TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-5928-1

Job Description: Ford TCAP - E200572

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

Attention: Mr. Rob Ellis

Approved for release.
Denise Pohl
Project Manager II
11/30/2011 3:56 PM

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11/30/2011

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford TCAP - E200572

Report Number: 240-5928-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 11/15/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt was 2.3, 2.6 and 2.8 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples AMW-19 (240-5928-1), AMW-20 (240-5928-2), DUP-01 (240-5928-3) and TRIP BLANK (240-5928-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/18/2011 and 11/23/2011.

1,2,3-Trichlorobenzene, Methylene Chloride and Naphthalene were detected in method blank MB 240-24524/5 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

Method(s) 8260B: The following sample(s) submitted for volatiles analysis was received with insufficient preservation (pH >2): AMW-20 (240-5928-2), DUP-01 (240-5928-3).

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples AMW-19 (240-5928-1), AMW-20 (240-5928-2) and DUP-01 (240-5928-3) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 11/17/2011 and analyzed on 11/21/2011.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Several analytes failed the recovery criteria low for the MS of sample AMW-19MS (240-5928-1) in batch 240-24168.

Several analytes failed the recovery criteria low for the MSD of sample AMW-19MSD (240-5928-1) in batch 240-24168. Dibenz(a,h)anthracene exceeded the rpd limit.

Refer to the QC report for details.

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

No other difficulties were encountered during the SVOC analyses.

All other quality control parameters were within the acceptance limits.

WISCONSIN DRO

Samples AMW-19 (240-5928-1), AMW-20 (240-5928-2) and DUP-01 (240-5928-3) were analyzed for Wisconsin DRO in accordance with Wisconsin DNR Modified DRO. The samples were prepared on 11/17/2011 and analyzed on 11/18/2011.

WI Diesel Range Organics (C10-C28) was detected in method blank MB 240-23759/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

No other difficulties were encountered during the WI-DRO analyses.

All other quality control parameters were within the acceptance limits.

WISCONSIN GRO

Samples AMW-19 (240-5928-1), AMW-20 (240-5928-2) and DUP-01 (240-5928-3) were analyzed for Wisconsin GRO in accordance with Wisconsin DNR Modified GRO. The samples were analyzed on 11/17/2011.

Method(s) WI-GRO: The following samples submitted for volatiles analysis were received with insufficient preservation (pH >2): AMW-19 (240-5928-1), AMW-20 (240-5928-2), DUP-01 (240-5928-3).

No other difficulties were encountered during the WI-GRO analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICP)

Samples AMW-19 (240-5928-1), AMW-20 (240-5928-2) and DUP-01 (240-5928-3) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 11/18/2011 and analyzed on 11/21/2011 and 11/22/2011.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

Several analytes were detected in method blank MB 240-23930/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

DISSOLVED MERCURY (CVAA)

