

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: 500-47664-1
Client Project/Site: MadisonKipp WI001283.0008.00001

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

Attn: Ms. Toni Schoen



Authorized for release by:
7/11/2012 1:29:15 PM

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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 WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Job ID: 500-47664-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative 500-47664-1

Comments

No additional comments.

Receipt

The samples were received on 6/26/2012 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5° C.

GC/MS VOA

Method(s) 8260B: Due to the large number of spiked analytes, there is a high probability that one or more analytes will recover outside acceptance limits. The laboratory's SOP allows for 3 analytes to recover outside criteria for this method when a full list spike is utilized. The LCS associated with prep batch 154236 had 1 analyte outside control limits. The LCS associated with the analytical batch 154571 had 2 analytes outside control limits; therefore, re-analysis was not performed. These results have been reported and qualified.

No other analytical or quality issues were noted.

GC/MS Semi VOA

Method(s) 8270C: The following sample was diluted due to the abundance of non-target analytes: B-50 (2-4) (500-47664-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 8082: The following sample(s) required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: B-23 (2-4) (500-47664-1), B-50 (2-4) (500-47664-2), B-50 (7-9) (500-47664-3). The reagent lot number used was: K45N05.

Method(s) 8082: The following samples were diluted due to the abundance of target analytes: B-23 (2-4) (500-47664-1), B-50 (2-4) (500-47664-2). Elevated reporting limits (RLs) are provided.

Method(s) 8082: Due to the level of dilution required for the following sample, surrogate recoveries are not reported: B-50 (2-4) (500-47664-2).

Method(s) 8082: The method blank for batch 155091 contained Aroclor 1254 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and re-analysis of samples was not performed. B-23 (2-4) (500-47664-1), B-50 (2-4) (500-47664-2), B-50 (7-9) (500-47664-3)

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Client Sample ID: B-23 (2-4)

Lab Sample ID: 500-47664-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	17	J	42	9.8	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]anthracene	72		42	8.8	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	61		42	7.6	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	85		42	8.1	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	38	J	42	14	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	33	J	42	10	ug/Kg	1	☼	8270C	Total/NA
Chrysene	73		42	9.4	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	140		42	17	ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	32	J	42	14	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	85		42	18	ug/Kg	1	☼	8270C	Total/NA
Pyrene	110		42	15	ug/Kg	1	☼	8270C	Total/NA
PCB-1248	2500		210	84	ug/Kg	10	☼	8082	Total/NA
Arsenic	8.7		1.2	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	96		1.2	0.14	mg/Kg	1	☼	6010B	Total/NA
Chromium	24		1.2	0.20	mg/Kg	1	☼	6010B	Total/NA
Lead	22		0.61	0.21	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.80	J	1.2	0.35	mg/Kg	1	☼	6010B	Total/NA
Mercury	56		21	6.4	ug/Kg	1	☼	7471A	Total/NA

Client Sample ID: B-50 (2-4)

Lab Sample ID: 500-47664-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	310		130	14	ug/Kg	50	☼	8260B	Total/NA
cis-1,2-Dichloroethene	120		65	7.9	ug/Kg	50	☼	8260B	Total/NA
Ethylbenzene	67		16	8.1	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	120	J	130	16	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	200		130	11	ug/Kg	50	☼	8260B	Total/NA
p-Isopropyltoluene	110	J	130	12	ug/Kg	50	☼	8260B	Total/NA
sec-Butylbenzene	180		65	9.9	ug/Kg	50	☼	8260B	Total/NA
Tetrachloroethene	1700		65	11	ug/Kg	50	☼	8260B	Total/NA
Toluene	31		16	7.4	ug/Kg	50	☼	8260B	Total/NA
Trichloroethene	140		32	12	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	79		32	4.4	ug/Kg	50	☼	8260B	Total/NA
1-Methylnaphthalene	600		210	110	ug/Kg	5	☼	8270C	Total/NA
Benzo[a]anthracene	290		210	44	ug/Kg	5	☼	8270C	Total/NA
Benzo[a]pyrene	350		210	39	ug/Kg	5	☼	8270C	Total/NA
Benzo[b]fluoranthene	400		210	41	ug/Kg	5	☼	8270C	Total/NA
Benzo[g,h,i]perylene	600		210	72	ug/Kg	5	☼	8270C	Total/NA
Benzo[k]fluoranthene	310		210	51	ug/Kg	5	☼	8270C	Total/NA
Chrysene	500		210	48	ug/Kg	5	☼	8270C	Total/NA
Dibenz(a,h)anthracene	130	J	210	59	ug/Kg	5	☼	8270C	Total/NA
Fluoranthene	420		210	87	ug/Kg	5	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	460		210	72	ug/Kg	5	☼	8270C	Total/NA
Naphthalene	190	J	210	41	ug/Kg	5	☼	8270C	Total/NA
Pyrene	370		210	77	ug/Kg	5	☼	8270C	Total/NA
PCB-1248	13000		4300	1700	ug/Kg	200	☼	8082	Total/NA
PCB-1254	6900	B	4300	930	ug/Kg	200	☼	8082	Total/NA
Arsenic	15		1.2	0.26	mg/Kg	1	☼	6010B	Total/NA
Barium	110		1.2	0.14	mg/Kg	1	☼	6010B	Total/NA
Cadmium	36		0.24	0.059	mg/Kg	1	☼	6010B	Total/NA
Chromium	24		1.2	0.20	mg/Kg	1	☼	6010B	Total/NA
Lead	1300		0.60	0.21	mg/Kg	1	☼	6010B	Total/NA
Selenium	1700		12	3.4	mg/Kg	10	☼	6010B	Total/NA

Detection Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Client Sample ID: B-50 (2-4) (Continued)

Lab Sample ID: 500-47664-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	1.3		0.60	0.072	mg/Kg	1	☼	6010B	Total/NA
Mercury	230		19	5.8	ug/Kg	1	☼	7471A	Total/NA
Cyanide, Total	0.55	J B	0.58	0.19	mg/Kg	1	☼	9014	Total/NA

Client Sample ID: B-50 (7-9)

Lab Sample ID: 500-47664-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	710		130	13	ug/Kg	50	☼	8260B	Total/NA
Ethylbenzene	1200		16	8.0	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	940		130	16	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	290		130	31	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	1600		130	11	ug/Kg	50	☼	8260B	Total/NA
p-Isopropyltoluene	1200		130	12	ug/Kg	50	☼	8260B	Total/NA
sec-Butylbenzene	710		63	9.7	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	520		32	4.3	ug/Kg	50	☼	8260B	Total/NA
1-Methylnaphthalene	560		40	20	ug/Kg	1	☼	8270C	Total/NA
2-Methylnaphthalene	90	J	200	52	ug/Kg	1	☼	8270C	Total/NA
Acenaphthene	16	J	40	12	ug/Kg	1	☼	8270C	Total/NA
Anthracene	12	J	40	9.4	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]anthracene	32	J	40	8.4	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	13	J	40	7.3	ug/Kg	1	☼	8270C	Total/NA
Chrysene	65		40	9.1	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	45		40	16	ug/Kg	1	☼	8270C	Total/NA
Fluorene	36	J	40	9.1	ug/Kg	1	☼	8270C	Total/NA
Naphthalene	110		40	7.7	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	160		40	17	ug/Kg	1	☼	8270C	Total/NA
Pyrene	86		40	14	ug/Kg	1	☼	8270C	Total/NA
PCB-1254	17	J B	20	4.2	ug/Kg	1	☼	8082	Total/NA
Arsenic	4.8		1.1	0.24	mg/Kg	1	☼	6010B	Total/NA
Barium	130		1.1	0.13	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		1.1	0.18	mg/Kg	1	☼	6010B	Total/NA
Lead	9.9		0.54	0.19	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.59	J	1.1	0.31	mg/Kg	1	☼	6010B	Total/NA
Mercury	24		18	5.6	ug/Kg	1	☼	7471A	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-47664-4

No Detections

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7471A	Mercury (CVAA)	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

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 WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-47664-1	B-23 (2-4)	Solid	06/21/12 09:30	06/26/12 10:30
500-47664-2	B-50 (2-4)	Solid	06/21/12 13:05	06/26/12 10:30
500-47664-3	B-50 (7-9)	Solid	06/21/12 13:50	06/26/12 10:30
500-47664-4	TRIP BLANK	Solid	06/21/12 00:00	06/26/12 10:30

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Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Client Sample ID: B-23 (2-4)

Lab Sample ID: 500-47664-1

Date Collected: 06/21/12 09:30

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		130	23	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,1,1-Trichloroethane	<13		66	13	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,1,2,2-Tetrachloroethane	<15		66	15	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,1,2-Trichloroethane	<18		66	18	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,1-Dichloroethane	<12		66	12	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,1-Dichloroethene	<20		66	20	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,1-Dichloropropene	<23		66	23	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,2,3-Trichlorobenzene	<23	*	130	23	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,2,3-Trichloropropane	<38		130	38	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,2,4-Trichlorobenzene	<25		130	25	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,2,4-Trimethylbenzene	<14		130	14	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,2-Dibromo-3-Chloropropane	<57		130	57	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,2-Dibromoethane	<21		130	21	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,2-Dichlorobenzene	<13		130	13	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,2-Dichloroethane	<19		66	19	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,2-Dichloropropane	<13		66	13	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,3,5-Trimethylbenzene	<14		130	14	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,3-Dichlorobenzene	<17		130	17	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,3-Dichloropropane	<8.8		66	8.8	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
1,4-Dichlorobenzene	<11		130	11	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
2,2-Dichloropropane	<21		66	21	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
2-Chlorotoluene	<14		66	14	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
4-Chlorotoluene	<13		66	13	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Benzene	<4.9		16	4.9	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Bromobenzene	<28		130	28	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Bromochloromethane	<25		130	25	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Bromodichloromethane	<22		130	22	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Bromoform	<29		130	29	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Bromomethane	<45		130	45	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Carbon tetrachloride	<17		66	17	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Chlorobenzene	<9.4		66	9.4	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Chloroethane	<29		130	29	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Chloroform	<13		66	13	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Chloromethane	<30		130	30	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
cis-1,2-Dichloroethene	<8.1		66	8.1	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
cis-1,3-Dichloropropene	<12		66	12	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Dibromochloromethane	<23		130	23	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Dibromomethane	<32		130	32	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Dichlorodifluoromethane	<34		130	34	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Ethylbenzene	<8.3		16	8.3	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Hexachlorobutadiene	<23		130	23	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Isopropyl ether	<9.7		130	9.7	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Isopropylbenzene	<16		130	16	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Methyl tert-butyl ether	<28		130	28	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Methylene Chloride	<45		330	45	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Naphthalene	<32	*	130	32	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
n-Butylbenzene	<8.5		66	8.5	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
N-Propylbenzene	<11		130	11	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
p-Isopropyltoluene	<12		130	12	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
sec-Butylbenzene	<10		66	10	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Styrene	<6.5		66	6.5	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Client Sample ID: B-23 (2-4)

