TAL CHI
Total/NA	Prep	3510C			233290	04/25/14 10:21	AAS	TAL CHI
Total/NA	Analysis	8082		1	233430	04/26/14 08:44	GMO	TAL CHI

Client Sample ID: MW-23D

Date Collected: 04/18/14 11:37

Date Received: 04/21/14 09:50

Lab Sample ID: 500-75442-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232783	04/23/14 14:42	BBS	TAL CHI

Lab Chronicle

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

TestAmerica Job ID: 500-75442-1

Client Sample ID: MW-23S

Lab Sample ID: 500-75442-6

Date Collected: 04/18/14 13:23

Matrix: Water

Date Received: 04/21/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232783	04/23/14 15:36	BBS	TAL CHI
Total/NA	Analysis	8260B	DL	10	232783	04/23/14 16:04	BBS	TAL CHI

Client Sample ID: MW-3D

Lab Sample ID: 500-75442-7

Date Collected: 04/18/14 15:35

Matrix: Water

Date Received: 04/21/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	232783	04/23/14 16:31	BBS	TAL CHI
Total/NA	Analysis	8260B	DL	20	232783	04/23/14 16:58	BBS	TAL CHI

Client Sample ID: MW-27D

Lab Sample ID: 500-75442-8

Date Collected: 04/18/14 15:30

Matrix: Water

Date Received: 04/21/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232783	04/23/14 17:25	BBS	TAL CHI

Client Sample ID: MW-27D2

Lab Sample ID: 500-75442-9

Date Collected: 04/18/14 17:35

Matrix: Water

Date Received: 04/21/14 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	232783	04/23/14 17:53	BBS	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: 500-75442-1

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

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

ID#: _____

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Page 1 of

Lab Work Order # 500-75442

Send Results to:	Contact & Company Name: Jim Alessi ARCADIS	Telephone: 414-276-7742	Preservative B E E							Keys Preservation Key: A. H ₂ SO ₄ B. HCL C. HNO ₃ D. NaOH E. None F. Other: _____ G. Other: _____ H. Other: _____ Matrix Key: SO - Soil SE - Sediment NL - NAPL/Oil W - Water SL - Sludge SW - Sample Wipe T - Tissue A - Air Other: _____
	Address: 126 N. Jefferson St. Ste. 400	Fax: 414-276-7603	Filtered (✓) <input checked="" type="checkbox"/>							
	City Milwaukee	State WI	Zip 53207	# of Containers 3	1	1				
	E-mail Address: Jim.alessi@arcadis-us.com			Container Information 1 9 9						
PARAMETER ANALYSIS & METHOD										
Project Name/Location (City, State): MKE (Madison, WI)	Project #: W1001368.0018.00002	VOCS Method 8060 PFB - unfiltered Method 8080 PFB - Filtered Method 8080								
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 Trip Blank	4/18/2014	-	-	-	W	1						
2 MW-22D	4/18/2014	0845		✓	W	3	1	1				
3 DUP-2	4/18/2014	-		✓	W	3						
4 MW-22S	4/18/2014	1010		✓	W	3	1	1				
5 MW-23D	4/18/2014	1137		✓	W	3						
6 MW-23S	4/18/2014	1323		✓	W	3						
7 MW-3D	4/18/2014	1535		✓	W	3						
8 MW-27D	4/18/2014	1730		✓	W	3						
9 MW-27D2	4/18/2014	1735		✓	W	3						



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: S. Kelsey	Signature: <i>S. Kelsey</i>	Printed Name:	Signature:	Printed Name:	Signature:
<input checked="" type="checkbox"/> Cooler packed with ice (✓)	Sample Receipt: 3.9	Firm: ARCADIS	Date/Time: 4/18/14	Firm/Courier: TAL	Date/Time: 04/21/14 @ 0950	Firm/Courier:	Date/Time:	Firm:	Date/Time:
Specify Turnaround Requirements: Standard	Shipping Tracking #:								

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-75442-1

Login Number: 75442

List Source: TestAmerica Chicago

List Number: 1

Creator: Kelsey, Shawn M

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	3.9c
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.	True	