Samples AMW-19 (240-5928-1), AMW-20 (240-5928-2) and DUP-01 (240-5928-3) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 11/17/2011 and analyzed on 11/21/2011.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-5928-1	**AMW-19**					
WI Diesel Range Organics (C10-C28)		0.26	B	0.10	mg/L	WI-DRO
Dissolved						
Barium		240	B	200	ug/L	6010B
Arsenic		4.7	J B	10	ug/L	6010B
Beryllium		0.84	J B	5.0	ug/L	6010B
Calcium		150000	B	5000	ug/L	6010B
Cobalt		4.9	J	7.0	ug/L	6010B
Iron		170		100	ug/L	6010B
Potassium		4300	J B	5000	ug/L	6010B
Magnesium		41000	B	5000	ug/L	6010B
Manganese		2800	B	15	ug/L	6010B
Sodium		55000		5000	ug/L	6010B
Nickel		3.4	J	40	ug/L	6010B
Antimony		2.9	J	10	ug/L	6010B
240-5928-2	**AMW-20**					
Acetone		5.4	J	10	ug/L	8260B
Benzene		0.14	J	1.0	ug/L	8260B
2-Butanone (MEK)		0.88	J	10	ug/L	8260B
Tetrahydrofuran		0.51	J	5.0	ug/L	8260B
Toluene		0.19	J	1.0	ug/L	8260B
Methylcyclohexane		0.15	J	1.0	ug/L	8260B
WI Diesel Range Organics (C10-C28)		0.63	B	0.099	mg/L	WI-DRO
Dissolved						
Barium		200	B	200	ug/L	6010B
Arsenic		4.3	J B	10	ug/L	6010B
Beryllium		0.79	J B	5.0	ug/L	6010B
Calcium		180000	B	5000	ug/L	6010B
Cobalt		5.3	J	7.0	ug/L	6010B
Potassium		3500	J B	5000	ug/L	6010B
Magnesium		49000	B	5000	ug/L	6010B
Manganese		1800	B	15	ug/L	6010B
Sodium		66000		5000	ug/L	6010B
Nickel		6.9	J	40	ug/L	6010B
Antimony		3.3	J	10	ug/L	6010B
Vanadium		0.64	J	7.0	ug/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-5928-3FD	**DUP-01**					
Acetone		1.9	J	10	ug/L	8260B
Toluene		0.14	J	1.0	ug/L	8260B
WI Diesel Range Organics (C10-C28)		0.28	B	0.097	mg/L	WI-DRO
Dissolved						
Barium		200	B	200	ug/L	6010B
Arsenic		4.3	J B	10	ug/L	6010B
Beryllium		0.80	J B	5.0	ug/L	6010B
Calcium		190000	B	5000	ug/L	6010B
Cobalt		9.9		7.0	ug/L	6010B
Potassium		3600	J B	5000	ug/L	6010B
Magnesium		51000	B	5000	ug/L	6010B
Manganese		1900	B	15	ug/L	6010B
Sodium		69000		5000	ug/L	6010B
Nickel		7.6	J	40	ug/L	6010B
240-5928-4TB	**TRIP BLANK**					
1,2,3-Trichlorobenzene		0.73	J B	1.0	ug/L	8260B
Naphthalene		0.58	J B	1.0	ug/L	8260B
Methylene Chloride		0.47	J B	1.0	ug/L	8260B

METHOD SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Volatile Organic Compounds (GC/MS)	TAL NC	SW846 8260B	
Purge and Trap	TAL NC		SW846 5030B
Semivolatile Organic Compounds (GC/MS)	TAL NC	SW846 8270C	
Liquid-Liquid Extraction (Continuous)			SW846 3520C
Wisconsin - Gasoline Range Organics (GC)	TAL NC	WI-GRO WI-GRO	
Purge and Trap	TAL NC		SW846 5030B
Wisconsin - Diesel Range Organics (GC)	TAL NC	WI-DRO WI-DRO	
Liquid-Liquid Extraction (Separatory Funnel)			SW846 3510C
Metals (ICP)	TAL NC	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals			SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Mercury (CVAA)	TAL NC	SW846 7470A	
Preparation, Mercury			SW846 7470A
Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL NC = TestAmerica North Canton

Method References:

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

WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Method	Analyst	Analyst ID
SW846 8260B	Evans, Laura	LE
SW846 8260B	Quayle, Rick	RQ
SW846 8270C	Hula, Tom	TH
WI-GRO WI-GRO	Bolgrin, Deborah	DB
WI-DRO WI-DRO	Geis, Sharon	SG
SW846 6010B	Counts, Karen	KC
SW846 7470A	Sutherland, Aaron	AS

SAMPLE SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-5928-1	AMW-19	Water	11/11/2011 1145	11/15/2011 0900
240-5928-1MS	AMW-19	Water	11/11/2011 1145	11/15/2011 0900
240-5928-1MSD	AMW-19	Water	11/11/2011 1145	11/15/2011 0900
240-5928-2	AMW-20	Water	11/11/2011 1230	11/15/2011 0900
240-5928-3FD	DUP-01	Water	11/11/2011 0000	11/15/2011 0900
240-5928-4TB	TRIP BLANK	Water	11/11/2011 0000	11/15/2011 0900