Lab Sample ID: 500-47664-1

Date Collected: 06/21/12 09:30

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 76.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<8.9		66	8.9	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Tetrachloroethene	<11		66	11	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Toluene	<7.6		16	7.6	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
trans-1,2-Dichloroethene	<16		66	16	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
trans-1,3-Dichloropropene	<14		66	14	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Trichloroethene	<12		33	12	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Trichlorofluoromethane	<27		130	27	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Vinyl chloride	<6.8		16	6.8	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50
Xylenes, Total	<4.5		33	4.5	ug/Kg	☼	06/21/12 09:30	06/29/12 14:33	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		75 - 131	06/21/12 09:30	06/29/12 14:33	50
4-Bromofluorobenzene (Surr)	94		79 - 120	06/21/12 09:30	06/29/12 14:33	50
Dibromofluoromethane	87		74 - 123	06/21/12 09:30	06/29/12 14:33	50
Toluene-d8 (Surr)	99		80 - 120	06/21/12 09:30	06/29/12 14:33	50

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<21		42	21	ug/Kg	☼	07/05/12 08:07	07/08/12 01:35	1
2-Methylnaphthalene	<54		210	54	ug/Kg	☼	07/05/12 08:07	07/08/12 01:35	1
Acenaphthene	<13		42	13	ug/Kg	☼	07/05/12 08:07	07/08/12 01:35	1
Acenaphthylene	<9.6		42	9.6	ug/Kg	☼	07/05/12 08:07	07/08/12 01:35	1
Anthracene	17	J	42	9.8	ug/Kg	☼	07/05/12 08:07	07/08/12 01:35	1
Benzo[a]anthracene	72		42	8.8	ug/Kg	☼	07/05/12 08:07	07/08/12 01:35	1
Benzo[a]pyrene	61		42	7.6	ug/Kg	☼	07/05/12 08:07	07/08/12 01:35	1
Benzo[b]fluoranthene	85		42	8.1	ug/Kg	☼	07/05/12 08:07	07/08/12 01:35	1
Benzo[g,h,i]perylene	38	J	42	14	ug/Kg	☼	07/05/12 08:07	07/08/12 01:35	1
Benzo[k]fluoranthene	33	J	42	10	ug/Kg	☼	07/05/12 08:07	07/08/12 01:35	1
Chrysene	73		42	9.4	ug/Kg	☼	07/05/12 08:07	07/08/12 01:35	1
Dibenz(a,h)anthracene	<12		42	12	ug/Kg	☼	07/05/12 08:07	07/08/12 01:35	1
Fluoranthene	140		42	17	ug/Kg	☼	07/05/12 08:07	07/08/12 01:35	1
Fluorene	<9.5		42	9.5	ug/Kg	☼	07/05/12 08:07	07/08/12 01:35	1
Indeno[1,2,3-cd]pyrene	32	J	42	14	ug/Kg	☼	07/05/12 08:07	07/08/12 01:35	1
Naphthalene	<8.1		42	8.1	ug/Kg	☼	07/05/12 08:07	07/08/12 01:35	1
Phenanthrene	85		42	18	ug/Kg	☼	07/05/12 08:07	07/08/12 01:35	1
Pyrene	110		42	15	ug/Kg	☼	07/05/12 08:07	07/08/12 01:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		30 - 119	07/05/12 08:07	07/08/12 01:35	1
Nitrobenzene-d5	53		30 - 115	07/05/12 08:07	07/08/12 01:35	1
Terphenyl-d14	71		36 - 134	07/05/12 08:07	07/08/12 01:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<75		210	75	ug/Kg	☼	07/04/12 17:50	07/06/12 09:27	10
PCB-1221	<94		210	94	ug/Kg	☼	07/04/12 17:50	07/06/12 09:27	10
PCB-1232	<93		210	93	ug/Kg	☼	07/04/12 17:50	07/06/12 09:27	10
PCB-1242	<70		210	70	ug/Kg	☼	07/04/12 17:50	07/06/12 09:27	10
PCB-1248	2500		210	84	ug/Kg	☼	07/04/12 17:50	07/06/12 09:27	10
PCB-1254	<46		210	46	ug/Kg	☼	07/04/12 17:50	07/06/12 09:27	10
PCB-1260	<100		210	100	ug/Kg	☼	07/04/12 17:50	07/06/12 09:27	10

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Client Sample ID: B-23 (2-4)

Lab Sample ID: 500-47664-1

Date Collected: 06/21/12 09:30

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 76.9

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	106		50 - 116	07/04/12 17:50	07/06/12 09:27	10
DCB Decachlorobiphenyl	104		48 - 142	07/04/12 17:50	07/06/12 09:27	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.7		1.2	0.26	mg/Kg	☼	07/02/12 16:25	07/08/12 19:13	1
Barium	96		1.2	0.14	mg/Kg	☼	07/02/12 16:25	07/08/12 19:13	1
Cadmium	<0.060		0.24	0.060	mg/Kg	☼	07/02/12 16:25	07/08/12 19:13	1
Chromium	24		1.2	0.20	mg/Kg	☼	07/02/12 16:25	07/08/12 19:13	1
Lead	22		0.61	0.21	mg/Kg	☼	07/02/12 16:25	07/08/12 19:13	1
Selenium	0.80	J	1.2	0.35	mg/Kg	☼	07/02/12 16:25	07/08/12 19:13	1
Silver	<0.073		0.61	0.073	mg/Kg	☼	07/02/12 16:25	07/08/12 19:13	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	56		21	6.4	ug/Kg	☼	07/08/12 09:45	07/08/12 13:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.21		0.62	0.21	mg/Kg	☼	06/30/12 10:40	06/30/12 12:17	1

Client Sample ID: B-50 (2-4)

Lab Sample ID: 500-47664-2

Date Collected: 06/21/12 13:05

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<22		130	22	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,1,1-Trichloroethane	<13		65	13	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,1,2,2-Tetrachloroethane	<15		65	15	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,1,2-Trichloroethane	<18		65	18	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,1-Dichloroethane	<12		65	12	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,1-Dichloroethene	<20		65	20	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,1-Dichloropropene	<22		65	22	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,2,3-Trichlorobenzene	<23	*	130	23	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,2,3-Trichloropropane	<37		130	37	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,2,4-Trichlorobenzene	<24		130	24	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,2,4-Trimethylbenzene	310		130	14	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,2-Dibromo-3-Chloropropane	<56		130	56	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,2-Dibromoethane	<20		130	20	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,2-Dichlorobenzene	<13		130	13	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,2-Dichloroethane	<18		65	18	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,2-Dichloropropane	<13		65	13	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,3,5-Trimethylbenzene	<13		130	13	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,3-Dichlorobenzene	<17		130	17	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,3-Dichloropropane	<8.7		65	8.7	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
1,4-Dichlorobenzene	<11		130	11	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
2,2-Dichloropropane	<20		65	20	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
2-Chlorotoluene	<13		65	13	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
4-Chlorotoluene	<13		65	13	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Benzene	<4.8		16	4.8	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Bromobenzene	<27		130	27	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Client Sample ID: B-50 (2-4)

Lab Sample ID: 500-47664-2

Date Collected: 06/21/12 13:05

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 77.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	<24		130	24	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Bromodichloromethane	<22		130	22	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Bromoform	<28		130	28	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Bromomethane	<44		130	44	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Carbon tetrachloride	<17		65	17	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Chlorobenzene	<9.2		65	9.2	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Chloroethane	<28		130	28	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Chloroform	<13		65	13	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Chloromethane	<30		130	30	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
cis-1,2-Dichloroethene	120		65	7.9	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
cis-1,3-Dichloropropene	<11		65	11	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Dibromochloromethane	<22		130	22	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Dibromomethane	<31		130	31	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Dichlorodifluoromethane	<33		130	33	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Ethylbenzene	67		16	8.1	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Hexachlorobutadiene	<22		130	22	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Isopropyl ether	<9.5		130	9.5	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Isopropylbenzene	120 J		130	16	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Methyl tert-butyl ether	<28		130	28	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Methylene Chloride	<44		320	44	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Naphthalene	<32 *		130	32	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
n-Butylbenzene	<8.3		65	8.3	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
N-Propylbenzene	200		130	11	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
p-Isopropyltoluene	110 J		130	12	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
sec-Butylbenzene	180		65	9.9	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Styrene	<6.4		65	6.4	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
tert-Butylbenzene	<8.8		65	8.8	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Tetrachloroethene	1700		65	11	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Toluene	31		16	7.4	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
trans-1,2-Dichloroethene	<16		65	16	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
trans-1,3-Dichloropropene	<13		65	13	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Trichloroethene	140		32	12	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Trichlorofluoromethane	<27		130	27	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Vinyl chloride	<6.7		16	6.7	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50
Xylenes, Total	79		32	4.4	ug/Kg	☼	06/21/12 09:30	06/29/12 14:58	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 131	06/21/12 09:30	06/29/12 14:58	50
4-Bromofluorobenzene (Surr)	103		79 - 120	06/21/12 09:30	06/29/12 14:58	50
Dibromofluoromethane	92		74 - 123	06/21/12 09:30	06/29/12 14:58	50
Toluene-d8 (Surr)	100		80 - 120	06/21/12 09:30	06/29/12 14:58	50

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	600		210	110	ug/Kg	☼	07/05/12 08:07	07/08/12 01:55	5
2-Methylnaphthalene	<280		1100	280	ug/Kg	☼	07/05/12 08:07	07/08/12 01:55	5
Acenaphthene	<63		210	63	ug/Kg	☼	07/05/12 08:07	07/08/12 01:55	5
Acenaphthylene	<49		210	49	ug/Kg	☼	07/05/12 08:07	07/08/12 01:55	5
Anthracene	<50		210	50	ug/Kg	☼	07/05/12 08:07	07/08/12 01:55	5
Benzo[a]anthracene	290		210	44	ug/Kg	☼	07/05/12 08:07	07/08/12 01:55	5
Benzo[a]pyrene	350		210	39	ug/Kg	☼	07/05/12 08:07	07/08/12 01:55	5

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Client Sample ID: B-50 (2-4)