SAMPLE RESULTS

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **AMW-19**

Lab Sample ID: 240-5928-1 Date Sampled: 11/11/2011 1145
Client Matrix: Water Date Received: 11/15/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-24524	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX7736.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2011 1239			Final Weight/Volume:	5 mL
Prep Date:	11/23/2011 1239				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.23	1.0
1,1,1-Trichloroethane	ND		0.22	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.28	1.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.15	1.0
1,1-Dichloroethene	ND		0.19	1.0
1,1-Dichloropropene	ND		0.13	1.0
1,2,3-Trichlorobenzene	ND		0.17	1.0
1,2,3-Trichloropropane	ND		0.43	1.0
1,2,4-Trichlorobenzene	ND		0.15	1.0
1,2,4-Trimethylbenzene	ND		0.12	1.0
1,2-Dibromo-3-Chloropropane	ND		0.67	2.0
1,2-Dichlorobenzene	ND		0.13	1.0
1,2-Dichloroethane	ND		0.22	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,3,5-Trimethylbenzene	ND		0.096	1.0
1,3-Dichlorobenzene	ND		0.14	1.0
1,3-Dichloropropane	ND		0.16	1.0
1,4-Dichlorobenzene	ND		0.13	1.0
Allyl chloride	ND		0.35	2.0
2,2-Dichloropropane	ND		0.13	1.0
2-Chlorotoluene	ND		0.11	1.0
2-Hexanone	ND		0.41	10
Bromobenzene	ND		0.13	1.0
Bromochloromethane	ND		0.29	1.0
4-Chlorotoluene	ND		0.18	1.0
p-Isopropyltoluene	ND		0.12	1.0
Acetone	ND		1.1	10
Benzene	ND		0.13	1.0
Bromoform	ND		0.64	1.0
Bromomethane	ND		0.41	1.0
Carbon disulfide	ND		0.13	1.0
Carbon tetrachloride	ND		0.13	1.0
Chlorobenzene	ND		0.15	1.0
Chloroethane	ND		0.29	1.0
Chloroform	ND		0.16	1.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.17	1.0
cis-1,3-Dichloropropene	ND		0.14	1.0
Cyclohexane	ND		0.12	1.0
Hexachlorobutadiene	ND		0.30	1.0
Dibromomethane	ND		0.28	1.0
Bromodichloromethane	ND		0.15	1.0
Dichlorodifluoromethane	ND		0.31	1.0
Dichlorofluoromethane	ND		0.42	1.0

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **AMW-19**

Lab Sample ID: 240-5928-1 Date Sampled: 11/11/2011 1145
Client Matrix: Water Date Received: 11/15/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-24524	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX7736.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2011 1239			Final Weight/Volume:	5 mL
Prep Date:	11/23/2011 1239				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethyl ether	ND		0.31	1.0
Ethylbenzene	ND		0.17	1.0
1,2-Dibromoethane	ND		0.24	1.0
Naphthalene	ND		0.24	1.0
m-Xylene & p-Xylene	ND		0.24	2.0
n-Butylbenzene	ND		0.12	1.0
Isopropylbenzene	ND		0.13	1.0
Methyl acetate	ND		0.38	10
N-Propylbenzene	ND		0.14	1.0
2-Butanone (MEK)	ND		0.57	10
4-Methyl-2-pentanone (MIBK)	ND		0.32	5.0
sec-Butylbenzene	ND		0.13	1.0
Methyl tert butyl ether	ND		0.17	2.0
Methylene Chloride	ND		0.33	1.0
o-Xylene	ND		0.14	1.0
Styrene	ND		0.11	1.0
tert-Butylbenzene	ND		0.13	1.0
Tetrachloroethene	ND		0.29	1.0
Tetrahydrofuran	ND		0.42	5.0
Toluene	ND		0.13	1.0
trans-1,2-Dichloroethene	ND		0.19	1.0
trans-1,3-Dichloropropene	ND		0.19	1.0
Trichloroethene	ND		0.17	1.0
Trichlorofluoromethane	ND		0.21	1.0
Vinyl chloride	ND		0.22	1.0
Methylcyclohexane	ND		0.13	1.0
Chlorodibromomethane	ND		0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101		63 - 129
4-Bromofluorobenzene (Surr)	88		66 - 117
Toluene-d8 (Surr)	100		74 - 115
Dibromofluoromethane (Surr)	104		75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **AMW-20**

Lab Sample ID: 240-5928-2 Date Sampled: 11/11/2011 1230
Client Matrix: Water Date Received: 11/15/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-23941	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ1224.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/18/2011 1228			Final Weight/Volume:	5 mL
Prep Date:	11/18/2011 1228				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.23	1.0
1,1,1-Trichloroethane	ND		0.22	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.28	1.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.15	1.0
1,1-Dichloroethene	ND		0.19	1.0
1,1-Dichloropropene	ND		0.13	1.0
1,2,3-Trichlorobenzene	ND		0.17	1.0
1,2,3-Trichloropropane	ND		0.43	1.0
1,2,4-Trichlorobenzene	ND		0.15	1.0
1,2,4-Trimethylbenzene	ND		0.12	1.0
1,2-Dibromo-3-Chloropropane	ND		0.67	2.0
1,2-Dichlorobenzene	ND		0.13	1.0
1,2-Dichloroethane	ND		0.22	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,3,5-Trimethylbenzene	ND		0.096	1.0
1,3-Dichlorobenzene	ND		0.14	1.0
1,3-Dichloropropane	ND		0.16	1.0
1,4-Dichlorobenzene	ND		0.13	1.0
Allyl chloride	ND		0.35	2.0
2,2-Dichloropropane	ND		0.13	1.0
2-Chlorotoluene	ND		0.11	1.0
2-Hexanone	ND		0.41	10
Bromobenzene	ND		0.13	1.0
Bromochloromethane	ND		0.29	1.0
4-Chlorotoluene	ND		0.18	1.0
p-Isopropyltoluene	ND		0.12	1.0
Acetone	5.4	J	1.1	10
Benzene	0.14	J	0.13	1.0
Bromoform	ND		0.64	1.0
Bromomethane	ND		0.41	1.0
Carbon disulfide	ND		0.13	1.0
Carbon tetrachloride	ND		0.13	1.0
Chlorobenzene	ND		0.15	1.0
Chloroethane	ND		0.29	1.0
Chloroform	ND		0.16	1.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.17	1.0
cis-1,3-Dichloropropene	ND		0.14	1.0
Cyclohexane	ND		0.12	1.0
Hexachlorobutadiene	ND		0.30	1.0
Dibromomethane	ND		0.28	1.0
Bromodichloromethane	ND		0.15	1.0
Dichlorodifluoromethane	ND		0.31	1.0
Dichlorofluoromethane	ND		0.42	1.0