Lab Sample ID: 500-47664-2

Date Collected: 06/21/12 13:05

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 77.4

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	400		210	41	ug/Kg	☼	07/05/12 08:07	07/08/12 01:55	5
Benzo[g,h,i]perylene	600		210	72	ug/Kg	☼	07/05/12 08:07	07/08/12 01:55	5
Benzo[k]fluoranthene	310		210	51	ug/Kg	☼	07/05/12 08:07	07/08/12 01:55	5
Chrysene	500		210	48	ug/Kg	☼	07/05/12 08:07	07/08/12 01:55	5
Dibenz(a,h)anthracene	130	J	210	59	ug/Kg	☼	07/05/12 08:07	07/08/12 01:55	5
Fluoranthene	420		210	87	ug/Kg	☼	07/05/12 08:07	07/08/12 01:55	5
Fluorene	<48		210	48	ug/Kg	☼	07/05/12 08:07	07/08/12 01:55	5
Indeno[1,2,3-cd]pyrene	460		210	72	ug/Kg	☼	07/05/12 08:07	07/08/12 01:55	5
Naphthalene	190	J	210	41	ug/Kg	☼	07/05/12 08:07	07/08/12 01:55	5
Phenanthrene	<89		210	89	ug/Kg	☼	07/05/12 08:07	07/08/12 01:55	5
Pyrene	370		210	77	ug/Kg	☼	07/05/12 08:07	07/08/12 01:55	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	107		30 - 119				07/05/12 08:07	07/08/12 01:55	5
Nitrobenzene-d5	78		30 - 115				07/05/12 08:07	07/08/12 01:55	5
Terphenyl-d14	64		36 - 134				07/05/12 08:07	07/08/12 01:55	5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<1500		4300	1500	ug/Kg	☼	07/04/12 17:50	07/06/12 09:41	200
PCB-1221	<1900		4300	1900	ug/Kg	☼	07/04/12 17:50	07/06/12 09:41	200
PCB-1232	<1900		4300	1900	ug/Kg	☼	07/04/12 17:50	07/06/12 09:41	200
PCB-1242	<1400		4300	1400	ug/Kg	☼	07/04/12 17:50	07/06/12 09:41	200
PCB-1248	13000		4300	1700	ug/Kg	☼	07/04/12 17:50	07/06/12 09:41	200
PCB-1254	6900	B	4300	930	ug/Kg	☼	07/04/12 17:50	07/06/12 09:41	200
PCB-1260	<2100		4300	2100	ug/Kg	☼	07/04/12 17:50	07/06/12 09:41	200
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	0	D	50 - 116				07/04/12 17:50	07/06/12 09:41	200
DCB Decachlorobiphenyl	0	D	48 - 142				07/04/12 17:50	07/06/12 09:41	200

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	15		1.2	0.26	mg/Kg	☼	07/02/12 16:25	07/08/12 19:19	1
Barium	110		1.2	0.14	mg/Kg	☼	07/02/12 16:25	07/08/12 19:19	1
Cadmium	36		0.24	0.059	mg/Kg	☼	07/02/12 16:25	07/08/12 19:19	1
Chromium	24		1.2	0.20	mg/Kg	☼	07/02/12 16:25	07/08/12 19:19	1
Lead	1300		0.60	0.21	mg/Kg	☼	07/02/12 16:25	07/08/12 19:19	1
Selenium	1700		12	3.4	mg/Kg	☼	07/02/12 16:25	07/09/12 09:11	10
Silver	1.3		0.60	0.072	mg/Kg	☼	07/02/12 16:25	07/08/12 19:19	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	230		19	5.8	ug/Kg	☼	07/08/12 09:45	07/08/12 13:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.55	J B	0.58	0.19	mg/Kg	☼	06/30/12 10:40	06/30/12 12:17	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Client Sample ID: B-50 (7-9)

Lab Sample ID: 500-47664-3

Date Collected: 06/21/12 13:50

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<22		130	22	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,1,1-Trichloroethane	<13		63	13	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,1,2,2-Tetrachloroethane	<15		63	15	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,1,2-Trichloroethane	<18		63	18	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,1-Dichloroethane	<12		63	12	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,1-Dichloroethene	<19		63	19	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,1-Dichloropropene	<22		63	22	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,2,3-Trichlorobenzene	<22		130	22	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,2,3-Trichloropropane	<36		130	36	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,2,4-Trichlorobenzene	<24		130	24	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,2,4-Trimethylbenzene	710		130	13	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,2-Dibromo-3-Chloropropane	<55		130	55	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,2-Dibromoethane	<20		130	20	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,2-Dichlorobenzene	<13		130	13	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,2-Dichloroethane	<18		63	18	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,2-Dichloropropane	<12		63	12	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,3,5-Trimethylbenzene	<13		130	13	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,3-Dichlorobenzene	<16		130	16	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,3-Dichloropropane	<8.5		63	8.5	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
1,4-Dichlorobenzene	<11		130	11	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
2,2-Dichloropropane	<20		63	20	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
2-Chlorotoluene	<13		63	13	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
4-Chlorotoluene	<12		63	12	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Benzene	<4.7		16	4.7	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Bromobenzene	<27		130	27	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Bromochloromethane	<24		130	24	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Bromodichloromethane	<21		130	21	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Bromoform	<28		130	28	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Bromomethane	<43		130	43	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Carbon tetrachloride	<16		63	16	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Chlorobenzene	<9.0		63	9.0	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Chloroethane	<27		130	27	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Chloroform	<13		63	13	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Chloromethane	<29		130	29	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
cis-1,2-Dichloroethene	<7.8		63	7.8	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
cis-1,3-Dichloropropene	<11		63	11	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Dibromochloromethane	<22		130	22	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Dibromomethane	<30		130	30	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Dichlorodifluoromethane	<32		130	32	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Ethylbenzene	1200		16	8.0	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Hexachlorobutadiene	<22		130	22	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Isopropyl ether	<9.3		130	9.3	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Isopropylbenzene	940		130	16	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Methyl tert-butyl ether	<27		130	27	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Methylene Chloride	<43		320	43	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Naphthalene	290		130	31	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
n-Butylbenzene	<8.2		63	8.2	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
N-Propylbenzene	1600		130	11	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
p-Isopropyltoluene	1200		130	12	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
sec-Butylbenzene	710		63	9.7	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Styrene	<6.2		63	6.2	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Client Sample ID: B-50 (7-9)

Lab Sample ID: 500-47664-3

Date Collected: 06/21/12 13:50

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 80.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<8.6		63	8.6	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Tetrachloroethene	<11		63	11	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Toluene	<7.3		16	7.3	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
trans-1,2-Dichloroethene	<16		63	16	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
trans-1,3-Dichloropropene	<13		63	13	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Trichloroethene	<12		32	12	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Trichlorofluoromethane	<26		130	26	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Vinyl chloride	<6.6		16	6.6	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50
Xylenes, Total	520		32	4.3	ug/Kg	☼	06/21/12 09:30	07/03/12 07:21	50

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 131	06/21/12 09:30	07/03/12 07:21	50
4-Bromofluorobenzene (Surr)	118		79 - 120	06/21/12 09:30	07/03/12 07:21	50
Dibromofluoromethane	99		74 - 123	06/21/12 09:30	07/03/12 07:21	50
Toluene-d8 (Surr)	107		80 - 120	06/21/12 09:30	07/03/12 07:21	50

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	560		40	20	ug/Kg	☼	07/05/12 08:07	07/08/12 02:14	1
2-Methylnaphthalene	90	J	200	52	ug/Kg	☼	07/05/12 08:07	07/08/12 02:14	1
Acenaphthene	16	J	40	12	ug/Kg	☼	07/05/12 08:07	07/08/12 02:14	1
Acenaphthylene	<9.2		40	9.2	ug/Kg	☼	07/05/12 08:07	07/08/12 02:14	1
Anthracene	12	J	40	9.4	ug/Kg	☼	07/05/12 08:07	07/08/12 02:14	1
Benzo[a]anthracene	32	J	40	8.4	ug/Kg	☼	07/05/12 08:07	07/08/12 02:14	1
Benzo[a]pyrene	13	J	40	7.3	ug/Kg	☼	07/05/12 08:07	07/08/12 02:14	1
Benzo[b]fluoranthene	<7.8		40	7.8	ug/Kg	☼	07/05/12 08:07	07/08/12 02:14	1
Benzo[g,h,i]perylene	<14		40	14	ug/Kg	☼	07/05/12 08:07	07/08/12 02:14	1
Benzo[k]fluoranthene	<9.6		40	9.6	ug/Kg	☼	07/05/12 08:07	07/08/12 02:14	1
Chrysene	65		40	9.1	ug/Kg	☼	07/05/12 08:07	07/08/12 02:14	1
Dibenz(a,h)anthracene	<11		40	11	ug/Kg	☼	07/05/12 08:07	07/08/12 02:14	1
Fluoranthene	45		40	16	ug/Kg	☼	07/05/12 08:07	07/08/12 02:14	1
Fluorene	36	J	40	9.1	ug/Kg	☼	07/05/12 08:07	07/08/12 02:14	1
Indeno[1,2,3-cd]pyrene	<14		40	14	ug/Kg	☼	07/05/12 08:07	07/08/12 02:14	1
Naphthalene	110		40	7.7	ug/Kg	☼	07/05/12 08:07	07/08/12 02:14	1
Phenanthrene	160		40	17	ug/Kg	☼	07/05/12 08:07	07/08/12 02:14	1
Pyrene	86		40	14	ug/Kg	☼	07/05/12 08:07	07/08/12 02:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		30 - 119	07/05/12 08:07	07/08/12 02:14	1
Nitrobenzene-d5	43		30 - 115	07/05/12 08:07	07/08/12 02:14	1
Terphenyl-d14	74		36 - 134	07/05/12 08:07	07/08/12 02:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.9		20	6.9	ug/Kg	☼	07/04/12 17:50	07/05/12 19:13	1
PCB-1221	<8.6		20	8.6	ug/Kg	☼	07/04/12 17:50	07/05/12 19:13	1
PCB-1232	<8.6		20	8.6	ug/Kg	☼	07/04/12 17:50	07/05/12 19:13	1
PCB-1242	<6.5		20	6.5	ug/Kg	☼	07/04/12 17:50	07/05/12 19:13	1
PCB-1248	<7.7		20	7.7	ug/Kg	☼	07/04/12 17:50	07/05/12 19:13	1
PCB-1254	17	J B	20	4.2	ug/Kg	☼	07/04/12 17:50	07/05/12 19:13	1
PCB-1260	<9.6		20	9.6	ug/Kg	☼	07/04/12 17:50	07/05/12 19:13	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Client Sample ID: B-50 (7-9)

Lab Sample ID: 500-47664-3

Date Collected: 06/21/12 13:50

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 80.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	91		50 - 116	07/04/12 17:50	07/05/12 19:13	1
DCB Decachlorobiphenyl	92		48 - 142	07/04/12 17:50	07/05/12 19:13	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.8		1.1	0.24	mg/Kg	☼	07/02/12 16:25	07/08/12 19:25	1
Barium	130		1.1	0.13	mg/Kg	☼	07/02/12 16:25	07/08/12 19:25	1
Cadmium	<0.053		0.22	0.053	mg/Kg	☼	07/02/12 16:25	07/08/12 19:25	1
Chromium	17		1.1	0.18	mg/Kg	☼	07/02/12 16:25	07/08/12 19:25	1
Lead	9.9		0.54	0.19	mg/Kg	☼	07/02/12 16:25	07/08/12 19:25	1
Selenium	0.59	J	1.1	0.31	mg/Kg	☼	07/02/12 16:25	07/08/12 19:25	1
Silver	<0.065		0.54	0.065	mg/Kg	☼	07/02/12 16:25	07/08/12 19:25	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	24		18	5.6	ug/Kg	☼	07/08/12 09:45	07/08/12 13:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.15		0.46	0.15	mg/Kg	☼	07/03/12 11:30	07/03/12 17:53	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-47664-4

Date Collected: 06/21/12 00:00

Matrix: Solid

Date Received: 06/26/12 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,1-Dichloroethene	<15		50	15	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,1-Dichloropropene	<17		50	17	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,2,3-Trichlorobenzene	<18	*	100	18	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,2-Dibromoethane	<16		100	16	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,2-Dichloroethane	<14		50	14	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
2,2-Dichloropropane	<16		50	16	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
2-Chlorotoluene	<10		50	10	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Benzene	<3.7		13	3.7	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Bromobenzene	<21		100	21	ug/Kg		06/21/12 09:30	06/29/12 15:47	50

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-47664-4

Date Collected: 06/21/12 00:00

Matrix: Solid

Date Received: 06/26/12 10:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	<19		100	19	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Bromodichloromethane	<17		100	17	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Bromoform	<22		100	22	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Bromomethane	<34		100	34	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Carbon tetrachloride	<13		50	13	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Chloroethane	<22		100	22	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Chloroform	<10		50	10	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Chloromethane	<23		100	23	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Dibromochloromethane	<17		100	17	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Dibromomethane	<24		100	24	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Hexachlorobutadiene	<17		100	17	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Isopropylbenzene	<13		100	13	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Methylene Chloride	<34		250	34	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Naphthalene	<25 *		100	25	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Styrene	<4.9		50	4.9	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Toluene	<5.8		13	5.8	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Trichloroethene	<9.3		25	9.3	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Trichlorofluoromethane	<21		100	21	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		06/21/12 09:30	06/29/12 15:47	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 131				06/21/12 09:30	06/29/12 15:47	50
4-Bromofluorobenzene (Surr)	98		79 - 120				06/21/12 09:30	06/29/12 15:47	50
Dibromofluoromethane	92		74 - 123				06/21/12 09:30	06/29/12 15:47	50
Toluene-d8 (Surr)	98		80 - 120				06/21/12 09:30	06/29/12 15:47	50

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Qualifiers

GC/MS VOA

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

GC/MS Semi 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.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
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 WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

GC/MS VOA

Prep Batch: 154236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47664-1	B-23 (2-4)	Total/NA	Solid	5035	
500-47664-2	B-50 (2-4)	Total/NA	Solid	5035	
500-47664-3	B-50 (7-9)	Total/NA	Solid	5035	
500-47664-4	TRIP BLANK	Total/NA	Solid	5035	
LB3 500-154236/5-A LB3	Method Blank	Total/NA	Solid	5035	
LCS 500-154236/6-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 154571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47664-1	B-23 (2-4)	Total/NA	Solid	8260B	154236
500-47664-2	B-50 (2-4)	Total/NA	Solid	8260B	154236
500-47664-4	TRIP BLANK	Total/NA	Solid	8260B	154236
LB3 500-154236/5-A LB3	Method Blank	Total/NA	Solid	8260B	154236
LCS 500-154236/6-A	Lab Control Sample	Total/NA	Solid	8260B	154236
LCS 500-154571/4	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-154571/5	Method Blank	Total/NA	Solid	8260B	

Analysis Batch: 154851

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47664-3	B-50 (7-9)	Total/NA	Solid	8260B	154236
LCS 500-154851/5	Lab Control Sample	Total/NA	Solid	8260B	
MB 500-154851/6	Method Blank	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 155114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47664-1	B-23 (2-4)	Total/NA	Solid	3541	
500-47664-2	B-50 (2-4)	Total/NA	Solid	3541	
500-47664-3	B-50 (7-9)	Total/NA	Solid	3541	
LCS 500-155114/2-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-155114/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 155451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-155114/1-A	Method Blank	Total/NA	Solid	8270C	155114

Analysis Batch: 155455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47664-1	B-23 (2-4)	Total/NA	Solid	8270C	155114
500-47664-2	B-50 (2-4)	Total/NA	Solid	8270C	155114
500-47664-3	B-50 (7-9)	Total/NA	Solid	8270C	155114

Analysis Batch: 155493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-155114/2-A	Lab Control Sample	Total/NA	Solid	8270C	155114

GC Semi VOA

Prep Batch: 155091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47664-1	B-23 (2-4)	Total/NA	Solid	3541	

QC Association Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

GC Semi VOA (Continued)

Prep Batch: 155091 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47664-2	B-50 (2-4)	Total/NA	Solid	3541	
500-47664-3	B-50 (7-9)	Total/NA	Solid	3541	
LCS 500-155091/3-A	Lab Control Sample	Total/NA	Solid	3541	
MB 500-155091/1-A	Method Blank	Total/NA	Solid	3541	

Analysis Batch: 155204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47664-1	B-23 (2-4)	Total/NA	Solid	8082	155091
500-47664-2	B-50 (2-4)	Total/NA	Solid	8082	155091
500-47664-3	B-50 (7-9)	Total/NA	Solid	8082	155091
LCS 500-155091/3-A	Lab Control Sample	Total/NA	Solid	8082	155091
MB 500-155091/1-A	Method Blank	Total/NA	Solid	8082	155091

Metals

Prep Batch: 154879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47664-1	B-23 (2-4)	Total/NA	Solid	3050B	
500-47664-2	B-50 (2-4)	Total/NA	Solid	3050B	
500-47664-3	B-50 (7-9)	Total/NA	Solid	3050B	
LCS 500-154879/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 500-154879/1-A	Method Blank	Total/NA	Solid	3050B	

Prep Batch: 155335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47664-1	B-23 (2-4)	Total/NA	Solid	7471A	
500-47664-2	B-50 (2-4)	Total/NA	Solid	7471A	
500-47664-3	B-50 (7-9)	Total/NA	Solid	7471A	
LCS 500-155335/8-A	Lab Control Sample	Total/NA	Solid	7471A	
MB 500-155335/7-A	Method Blank	Total/NA	Solid	7471A	

Analysis Batch: 155502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47664-1	B-23 (2-4)	Total/NA	Solid	7471A	155335
500-47664-2	B-50 (2-4)	Total/NA	Solid	7471A	155335
500-47664-3	B-50 (7-9)	Total/NA	Solid	7471A	155335
LCS 500-155335/8-A	Lab Control Sample	Total/NA	Solid	7471A	155335
MB 500-155335/7-A	Method Blank	Total/NA	Solid	7471A	155335

Analysis Batch: 155516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47664-1	B-23 (2-4)	Total/NA	Solid	6010B	154879
500-47664-2	B-50 (2-4)	Total/NA	Solid	6010B	154879
500-47664-3	B-50 (7-9)	Total/NA	Solid	6010B	154879
LCS 500-154879/2-A	Lab Control Sample	Total/NA	Solid	6010B	154879
MB 500-154879/1-A	Method Blank	Total/NA	Solid	6010B	154879

Analysis Batch: 155570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47664-2	B-50 (2-4)	Total/NA	Solid	6010B	154879

QC Association Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

General Chemistry

Analysis Batch: 154191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47664-1	B-23 (2-4)	Total/NA	Solid	Moisture	
500-47664-1 DU	B-23 (2-4)	Total/NA	Solid	Moisture	
500-47664-2	B-50 (2-4)	Total/NA	Solid	Moisture	
500-47664-3	B-50 (7-9)	Total/NA	Solid	Moisture	

Prep Batch: 154722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47664-1	B-23 (2-4)	Total/NA	Solid	9010B	
500-47664-2	B-50 (2-4)	Total/NA	Solid	9010B	
LCS 500-154722/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 500-154722/1-A	Method Blank	Total/NA	Solid	9010B	

Analysis Batch: 154739

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47664-1	B-23 (2-4)	Total/NA	Solid	9014	154722
500-47664-2	B-50 (2-4)	Total/NA	Solid	9014	154722
LCS 500-154722/2-A	Lab Control Sample	Total/NA	Solid	9014	154722
MB 500-154722/1-A	Method Blank	Total/NA	Solid	9014	154722

Prep Batch: 154900

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47664-3	B-50 (7-9)	Total/NA	Solid	9010B	
LCS 500-154900/2-A	Lab Control Sample	Total/NA	Solid	9010B	
MB 500-154900/1-A	Method Blank	Total/NA	Solid	9010B	

Analysis Batch: 155034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-47664-3	B-50 (7-9)	Total/NA	Solid	9014	154900
LCS 500-154900/2-A	Lab Control Sample	Total/NA	Solid	9014	154900
MB 500-154900/1-A	Method Blank	Total/NA	Solid	9014	154900

Surrogate Summary

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		12DCE (75-131)	BFB (79-120)	DBFM (74-123)	TOL (80-120)
500-47664-1	B-23 (2-4)	91	94	87	99
500-47664-2	B-50 (2-4)	96	103	92	100
500-47664-3	B-50 (7-9)	99	118	99	107
500-47664-4	TRIP BLANK	95	98	92	98
LB3 500-154236/5-A LB3	Method Blank	91	95	85	95
LCS 500-154236/6-A	Lab Control Sample	93	95	94	97
LCS 500-154571/4	Lab Control Sample	87	95	89	98
LCS 500-154851/5	Lab Control Sample	101	100	102	100
MB 500-154571/5	Method Blank	89	97	91	98
MB 500-154851/6	Method Blank	100	95	95	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene (Surr)
 DBFM = Dibromofluoromethane
 TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (30-119)	NBZ (30-115)	TPH (36-134)
500-47664-1	B-23 (2-4)	62	53	71
500-47664-2	B-50 (2-4)	107	78	64
500-47664-3	B-50 (7-9)	62	43	74
LCS 500-155114/2-A	Lab Control Sample	94	105	116
MB 500-155114/1-A	Method Blank	106	104	110

Surrogate Legend

FBP = 2-Fluorobiphenyl
 NBZ = Nitrobenzene-d5
 TPH = Terphenyl-d14

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		TCX2 (50-116)	DCB2 (48-142)
500-47664-1	B-23 (2-4)	106	104
500-47664-2	B-50 (2-4)	0 D	0 D
500-47664-3	B-50 (7-9)	91	92
LCS 500-155091/3-A	Lab Control Sample	72	115
MB 500-155091/1-A	Method Blank	71	111

Surrogate Legend

TCX = Tetrachloro-m-xylene
 DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