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **AMW-20**

Lab Sample ID: 240-5928-2 Date Sampled: 11/11/2011 1230
Client Matrix: Water Date Received: 11/15/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-23941	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ1224.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/18/2011 1228			Final Weight/Volume:	5 mL
Prep Date:	11/18/2011 1228				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethyl ether	ND		0.31	1.0
Ethylbenzene	ND		0.17	1.0
1,2-Dibromoethane	ND		0.24	1.0
Naphthalene	ND		0.24	1.0
m-Xylene & p-Xylene	ND		0.24	2.0
n-Butylbenzene	ND		0.12	1.0
Isopropylbenzene	ND		0.13	1.0
Methyl acetate	ND		0.38	10
N-Propylbenzene	ND		0.14	1.0
2-Butanone (MEK)	0.88	J	0.57	10
4-Methyl-2-pentanone (MIBK)	ND		0.32	5.0
sec-Butylbenzene	ND		0.13	1.0
Methyl tert butyl ether	ND		0.17	2.0
Methylene Chloride	ND		0.33	1.0
o-Xylene	ND		0.14	1.0
Styrene	ND		0.11	1.0
tert-Butylbenzene	ND		0.13	1.0
Tetrachloroethene	ND		0.29	1.0
Tetrahydrofuran	0.51	J	0.42	5.0
Toluene	0.19	J	0.13	1.0
trans-1,2-Dichloroethene	ND		0.19	1.0
trans-1,3-Dichloropropene	ND		0.19	1.0
Trichloroethene	ND		0.17	1.0
Trichlorofluoromethane	ND		0.21	1.0
Vinyl chloride	ND		0.22	1.0
Methylcyclohexane	0.15	J	0.13	1.0
Chlorodibromomethane	ND		0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87		63 - 129
4-Bromofluorobenzene (Surr)	101		66 - 117
Toluene-d8 (Surr)	99		74 - 115
Dibromofluoromethane (Surr)	91		75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **DUP-01**

Lab Sample ID: 240-5928-3FD Date Sampled: 11/11/2011 0000
Client Matrix: Water Date Received: 11/15/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-23941	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ1225.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/18/2011 1251			Final Weight/Volume:	5 mL
Prep Date:	11/18/2011 1251				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.23	1.0
1,1,1-Trichloroethane	ND		0.22	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.28	1.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.15	1.0
1,1-Dichloroethene	ND		0.19	1.0
1,1-Dichloropropene	ND		0.13	1.0
1,2,3-Trichlorobenzene	ND		0.17	1.0
1,2,3-Trichloropropane	ND		0.43	1.0
1,2,4-Trichlorobenzene	ND		0.15	1.0
1,2,4-Trimethylbenzene	ND		0.12	1.0
1,2-Dibromo-3-Chloropropane	ND		0.67	2.0
1,2-Dichlorobenzene	ND		0.13	1.0
1,2-Dichloroethane	ND		0.22	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,3,5-Trimethylbenzene	ND		0.096	1.0
1,3-Dichlorobenzene	ND		0.14	1.0
1,3-Dichloropropane	ND		0.16	1.0
1,4-Dichlorobenzene	ND		0.13	1.0
Allyl chloride	ND		0.35	2.0
2,2-Dichloropropane	ND		0.13	1.0
2-Chlorotoluene	ND		0.11	1.0
2-Hexanone	ND		0.41	10
Bromobenzene	ND		0.13	1.0
Bromochloromethane	ND		0.29	1.0
4-Chlorotoluene	ND		0.18	1.0
p-Isopropyltoluene	ND		0.12	1.0
Acetone	1.9	J	1.1	10
Benzene	ND		0.13	1.0
Bromoform	ND		0.64	1.0
Bromomethane	ND		0.41	1.0
Carbon disulfide	ND		0.13	1.0
Carbon tetrachloride	ND		0.13	1.0
Chlorobenzene	ND		0.15	1.0
Chloroethane	ND		0.29	1.0
Chloroform	ND		0.16	1.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.17	1.0
cis-1,3-Dichloropropene	ND		0.14	1.0
Cyclohexane	ND		0.12	1.0
Hexachlorobutadiene	ND		0.30	1.0
Dibromomethane	ND		0.28	1.0
Bromodichloromethane	ND		0.15	1.0
Dichlorodifluoromethane	ND		0.31	1.0
Dichlorofluoromethane	ND		0.42	1.0

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **DUP-01**

Lab Sample ID: 240-5928-3FD Date Sampled: 11/11/2011 0000
Client Matrix: Water Date Received: 11/15/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-23941	Instrument ID:	A3UX11
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXJ1225.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/18/2011 1251			Final Weight/Volume:	5 mL
Prep Date:	11/18/2011 1251				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethyl ether	ND		0.31	1.0
Ethylbenzene	ND		0.17	1.0
1,2-Dibromoethane	ND		0.24	1.0
Naphthalene	ND		0.24	1.0
m-Xylene & p-Xylene	ND		0.24	2.0
n-Butylbenzene	ND		0.12	1.0
Isopropylbenzene	ND		0.13	1.0
Methyl acetate	ND		0.38	10
N-Propylbenzene	ND		0.14	1.0
2-Butanone (MEK)	ND		0.57	10
4-Methyl-2-pentanone (MIBK)	ND		0.32	5.0
sec-Butylbenzene	ND		0.13	1.0
Methyl tert butyl ether	ND		0.17	2.0
Methylene Chloride	ND		0.33	1.0
o-Xylene	ND		0.14	1.0
Styrene	ND		0.11	1.0
tert-Butylbenzene	ND		0.13	1.0
Tetrachloroethene	ND		0.29	1.0
Tetrahydrofuran	ND		0.42	5.0
Toluene	0.14	J	0.13	1.0
trans-1,2-Dichloroethene	ND		0.19	1.0
trans-1,3-Dichloropropene	ND		0.19	1.0
Trichloroethene	ND		0.17	1.0
Trichlorofluoromethane	ND		0.21	1.0
Vinyl chloride	ND		0.22	1.0
Methylcyclohexane	ND		0.13	1.0
Chlorodibromomethane	ND		0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88		63 - 129
4-Bromofluorobenzene (Surr)	96		66 - 117
Toluene-d8 (Surr)	98		74 - 115
Dibromofluoromethane (Surr)	92		75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 240-5928-4TB Date Sampled: 11/11/2011 0000
Client Matrix: Water Date Received: 11/15/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-24524	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX7742.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2011 1456			Final Weight/Volume:	5 mL
Prep Date:	11/23/2011 1456				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.23	1.0
1,1,1-Trichloroethane	ND		0.22	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.28	1.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.15	1.0
1,1-Dichloroethene	ND		0.19	1.0
1,1-Dichloropropene	ND		0.13	1.0
1,2,3-Trichlorobenzene	0.73	J B	0.17	1.0
1,2,3-Trichloropropane	ND		0.43	1.0
1,2,4-Trichlorobenzene	ND		0.15	1.0
1,2,4-Trimethylbenzene	ND		0.12	1.0
1,2-Dibromo-3-Chloropropane	ND		0.67	2.0
1,2-Dichlorobenzene	ND		0.13	1.0
1,2-Dichloroethane	ND		0.22	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,3,5-Trimethylbenzene	ND		0.096	1.0
1,3-Dichlorobenzene	ND		0.14	1.0
1,3-Dichloropropane	ND		0.16	1.0
1,4-Dichlorobenzene	ND		0.13	1.0
Allyl chloride	ND		0.35	2.0
2,2-Dichloropropane	ND		0.13	1.0
2-Chlorotoluene	ND		0.11	1.0
2-Hexanone	ND		0.41	10
Bromobenzene	ND		0.13	1.0
Bromochloromethane	ND		0.29	1.0
4-Chlorotoluene	ND		0.18	1.0
p-Isopropyltoluene	ND		0.12	1.0
Acetone	ND		1.1	10
Benzene	ND		0.13	1.0
Bromoform	ND		0.64	1.0
Bromomethane	ND		0.41	1.0
Carbon disulfide	ND		0.13	1.0
Carbon tetrachloride	ND		0.13	1.0
Chlorobenzene	ND		0.15	1.0
Chloroethane	ND		0.29	1.0
Chloroform	ND		0.16	1.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.17	1.0
cis-1,3-Dichloropropene	ND		0.14	1.0
Cyclohexane	ND		0.12	1.0
Hexachlorobutadiene	ND		0.30	1.0
Dibromomethane	ND		0.28	1.0
Bromodichloromethane	ND		0.15	1.0
Dichlorodifluoromethane	ND		0.31	1.0
Dichlorofluoromethane	ND		0.42	1.0

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **TRIP BLANK**

Lab Sample ID: 240-5928-4TB Date Sampled: 11/11/2011 0000
Client Matrix: Water Date Received: 11/15/2011 0900