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

Lab Sample ID: LB3 500-154236/5-A LB3

Matrix: Solid

Analysis Batch: 154571

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 154236

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<17		100	17	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,1,1-Trichloroethane	<10		50	10	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,1,2,2-Tetrachloroethane	<12		50	12	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,1,2-Trichloroethane	<14		50	14	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,1-Dichloroethane	<9.3		50	9.3	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,1-Dichloroethene	<15		50	15	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,1-Dichloropropene	<17		50	17	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,2,3-Trichlorobenzene	<18		100	18	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,2,3-Trichloropropane	<29		100	29	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,2,4-Trichlorobenzene	<19		100	19	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,2,4-Trimethylbenzene	<11		100	11	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,2-Dibromo-3-Chloropropane	<44		100	44	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,2-Dibromoethane	<16		100	16	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,2-Dichlorobenzene	<10		100	10	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,2-Dichloroethane	<14		50	14	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,2-Dichloropropane	<9.8		50	9.8	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,3,5-Trimethylbenzene	<10		100	10	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,3-Dichlorobenzene	<13		100	13	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,3-Dichloropropane	<6.7		50	6.7	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
1,4-Dichlorobenzene	<8.7		100	8.7	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
2,2-Dichloropropane	<16		50	16	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
2-Chlorotoluene	<10		50	10	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
4-Chlorotoluene	<9.9		50	9.9	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Benzene	<3.7		13	3.7	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Bromobenzene	<21		100	21	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Bromochloromethane	<19		100	19	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Bromodichloromethane	<17		100	17	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Bromoform	<22		100	22	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Bromomethane	<34		100	34	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Carbon tetrachloride	<13		50	13	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Chlorobenzene	<7.2		50	7.2	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Chloroethane	<22		100	22	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Chloroform	<10		50	10	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Chloromethane	<23		100	23	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
cis-1,2-Dichloroethene	<6.2		50	6.2	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
cis-1,3-Dichloropropene	<8.9		50	8.9	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Dibromochloromethane	<17		100	17	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Dibromomethane	<24		100	24	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Dichlorodifluoromethane	<26		100	26	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Ethylbenzene	<6.3		13	6.3	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Hexachlorobutadiene	<17		100	17	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Isopropyl ether	<7.4		100	7.4	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Isopropylbenzene	<13		100	13	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Methyl tert-butyl ether	<22		100	22	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Methylene Chloride	<34		250	34	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Naphthalene	<25		100	25	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
n-Butylbenzene	<6.5		50	6.5	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
N-Propylbenzene	<8.8		100	8.8	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
p-Isopropyltoluene	<9.3		100	9.3	ug/Kg		06/21/12 09:30	06/29/12 16:11	50

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

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

Lab Sample ID: LB3 500-154236/5-A LB3

Matrix: Solid

Analysis Batch: 154571

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 154236

Analyte	LB3 LB3		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
sec-Butylbenzene	<7.7		50	7.7	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Styrene	<4.9		50	4.9	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
tert-Butylbenzene	<6.8		50	6.8	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Tetrachloroethene	<8.4		50	8.4	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Toluene	<5.8		13	5.8	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
trans-1,2-Dichloroethene	<13		50	13	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
trans-1,3-Dichloropropene	<10		50	10	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Trichloroethene	<9.3		25	9.3	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Trichlorofluoromethane	<21		100	21	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Vinyl chloride	<5.2		13	5.2	ug/Kg		06/21/12 09:30	06/29/12 16:11	50
Xylenes, Total	<3.4		25	3.4	ug/Kg		06/21/12 09:30	06/29/12 16:11	50

Surrogate	LB3 LB3		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	91		75 - 131	06/21/12 09:30	06/29/12 16:11	50
4-Bromofluorobenzene (Surr)	95		79 - 120	06/21/12 09:30	06/29/12 16:11	50
Dibromofluoromethane	85		74 - 123	06/21/12 09:30	06/29/12 16:11	50
Toluene-d8 (Surr)	95		80 - 120	06/21/12 09:30	06/29/12 16:11	50

Lab Sample ID: LCS 500-154236/6-A

Matrix: Solid

Analysis Batch: 154571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154236

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	2500	2400		ug/Kg		96	80 - 120
1,1,1-Trichloroethane	2500	2320		ug/Kg		93	77 - 117
1,1,2,2-Tetrachloroethane	2500	2280		ug/Kg		91	78 - 123
1,1,2-Trichloroethane	2500	2240		ug/Kg		90	78 - 121
1,1-Dichloroethane	2500	2190		ug/Kg		88	66 - 118
1,1-Dichloroethene	2500	2370		ug/Kg		95	58 - 115
1,1-Dichloropropene	2500	2300		ug/Kg		92	71 - 113
1,2,3-Trichlorobenzene	2500	1790	*	ug/Kg		72	74 - 126
1,2,3-Trichloropropene	2500	2140		ug/Kg		86	77 - 119
1,2,4-Trichlorobenzene	2500	1860		ug/Kg		75	70 - 118
1,2,4-Trimethylbenzene	2500	2350		ug/Kg		94	80 - 120
1,2-Dibromo-3-Chloropropane	2500	1900		ug/Kg		76	53 - 133
1,2-Dibromoethane	2500	2210		ug/Kg		88	79 - 120
1,2-Dichlorobenzene	2500	2250		ug/Kg		90	80 - 120
1,2-Dichloroethane	2500	2210		ug/Kg		88	76 - 117
1,2-Dichloropropane	2500	2220		ug/Kg		89	77 - 118
1,3,5-Trimethylbenzene	2500	2400		ug/Kg		96	83 - 120
1,3-Dichlorobenzene	2500	2280		ug/Kg		91	80 - 120
1,3-Dichloropropane	2500	2230		ug/Kg		89	79 - 114
1,4-Dichlorobenzene	2500	2310		ug/Kg		92	80 - 120
2,2-Dichloropropane	2500	2050		ug/Kg		82	70 - 117
2-Chlorotoluene	2500	2320		ug/Kg		93	80 - 120
4-Chlorotoluene	2500	2260		ug/Kg		90	80 - 120
Benzene	2500	2190		ug/Kg		88	74 - 115
Bromobenzene	2500	2410		ug/Kg		96	80 - 120
Bromochloromethane	2500	2330		ug/Kg		93	72 - 119

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

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

Lab Sample ID: LCS 500-154236/6-A

Matrix: Solid

Analysis Batch: 154571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 154236

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	2500	2220		ug/Kg		89	79 - 117
Bromoform	2500	2090		ug/Kg		84	64 - 127
Bromomethane	2500	1920		ug/Kg		77	47 - 158
Carbon tetrachloride	2500	2320		ug/Kg		93	72 - 124
Chlorobenzene	2500	2300		ug/Kg		92	80 - 120
Chloroethane	2500	1950		ug/Kg		78	54 - 143
Chloroform	2500	2260		ug/Kg		90	76 - 117
Chloromethane	2500	1780		ug/Kg		71	56 - 144
cis-1,2-Dichloroethene	2500	2320		ug/Kg		93	75 - 119
cis-1,3-Dichloropropene	2690	2370		ug/Kg		88	71 - 112
Dibromochloromethane	2500	2140		ug/Kg		86	73 - 120
Dibromomethane	2500	2210		ug/Kg		88	76 - 120
Dichlorodifluoromethane	2500	1390		ug/Kg		56	43 - 139
Ethylbenzene	2500	2330		ug/Kg		93	79 - 115
Hexachlorobutadiene	2500	2010		ug/Kg		81	71 - 128
Isopropylbenzene	2500	2060		ug/Kg		82	68 - 120
Methyl tert-butyl ether	2500	2110		ug/Kg		84	60 - 125
Methylene Chloride	2500	2270		ug/Kg		91	63 - 130
Naphthalene	2500	1940		ug/Kg		77	72 - 127
n-Butylbenzene	2500	2270		ug/Kg		91	78 - 119
N-Propylbenzene	2500	2280		ug/Kg		91	77 - 114
p-Isopropyltoluene	2500	2200		ug/Kg		88	77 - 120
sec-Butylbenzene	2500	2310		ug/Kg		92	79 - 117
Styrene	2500	2270		ug/Kg		91	80 - 120
tert-Butylbenzene	2500	2280		ug/Kg		91	80 - 120
Tetrachloroethene	2500	2390		ug/Kg		96	71 - 120
Toluene	2500	2290		ug/Kg		92	80 - 120
trans-1,2-Dichloroethene	2500	2500		ug/Kg		100	74 - 119
trans-1,3-Dichloropropene	2430	2140		ug/Kg		88	66 - 116
Trichloroethene	2500	2340		ug/Kg		93	75 - 120
Trichlorofluoromethane	2500	2040		ug/Kg		82	66 - 126
Vinyl chloride	2500	1960		ug/Kg		78	51 - 149
Xylenes, Total	7500	6660		ug/Kg		89	78 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		75 - 131
4-Bromofluorobenzene (Surr)	95		79 - 120
Dibromofluoromethane	94		74 - 123
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: MB 500-154571/5

Matrix: Solid

Analysis Batch: 154571

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	<0.35		2.0	0.35	ug/Kg			06/29/12 12:56	1
1,1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			06/29/12 12:56	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			06/29/12 12:56	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			06/29/12 12:56	1

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

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

Lab Sample ID: MB 500-154571/5

Matrix: Solid

Analysis Batch: 154571

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			06/29/12 12:56	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			06/29/12 12:56	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			06/29/12 12:56	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			06/29/12 12:56	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			06/29/12 12:56	1
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			06/29/12 12:56	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			06/29/12 12:56	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			06/29/12 12:56	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			06/29/12 12:56	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			06/29/12 12:56	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			06/29/12 12:56	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			06/29/12 12:56	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			06/29/12 12:56	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			06/29/12 12:56	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			06/29/12 12:56	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			06/29/12 12:56	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			06/29/12 12:56	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			06/29/12 12:56	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			06/29/12 12:56	1
Benzene	<0.074		0.25	0.074	ug/Kg			06/29/12 12:56	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			06/29/12 12:56	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			06/29/12 12:56	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			06/29/12 12:56	1
Bromoform	<0.44		2.0	0.44	ug/Kg			06/29/12 12:56	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			06/29/12 12:56	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			06/29/12 12:56	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			06/29/12 12:56	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			06/29/12 12:56	1
Chloroform	<0.21		1.0	0.21	ug/Kg			06/29/12 12:56	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			06/29/12 12:56	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			06/29/12 12:56	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			06/29/12 12:56	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			06/29/12 12:56	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			06/29/12 12:56	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			06/29/12 12:56	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			06/29/12 12:56	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			06/29/12 12:56	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			06/29/12 12:56	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			06/29/12 12:56	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			06/29/12 12:56	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			06/29/12 12:56	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			06/29/12 12:56	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			06/29/12 12:56	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			06/29/12 12:56	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			06/29/12 12:56	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			06/29/12 12:56	1
Styrene	<0.099		1.0	0.099	ug/Kg			06/29/12 12:56	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			06/29/12 12:56	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			06/29/12 12:56	1
Toluene	<0.12		0.25	0.12	ug/Kg			06/29/12 12:56	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

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

Lab Sample ID: MB 500-154571/5

Matrix: Solid

Analysis Batch: 154571

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			06/29/12 12:56	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			06/29/12 12:56	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			06/29/12 12:56	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			06/29/12 12:56	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			06/29/12 12:56	1
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			06/29/12 12:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		75 - 131		06/29/12 12:56	1
4-Bromofluorobenzene (Surr)	97		79 - 120		06/29/12 12:56	1
Dibromofluoromethane	91		74 - 123		06/29/12 12:56	1
Toluene-d8 (Surr)	98		80 - 120		06/29/12 12:56	1

Lab Sample ID: LCS 500-154571/4

Matrix: Solid

Analysis Batch: 154571

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	46.4		ug/Kg		93	80 - 120
1,1,1-Trichloroethane	50.0	42.7		ug/Kg		85	77 - 117
1,1,2,2-Tetrachloroethane	50.0	42.2		ug/Kg		84	78 - 123
1,1,2-Trichloroethane	50.0	40.5		ug/Kg		81	78 - 121
1,1-Dichloroethane	50.0	39.6		ug/Kg		79	66 - 118
1,1-Dichloroethene	50.0	41.6		ug/Kg		83	58 - 115
1,1-Dichloropropene	50.0	42.5		ug/Kg		85	71 - 113
1,2,3-Trichlorobenzene	50.0	32.3	*	ug/Kg		65	74 - 126
1,2,3-Trichloropropane	50.0	40.4		ug/Kg		81	77 - 119
1,2,4-Trichlorobenzene	50.0	36.8		ug/Kg		74	70 - 118
1,2,4-Trimethylbenzene	50.0	46.7		ug/Kg		93	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	36.3		ug/Kg		73	53 - 133
1,2-Dibromoethane	50.0	43.1		ug/Kg		86	79 - 120
1,2-Dichlorobenzene	50.0	43.9		ug/Kg		88	80 - 120
1,2-Dichloroethane	50.0	40.0		ug/Kg		80	76 - 117
1,2-Dichloropropane	50.0	43.6		ug/Kg		87	77 - 118
1,3,5-Trimethylbenzene	50.0	48.3		ug/Kg		97	83 - 120
1,3-Dichlorobenzene	50.0	46.3		ug/Kg		93	80 - 120
1,3-Dichloropropane	50.0	44.0		ug/Kg		88	79 - 114
1,4-Dichlorobenzene	50.0	45.9		ug/Kg		92	80 - 120
2,2-Dichloropropane	50.0	38.0		ug/Kg		76	70 - 117
2-Chlorotoluene	50.0	46.1		ug/Kg		92	80 - 120
4-Chlorotoluene	50.0	45.7		ug/Kg		91	80 - 120
Benzene	50.0	42.1		ug/Kg		84	74 - 115
Bromobenzene	50.0	47.4		ug/Kg		95	80 - 120
Bromochloromethane	50.0	42.7		ug/Kg		85	72 - 119
Bromodichloromethane	50.0	42.8		ug/Kg		86	79 - 117
Bromoform	50.0	39.2		ug/Kg		78	64 - 127
Bromomethane	50.0	38.7		ug/Kg		77	47 - 158
Carbon tetrachloride	50.0	45.1		ug/Kg		90	72 - 124
Chlorobenzene	50.0	46.6		ug/Kg		93	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

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

Lab Sample ID: LCS 500-154571/4

Matrix: Solid

Analysis Batch: 154571

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroethane	50.0	43.0		ug/Kg		86	54 - 143
Chloroform	50.0	41.7		ug/Kg		83	76 - 117
Chloromethane	50.0	41.8		ug/Kg		84	56 - 144
cis-1,2-Dichloroethene	50.0	42.0		ug/Kg		84	75 - 119
cis-1,3-Dichloropropene	53.8	46.0		ug/Kg		86	71 - 112
Dibromochloromethane	50.0	42.5		ug/Kg		85	73 - 120
Dibromomethane	50.0	42.6		ug/Kg		85	76 - 120
Dichlorodifluoromethane	50.0	42.4		ug/Kg		85	43 - 139
Ethylbenzene	50.0	48.9		ug/Kg		98	79 - 115
Hexachlorobutadiene	50.0	39.7		ug/Kg		79	71 - 128
Isopropylbenzene	50.0	41.0		ug/Kg		82	68 - 120
Methyl tert-butyl ether	50.0	35.1		ug/Kg		70	60 - 125
Methylene Chloride	50.0	40.2		ug/Kg		80	63 - 130
Naphthalene	50.0	35.7	*	ug/Kg		71	72 - 127
n-Butylbenzene	50.0	46.7		ug/Kg		93	78 - 119
N-Propylbenzene	50.0	47.5		ug/Kg		95	77 - 114
p-Isopropyltoluene	50.0	44.1		ug/Kg		88	77 - 120
sec-Butylbenzene	50.0	46.6		ug/Kg		93	79 - 117
Styrene	50.0	46.2		ug/Kg		92	80 - 120
tert-Butylbenzene	50.0	47.0		ug/Kg		94	80 - 120
Tetrachloroethene	50.0	48.7		ug/Kg		97	71 - 120
Toluene	50.0	46.4		ug/Kg		93	80 - 120
trans-1,2-Dichloroethene	50.0	43.9		ug/Kg		88	74 - 119
trans-1,3-Dichloropropene	48.6	41.7		ug/Kg		86	66 - 116
Trichloroethene	50.0	45.0		ug/Kg		90	75 - 120
Trichlorofluoromethane	50.0	45.3		ug/Kg		91	66 - 126
Vinyl chloride	50.0	46.0		ug/Kg		92	51 - 149
Xylenes, Total	150	135		ug/Kg		90	78 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	87		75 - 131
4-Bromofluorobenzene (Surr)	95		79 - 120
Dibromofluoromethane	89		74 - 123
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: MB 500-154851/6

Matrix: Solid

Analysis Batch: 154851

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	<0.35		2.0	0.35	ug/Kg			07/03/12 01:02	1
1,1,1-Trichloroethane	<0.20		1.0	0.20	ug/Kg			07/03/12 01:02	1
1,1,2,2-Tetrachloroethane	<0.23		1.0	0.23	ug/Kg			07/03/12 01:02	1
1,1,2-Trichloroethane	<0.28		1.0	0.28	ug/Kg			07/03/12 01:02	1
1,1-Dichloroethane	<0.19		1.0	0.19	ug/Kg			07/03/12 01:02	1
1,1-Dichloroethene	<0.31		1.0	0.31	ug/Kg			07/03/12 01:02	1
1,1-Dichloropropene	<0.34		1.0	0.34	ug/Kg			07/03/12 01:02	1
1,2,3-Trichlorobenzene	<0.35		2.0	0.35	ug/Kg			07/03/12 01:02	1
1,2,3-Trichloropropane	<0.57		2.0	0.57	ug/Kg			07/03/12 01:02	1

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

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

Lab Sample ID: MB 500-154851/6

Matrix: Solid

Analysis Batch: 154851

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,2,4-Trichlorobenzene	<0.38		2.0	0.38	ug/Kg			07/03/12 01:02	1
1,2,4-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			07/03/12 01:02	1
1,2-Dibromo-3-Chloropropane	<0.87		2.0	0.87	ug/Kg			07/03/12 01:02	1
1,2-Dibromoethane	<0.31		2.0	0.31	ug/Kg			07/03/12 01:02	1
1,2-Dichlorobenzene	<0.21		2.0	0.21	ug/Kg			07/03/12 01:02	1
1,2-Dichloroethane	<0.29		1.0	0.29	ug/Kg			07/03/12 01:02	1
1,2-Dichloropropane	<0.20		1.0	0.20	ug/Kg			07/03/12 01:02	1
1,3,5-Trimethylbenzene	<0.21		2.0	0.21	ug/Kg			07/03/12 01:02	1
1,3-Dichlorobenzene	<0.26		2.0	0.26	ug/Kg			07/03/12 01:02	1
1,3-Dichloropropane	<0.13		1.0	0.13	ug/Kg			07/03/12 01:02	1
1,4-Dichlorobenzene	<0.17		2.0	0.17	ug/Kg			07/03/12 01:02	1
2,2-Dichloropropane	<0.32		1.0	0.32	ug/Kg			07/03/12 01:02	1
2-Chlorotoluene	<0.21		1.0	0.21	ug/Kg			07/03/12 01:02	1
4-Chlorotoluene	<0.20		1.0	0.20	ug/Kg			07/03/12 01:02	1
Benzene	<0.074		0.25	0.074	ug/Kg			07/03/12 01:02	1
Bromobenzene	<0.43		2.0	0.43	ug/Kg			07/03/12 01:02	1
Bromochloromethane	<0.38		2.0	0.38	ug/Kg			07/03/12 01:02	1
Bromodichloromethane	<0.34		2.0	0.34	ug/Kg			07/03/12 01:02	1
Bromoform	<0.44		2.0	0.44	ug/Kg			07/03/12 01:02	1
Bromomethane	<0.68		2.0	0.68	ug/Kg			07/03/12 01:02	1
Carbon tetrachloride	<0.26		1.0	0.26	ug/Kg			07/03/12 01:02	1
Chlorobenzene	<0.14		1.0	0.14	ug/Kg			07/03/12 01:02	1
Chloroethane	<0.44		2.0	0.44	ug/Kg			07/03/12 01:02	1
Chloroform	<0.21		1.0	0.21	ug/Kg			07/03/12 01:02	1
Chloromethane	<0.46		2.0	0.46	ug/Kg			07/03/12 01:02	1
cis-1,2-Dichloroethene	<0.12		1.0	0.12	ug/Kg			07/03/12 01:02	1
cis-1,3-Dichloropropene	<0.18		1.0	0.18	ug/Kg			07/03/12 01:02	1
Dibromochloromethane	<0.35		2.0	0.35	ug/Kg			07/03/12 01:02	1
Dibromomethane	<0.48		2.0	0.48	ug/Kg			07/03/12 01:02	1
Dichlorodifluoromethane	<0.51		2.0	0.51	ug/Kg			07/03/12 01:02	1
Ethylbenzene	<0.13		0.25	0.13	ug/Kg			07/03/12 01:02	1
Hexachlorobutadiene	<0.35		2.0	0.35	ug/Kg			07/03/12 01:02	1
Isopropyl ether	<0.15		2.0	0.15	ug/Kg			07/03/12 01:02	1
Isopropylbenzene	<0.25		2.0	0.25	ug/Kg			07/03/12 01:02	1
Methyl tert-butyl ether	<0.43		2.0	0.43	ug/Kg			07/03/12 01:02	1
Methylene Chloride	<0.68		5.0	0.68	ug/Kg			07/03/12 01:02	1
Naphthalene	<0.49		2.0	0.49	ug/Kg			07/03/12 01:02	1
n-Butylbenzene	<0.13		1.0	0.13	ug/Kg			07/03/12 01:02	1
N-Propylbenzene	<0.18		2.0	0.18	ug/Kg			07/03/12 01:02	1
p-Isopropyltoluene	<0.19		2.0	0.19	ug/Kg			07/03/12 01:02	1
sec-Butylbenzene	<0.15		1.0	0.15	ug/Kg			07/03/12 01:02	1
Styrene	<0.099		1.0	0.099	ug/Kg			07/03/12 01:02	1
tert-Butylbenzene	<0.14		1.0	0.14	ug/Kg			07/03/12 01:02	1
Tetrachloroethene	<0.17		1.0	0.17	ug/Kg			07/03/12 01:02	1
Toluene	<0.12		0.25	0.12	ug/Kg			07/03/12 01:02	1
trans-1,2-Dichloroethene	<0.25		1.0	0.25	ug/Kg			07/03/12 01:02	1
trans-1,3-Dichloropropene	<0.21		1.0	0.21	ug/Kg			07/03/12 01:02	1
Trichloroethene	<0.19		0.50	0.19	ug/Kg			07/03/12 01:02	1
Trichlorofluoromethane	<0.42		2.0	0.42	ug/Kg			07/03/12 01:02	1
Vinyl chloride	<0.10		0.25	0.10	ug/Kg			07/03/12 01:02	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