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-24524	Instrument ID:	A3UX10
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXX7742.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2011 1456			Final Weight/Volume:	5 mL
Prep Date:	11/23/2011 1456				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethyl ether	ND		0.31	1.0
Ethylbenzene	ND		0.17	1.0
1,2-Dibromoethane	ND		0.24	1.0
Naphthalene	0.58	J B	0.24	1.0
m-Xylene & p-Xylene	ND		0.24	2.0
n-Butylbenzene	ND		0.12	1.0
Isopropylbenzene	ND		0.13	1.0
Methyl acetate	ND		0.38	10
N-Propylbenzene	ND		0.14	1.0
2-Butanone (MEK)	ND		0.57	10
4-Methyl-2-pentanone (MIBK)	ND		0.32	5.0
sec-Butylbenzene	ND		0.13	1.0
Methyl tert butyl ether	ND		0.17	2.0
Methylene Chloride	0.47	J B	0.33	1.0
o-Xylene	ND		0.14	1.0
Styrene	ND		0.11	1.0
tert-Butylbenzene	ND		0.13	1.0
Tetrachloroethene	ND		0.29	1.0
Tetrahydrofuran	ND		0.42	5.0
Toluene	ND		0.13	1.0
trans-1,2-Dichloroethene	ND		0.19	1.0
trans-1,3-Dichloropropene	ND		0.19	1.0
Trichloroethene	ND		0.17	1.0
Trichlorofluoromethane	ND		0.21	1.0
Vinyl chloride	ND		0.22	1.0
Methylcyclohexane	ND		0.13	1.0
Chlorodibromomethane	ND		0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 129
4-Bromofluorobenzene (Surr)	88		66 - 117
Toluene-d8 (Surr)	102		74 - 115
Dibromofluoromethane (Surr)	102		75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **AMW-19**

Lab Sample ID: 240-5928-1 Date Sampled: 11/11/2011 1145
Client Matrix: Water Date Received: 11/15/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	240-24168	Instrument ID:	A4AG2
Prep Method:	3520C	Prep Batch:	240-23673	Lab File ID:	1121025.D
Dilution:	1.0			Initial Weight/Volume:	960 mL
Analysis Date:	11/21/2011 1750			Final Weight/Volume:	2.00 mL
Prep Date:	11/17/2011 0817			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.10	10
Acenaphthylene	ND		0.10	10
Anthracene	ND		0.10	10
Benzo[a]anthracene	ND		0.10	0.21
Benzo[b]fluoranthene	ND		0.10	10
Benzo[k]fluoranthene	ND		0.10	10
Benzo[g,h,i]perylene	ND		0.10	10
Benzo[a]pyrene	ND		0.10	10
Chrysene	ND		0.10	10
2-Methylnaphthalene	ND		0.10	10
Dibenz(a,h)anthracene	ND		0.10	10
Fluoranthene	ND		0.10	10
Fluorene	ND		0.10	10
Indeno[1,2,3-cd]pyrene	ND		0.10	10
Naphthalene	ND		0.10	10
Phenanthrene	ND		0.10	10
Pyrene	ND		0.10	10

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	48		28 - 110
2-Fluorophenol (Surr)	56		10 - 110
2,4,6-Tribromophenol (Surr)	54		22 - 120
Nitrobenzene-d5 (Surr)	57		27 - 111
Phenol-d5 (Surr)	59		10 - 110
Terphenyl-d14 (Surr)	37		37 - 119