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

Lab Sample ID: MB 500-154851/6

Matrix: Solid

Analysis Batch: 154851

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.068		0.50	0.068	ug/Kg			07/03/12 01:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 131					07/03/12 01:02	1
4-Bromofluorobenzene (Surr)	95		79 - 120					07/03/12 01:02	1
Dibromofluoromethane	95		74 - 123					07/03/12 01:02	1
Toluene-d8 (Surr)	100		80 - 120					07/03/12 01:02	1

Lab Sample ID: LCS 500-154851/5

Matrix: Solid

Analysis Batch: 154851

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	53.8		ug/Kg		108	80 - 120
1,1,1-Trichloroethane	50.0	47.8		ug/Kg		96	77 - 117
1,1,2,2-Tetrachloroethane	50.0	56.3		ug/Kg		113	78 - 123
1,1,2-Trichloroethane	50.0	52.8		ug/Kg		106	78 - 121
1,1-Dichloroethane	50.0	44.9		ug/Kg		90	66 - 118
1,1-Dichloroethene	50.0	42.3		ug/Kg		85	58 - 115
1,1-Dichloropropene	50.0	46.2		ug/Kg		92	71 - 113
1,2,3-Trichlorobenzene	50.0	39.6		ug/Kg		79	74 - 126
1,2,3-Trichloropropane	50.0	51.7		ug/Kg		103	77 - 119
1,2,4-Trichlorobenzene	50.0	40.0		ug/Kg		80	70 - 118
1,2,4-Trimethylbenzene	50.0	49.4		ug/Kg		99	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	47.4		ug/Kg		95	53 - 133
1,2-Dibromoethane	50.0	51.9		ug/Kg		104	79 - 120
1,2-Dichlorobenzene	50.0	49.7		ug/Kg		99	80 - 120
1,2-Dichloroethane	50.0	48.0		ug/Kg		96	76 - 117
1,2-Dichloropropane	50.0	48.6		ug/Kg		97	77 - 118
1,3,5-Trimethylbenzene	50.0	50.8		ug/Kg		102	83 - 120
1,3-Dichlorobenzene	50.0	49.0		ug/Kg		98	80 - 120
1,3-Dichloropropane	50.0	52.1		ug/Kg		104	79 - 114
1,4-Dichlorobenzene	50.0	49.2		ug/Kg		98	80 - 120
2,2-Dichloropropane	50.0	36.2		ug/Kg		72	70 - 117
2-Chlorotoluene	50.0	49.9		ug/Kg		100	80 - 120
4-Chlorotoluene	50.0	48.3		ug/Kg		97	80 - 120
Benzene	50.0	44.0		ug/Kg		88	74 - 115
Bromobenzene	50.0	54.9		ug/Kg		110	80 - 120
Bromochloromethane	50.0	48.7		ug/Kg		97	72 - 119
Bromodichloromethane	50.0	50.0		ug/Kg		100	79 - 117
Bromoform	50.0	51.0		ug/Kg		102	64 - 127
Bromomethane	50.0	44.8		ug/Kg		90	47 - 158
Carbon tetrachloride	50.0	46.3		ug/Kg		93	72 - 124
Chlorobenzene	50.0	50.6		ug/Kg		101	80 - 120
Chloroethane	50.0	43.7		ug/Kg		87	54 - 143
Chloroform	50.0	49.5		ug/Kg		99	76 - 117
Chloromethane	50.0	41.5		ug/Kg		83	56 - 144
cis-1,2-Dichloroethene	50.0	48.6		ug/Kg		97	75 - 119
cis-1,3-Dichloropropene	53.8	52.3		ug/Kg		97	71 - 112

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

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

Lab Sample ID: LCS 500-154851/5

Matrix: Solid

Analysis Batch: 154851

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibromochloromethane	50.0	50.8		ug/Kg		102	73 - 120
Dibromomethane	50.0	48.8		ug/Kg		98	76 - 120
Dichlorodifluoromethane	50.0	32.9		ug/Kg		66	43 - 139
Ethylbenzene	50.0	50.3		ug/Kg		101	79 - 115
Hexachlorobutadiene	50.0	39.8		ug/Kg		80	71 - 128
Isopropylbenzene	50.0	43.8		ug/Kg		88	68 - 120
Methyl tert-butyl ether	50.0	44.8		ug/Kg		90	60 - 125
Methylene Chloride	50.0	50.3		ug/Kg		101	63 - 130
Naphthalene	50.0	45.3		ug/Kg		91	72 - 127
n-Butylbenzene	50.0	46.0		ug/Kg		92	78 - 119
N-Propylbenzene	50.0	48.2		ug/Kg		96	77 - 114
p-Isopropyltoluene	50.0	45.2		ug/Kg		90	77 - 120
sec-Butylbenzene	50.0	48.2		ug/Kg		96	79 - 117
Styrene	50.0	49.5		ug/Kg		99	80 - 120
tert-Butylbenzene	50.0	49.4		ug/Kg		99	80 - 120
Tetrachloroethene	50.0	49.4		ug/Kg		99	71 - 120
Toluene	50.0	48.1		ug/Kg		96	80 - 120
trans-1,2-Dichloroethene	50.0	46.7		ug/Kg		93	74 - 119
trans-1,3-Dichloropropene	48.6	49.2		ug/Kg		101	66 - 116
Trichloroethene	50.0	47.1		ug/Kg		94	75 - 120
Trichlorofluoromethane	50.0	47.4		ug/Kg		95	66 - 126
Vinyl chloride	50.0	46.4		ug/Kg		93	51 - 149
Xylenes, Total	150	140		ug/Kg		93	78 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		75 - 131
4-Bromofluorobenzene (Surr)	100		79 - 120
Dibromofluoromethane	102		74 - 123
Toluene-d8 (Surr)	100		80 - 120

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-155114/1-A

Matrix: Solid

Analysis Batch: 155451

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155114

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1-Methylnaphthalene	<17		33	17	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
2-Methylnaphthalene	<43		170	43	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Acenaphthene	<9.9		33	9.9	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Acenaphthylene	<7.6		33	7.6	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Anthracene	<7.8		33	7.8	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Benzo[a]anthracene	<7.0		33	7.0	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Benzo[a]pyrene	<6.1		33	6.1	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Benzo[b]fluoranthene	<6.5		33	6.5	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Benzo[k]fluoranthene	<7.9		33	7.9	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Chrysene	<7.5		33	7.5	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Dibenz(a,h)anthracene	<9.3		33	9.3	ug/Kg		07/05/12 08:07	07/07/12 19:31	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-155114/1-A

Matrix: Solid

Analysis Batch: 155451

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<14		33	14	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Fluorene	<7.6		33	7.6	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Indeno[1,2,3-cd]pyrene	<11		33	11	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Naphthalene	<6.4		33	6.4	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Phenanthrene	<14		33	14	ug/Kg		07/05/12 08:07	07/07/12 19:31	1
Pyrene	<12		33	12	ug/Kg		07/05/12 08:07	07/07/12 19:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	106		30 - 119	07/05/12 08:07	07/07/12 19:31	1
Nitrobenzene-d5	104		30 - 115	07/05/12 08:07	07/07/12 19:31	1
Terphenyl-d14	110		36 - 134	07/05/12 08:07	07/07/12 19:31	1

Lab Sample ID: LCS 500-155114/2-A

Matrix: Solid

Analysis Batch: 155493

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	1670	1320		ug/Kg		79	62 - 110
Acenaphthene	1670	1290		ug/Kg		77	67 - 110
Acenaphthylene	1670	1450		ug/Kg		87	67 - 110
Anthracene	1670	1480		ug/Kg		89	67 - 112
Benzo[a]anthracene	1670	1470		ug/Kg		88	68 - 117
Benzo[a]pyrene	1670	1380		ug/Kg		83	64 - 118
Benzo[b]fluoranthene	1670	1420		ug/Kg		85	60 - 118
Benzo[g,h,i]perylene	1670	1620		ug/Kg		97	66 - 130
Benzo[k]fluoranthene	1670	1340		ug/Kg		80	56 - 129
Chrysene	1670	1540		ug/Kg		92	66 - 118
Dibenz(a,h)anthracene	1670	1470		ug/Kg		88	62 - 126
Fluoranthene	1670	1600		ug/Kg		96	68 - 121
Fluorene	1670	1220		ug/Kg		73	66 - 112
Indeno[1,2,3-cd]pyrene	1670	1540		ug/Kg		92	67 - 127
Naphthalene	1670	1350		ug/Kg		81	65 - 110
Phenanthrene	1670	1500		ug/Kg		90	66 - 118
Pyrene	1670	1530		ug/Kg		92	66 - 119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	94		30 - 119
Nitrobenzene-d5	105		30 - 115
Terphenyl-d14	116		36 - 134

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

Lab Sample ID: MB 500-155091/1-A

Matrix: Solid

Analysis Batch: 155204

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		07/04/12 17:50	07/05/12 16:51	1
PCB-1221	<7.3		17	7.3	ug/Kg		07/04/12 17:50	07/05/12 16:51	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

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

Lab Sample ID: MB 500-155091/1-A
Matrix: Solid
Analysis Batch: 155204

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 155091

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1232	<7.3		17	7.3	ug/Kg		07/04/12 17:50	07/05/12 16:51	1
PCB-1242	<5.5		17	5.5	ug/Kg		07/04/12 17:50	07/05/12 16:51	1
PCB-1248	<6.6		17	6.6	ug/Kg		07/04/12 17:50	07/05/12 16:51	1
PCB-1254	9.57	J	17	3.6	ug/Kg		07/04/12 17:50	07/05/12 16:51	1
PCB-1260	<8.2		17	8.2	ug/Kg		07/04/12 17:50	07/05/12 16:51	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	71		50 - 116	07/04/12 17:50	07/05/12 16:51	1
DCB Decachlorobiphenyl	111		48 - 142	07/04/12 17:50	07/05/12 16:51	1

Lab Sample ID: LCS 500-155091/3-A
Matrix: Solid
Analysis Batch: 155204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155091

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	141		ug/Kg		85	59 - 110
PCB-1260	167	190		ug/Kg		114	69 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	72		50 - 116
DCB Decachlorobiphenyl	115		48 - 142

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-154879/1-A
Matrix: Solid
Analysis Batch: 155516

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 154879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.22		1.0	0.22	mg/Kg		07/02/12 16:25	07/08/12 16:27	1
Barium	<0.12		1.0	0.12	mg/Kg		07/02/12 16:25	07/08/12 16:27	1
Cadmium	<0.050		0.20	0.050	mg/Kg		07/02/12 16:25	07/08/12 16:27	1
Chromium	<0.17		1.0	0.17	mg/Kg		07/02/12 16:25	07/08/12 16:27	1
Lead	<0.17		0.50	0.17	mg/Kg		07/02/12 16:25	07/08/12 16:27	1
Selenium	<0.29		1.0	0.29	mg/Kg		07/02/12 16:25	07/08/12 16:27	1
Silver	<0.060		0.50	0.060	mg/Kg		07/02/12 16:25	07/08/12 16:27	1

Lab Sample ID: LCS 500-154879/2-A
Matrix: Solid
Analysis Batch: 155516

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 154879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.62		mg/Kg		96	80 - 120
Barium	200	195		mg/Kg		97	80 - 120
Cadmium	5.00	5.12		mg/Kg		102	80 - 120
Chromium	20.0	21.1		mg/Kg		105	80 - 120
Lead	10.0	11.8		mg/Kg		118	80 - 120
Selenium	10.0	8.73		mg/Kg		87	80 - 120
Silver	5.00	5.06		mg/Kg		101	80 - 120

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 500-155335/7-A
Matrix: Solid
Analysis Batch: 155502

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 155335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	7.17	J	17	5.1	ug/Kg		07/08/12 09:45	07/08/12 12:29	1

Lab Sample ID: LCS 500-155335/8-A
Matrix: Solid
Analysis Batch: 155502

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 155335

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	167	142		ug/Kg		85	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 500-154722/1-A
Matrix: Solid
Analysis Batch: 154739

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 154722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	0.370	J	0.50	0.17	mg/Kg		06/30/12 10:40	06/30/12 12:17	1

Lab Sample ID: LCS 500-154722/2-A
Matrix: Solid
Analysis Batch: 154739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 154722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	5.00	5.33		mg/Kg		107	80 - 120

Lab Sample ID: MB 500-154900/1-A
Matrix: Solid
Analysis Batch: 155034

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 154900

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.50	0.17	mg/Kg		07/03/12 11:30	07/03/12 17:41	1

Lab Sample ID: LCS 500-154900/2-A
Matrix: Solid
Analysis Batch: 155034

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 154900

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	5.00	5.00		mg/Kg		100	80 - 120

Lab Chronicle

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Client Sample ID: B-23 (2-4)

Date Collected: 06/21/12 09:30

Date Received: 06/26/12 10:30

Lab Sample ID: 500-47664-1

Matrix: Solid
 Percent Solids: 76.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			154236	06/21/12 09:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	154571	06/29/12 14:33	BDA	TAL CHI
Total/NA	Prep	3541			155114	07/05/12 08:07	DAK	TAL CHI
Total/NA	Analysis	8270C		1	155455	07/08/12 01:35	DA	TAL CHI
Total/NA	Prep	3541			155091	07/04/12 17:50	DEA	TAL CHI
Total/NA	Analysis	8082		10	155204	07/06/12 09:27	PG	TAL CHI
Total/NA	Prep	7471A			155335	07/08/12 09:45	MBG	TAL CHI
Total/NA	Analysis	7471A		1	155502	07/08/12 13:04	MBG	TAL CHI
Total/NA	Prep	3050B			154879	07/02/12 16:25	PJ	TAL CHI
Total/NA	Analysis	6010B		1	155516	07/08/12 19:13	TDS	TAL CHI
Total/NA	Analysis	Moisture		1	154191	06/26/12 14:22	CMV	TAL CHI
Total/NA	Prep	9010B			154722	06/30/12 10:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	154739	06/30/12 12:17	EAT	TAL CHI

Client Sample ID: B-50 (2-4)

Date Collected: 06/21/12 13:05

Date Received: 06/26/12 10:30

Lab Sample ID: 500-47664-2

Matrix: Solid
 Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			154236	06/21/12 09:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	154571	06/29/12 14:58	BDA	TAL CHI
Total/NA	Prep	3541			155114	07/05/12 08:07	DAK	TAL CHI
Total/NA	Analysis	8270C		5	155455	07/08/12 01:55	DA	TAL CHI
Total/NA	Prep	3541			155091	07/04/12 17:50	DEA	TAL CHI
Total/NA	Analysis	8082		200	155204	07/06/12 09:41	PG	TAL CHI
Total/NA	Prep	7471A			155335	07/08/12 09:45	MBG	TAL CHI
Total/NA	Analysis	7471A		1	155502	07/08/12 13:10	MBG	TAL CHI
Total/NA	Prep	3050B			154879	07/02/12 16:25	PJ	TAL CHI
Total/NA	Analysis	6010B		1	155516	07/08/12 19:19	TDS	TAL CHI
Total/NA	Analysis	6010B		10	155570	07/09/12 09:11	TDS	TAL CHI
Total/NA	Analysis	Moisture		1	154191	06/26/12 14:22	CMV	TAL CHI
Total/NA	Prep	9010B			154722	06/30/12 10:40	EAT	TAL CHI
Total/NA	Analysis	9014		1	154739	06/30/12 12:17	EAT	TAL CHI

Client Sample ID: B-50 (7-9)

Date Collected: 06/21/12 13:50

Date Received: 06/26/12 10:30

Lab Sample ID: 500-47664-3

Matrix: Solid
 Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			154236	06/21/12 09:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	154851	07/03/12 07:21	BDA	TAL CHI
Total/NA	Prep	3541			155114	07/05/12 08:07	DAK	TAL CHI
Total/NA	Analysis	8270C		1	155455	07/08/12 02:14	DA	TAL CHI
Total/NA	Prep	3541			155091	07/04/12 17:50	DEA	TAL CHI

Lab Chronicle

Client: ARCADIS U.S., Inc.
 Project/Site: MadisonKipp WI001283.0008.00001

TestAmerica Job ID: 500-47664-1

Client Sample ID: B-50 (7-9)

Lab Sample ID: 500-47664-3

Date Collected: 06/21/12 13:50

Matrix: Solid

Date Received: 06/26/12 10:30

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		1	155204	07/05/12 19:13	PG	TAL CHI
Total/NA	Prep	7471A			155335	07/08/12 09:45	MBG	TAL CHI
Total/NA	Analysis	7471A		1	155502	07/08/12 13:12	MBG	TAL CHI
Total/NA	Prep	3050B			154879	07/02/12 16:25	PJ	TAL CHI
Total/NA	Analysis	6010B		1	155516	07/08/12 19:25	TDS	TAL CHI
Total/NA	Analysis	Moisture		1	154191	06/26/12 14:22	CMV	TAL CHI
Total/NA	Prep	9010B			154900	07/03/12 11:30	TAB	TAL CHI
Total/NA	Analysis	9014		1	155034		TAB	TAL CHI
						(Start) 07/03/12 17:53		
						(End) 07/03/12 17:53		

Client Sample ID: TRIP BLANK

Lab Sample ID: 500-47664-4

Date Collected: 06/21/12 00:00

Matrix: Solid

Date Received: 06/26/12 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			154236	06/21/12 09:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	154571	06/29/12 15:47	BDA	TAL CHI

Laboratory References:

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

Certification Summary

Client: ARCADIS U.S., Inc.

TestAmerica Job ID: 500-47664-1

Project/Site: MadisonKipp WI001283.0008.00001

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Chicago	Alabama	State Program	4	40461
TestAmerica Chicago	California	NELAC	9	01132CA
TestAmerica Chicago	Georgia	State Program	4	939
TestAmerica Chicago	Georgia	State Program	4	N/A
TestAmerica Chicago	Hawaii	State Program	9	N/A
TestAmerica Chicago	Illinois	NELAC	5	100201
TestAmerica Chicago	Indiana	State Program	5	C-IL-02
TestAmerica Chicago	Iowa	State Program	7	82
TestAmerica Chicago	Kansas	NELAC	7	E-10161
TestAmerica Chicago	Kentucky	State Program	4	90023
TestAmerica Chicago	Kentucky (UST)	State Program	4	66
TestAmerica Chicago	L-A-B	DoD ELAP		L2304
TestAmerica Chicago	L-A-B	ISO/IEC 17025		L2304
TestAmerica Chicago	Louisiana	NELAC	6	30720
TestAmerica Chicago	Massachusetts	State Program	1	M-IL035
TestAmerica Chicago	Mississippi	State Program	4	N/A
TestAmerica Chicago	North Carolina DENR	State Program	4	291
TestAmerica Chicago	North Dakota	State Program	8	R-194
TestAmerica Chicago	Oklahoma	State Program	6	8908
TestAmerica Chicago	South Carolina	State Program	4	77001
TestAmerica Chicago	Texas	NELAC	6	T104704252-09-TX
TestAmerica Chicago	USDA	Federal		P330-12-00038
TestAmerica Chicago	Virginia	NELAC	3	460142
TestAmerica Chicago	Wisconsin	State Program	5	999580010
TestAmerica Chicago	Wyoming	State Program	8	8TMS-Q

Accreditation may not be offered or required for all methods and analytes reported in this package . Please contact your project manager for the laboratory's current list of certified methods and analytes.

ID#: _____

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order # 500-47664

Send Results to:	Contact & Company Name: <u>Toni Schoen - ARCADIS</u>		Telephone: <u>414-277-6222</u>		Preservative	<u>F</u>	<u>F</u>	<u>F</u>											
	Address: <u>126 N. Jefferson St. #400</u>		Fax: <u>414-276-7603</u>		Filtered (✓)	<u>-</u>	<u>-</u>	<u>-</u>											
	City State Zip: <u>Milwaukee WI 53202</u>		E-mail Address: <u>toni.schoen@arcadis-us.com</u>		# of Containers	<u>1</u>	<u>1</u>	<u>1</u>											
	Project Name/Location (City, State): <u>Madison Kipp / Madison, WI</u>		Project #: <u>WI001283.0008.0001</u>		Container Information	<u>6</u>	<u>7</u>	<u>7</u>											
Sampler's Printed Name: <u>Jay Read</u>		Sampler's Signature: 		PARAMETER ANALYSIS & METHOD															
Sample ID		Collection		Type (✓)		Matrix		<u>VOCs 8260</u> <u>PCBs/PKAs 8082/8270C</u> <u>ROCK METALS</u> <u>Total Cyanides</u> <u>MOISTURE</u> <u>6010P/THAL</u> <u>9014</u>										REMARKS	
		Date Time		Comp. Grab														295	
1 B-23 (2-4)		6/21/12 0430		✓ S		S												1, 710.0	
2 B50 (2-4)		↓ 1305		✓ S		S												2.08%	
3 B50 (7-9)		↓ 1350		✓ S		S													
4 TRIP BLANK		- -		✓		S													

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: _____

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>ILM ALESSI</u>	Printed Name: <u>JEFF LUNT</u>	Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:	Printed Name:
<input checked="" type="checkbox"/> Cooler packed with ice (✓)		Signature: 	Signature: 	Signature:	Signature:	Signature:	Signature:	Signature:	Signature:
Specify Turnaround Requirements: <u>STANDARD</u>	Sample Receipt: <u>25</u>	Firm: <u>MCDALS</u>	Firm/Courier: <u>TA</u>	Firm/Courier:	Firm/Courier:	Firm/Courier:	Firm/Courier:	Firm/Courier:	Firm/Courier:
Shipping Tracking #:	Condition/Cooler Temp: _____	Date/Time: <u>6/25/12 1700</u>	Date/Time: <u>6/26/12 1030</u>	Date/Time:	Date/Time:	Date/Time:	Date/Time:	Date/Time:	Date/Time:

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 500-47664-1

Login Number: 47664

List Source: TestAmerica Chicago

List Number: 1

Creator: Lunt, Jeff T

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	2.5
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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