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **AMW-20**

Lab Sample ID: 240-5928-2 Date Sampled: 11/11/2011 1230
Client Matrix: Water Date Received: 11/15/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	240-24168	Instrument ID:	A4AG2
Prep Method:	3520C	Prep Batch:	240-23673	Lab File ID:	1121028.D
Dilution:	1.0			Initial Weight/Volume:	990 mL
Analysis Date:	11/21/2011 1841			Final Weight/Volume:	2.00 mL
Prep Date:	11/17/2011 0817			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.10	10
Acenaphthylene	ND		0.10	10
Anthracene	ND		0.10	10
Benzo[a]anthracene	ND		0.10	0.20
Benzo[b]fluoranthene	ND		0.10	10
Benzo[k]fluoranthene	ND		0.10	10
Benzo[g,h,i]perylene	ND		0.10	10
Benzo[a]pyrene	ND		0.10	10
Chrysene	ND		0.10	10
2-Methylnaphthalene	ND		0.10	10
Dibenz(a,h)anthracene	ND		0.10	10
Fluoranthene	ND		0.10	10
Fluorene	ND		0.10	10
Indeno[1,2,3-cd]pyrene	ND		0.10	10
Naphthalene	ND		0.10	10
Phenanthrene	ND		0.10	10
Pyrene	ND		0.10	10

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	57		28 - 110
2-Fluorophenol (Surr)	65		10 - 110
2,4,6-Tribromophenol (Surr)	63		22 - 120
Nitrobenzene-d5 (Surr)	69		27 - 111
Phenol-d5 (Surr)	67		10 - 110
Terphenyl-d14 (Surr)	64		37 - 119

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **DUP-01**

Lab Sample ID: 240-5928-3FD Date Sampled: 11/11/2011 0000
Client Matrix: Water Date Received: 11/15/2011 0900

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	240-24168	Instrument ID:	A4AG2
Prep Method:	3520C	Prep Batch:	240-23673	Lab File ID:	1121029.D
Dilution:	1.0			Initial Weight/Volume:	990 mL
Analysis Date:	11/21/2011 1857			Final Weight/Volume:	2.00 mL
Prep Date:	11/17/2011 0817			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.10	10
Acenaphthylene	ND		0.10	10
Anthracene	ND		0.10	10
Benzo[a]anthracene	ND		0.10	0.20
Benzo[b]fluoranthene	ND		0.10	10
Benzo[k]fluoranthene	ND		0.10	10
Benzo[g,h,i]perylene	ND		0.10	10
Benzo[a]pyrene	ND		0.10	10
Chrysene	ND		0.10	10
2-Methylnaphthalene	ND		0.10	10
Dibenz(a,h)anthracene	ND		0.10	10
Fluoranthene	ND		0.10	10
Fluorene	ND		0.10	10
Indeno[1,2,3-cd]pyrene	ND		0.10	10
Naphthalene	ND		0.10	10
Phenanthrene	ND		0.10	10
Pyrene	ND		0.10	10

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	52		28 - 110
2-Fluorophenol (Surr)	58		10 - 110
2,4,6-Tribromophenol (Surr)	53		22 - 120
Nitrobenzene-d5 (Surr)	60		27 - 111
Phenol-d5 (Surr)	58		10 - 110
Terphenyl-d14 (Surr)	52		37 - 119

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **AMW-19**

Lab Sample ID: 240-5928-1 Date Sampled: 11/11/2011 1145
Client Matrix: Water Date Received: 11/15/2011 0900

WI-GRO Wisconsin - Gasoline Range Organics (GC)

Analysis Method:	WI-GRO	Analysis Batch:	240-23696	Instrument ID:	AFID
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	AF111718.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2011 1751			Final Weight/Volume:	5 mL
Prep Date:	11/17/2011 1751			Injection Volume:	

Analyte	Result (ug/L)	Qualifier	MDL	RL
WI Gasoline Range Organics (C6-C10)	ND		26	100

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **AMW-20**

Lab Sample ID: 240-5928-2 Date Sampled: 11/11/2011 1230
Client Matrix: Water Date Received: 11/15/2011 0900

WI-GRO Wisconsin - Gasoline Range Organics (GC)

Analysis Method:	WI-GRO	Analysis Batch:	240-23696	Instrument ID:	AFID
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	AF111721.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2011 1924			Final Weight/Volume:	5 mL
Prep Date:	11/17/2011 1924			Injection Volume:	

Analyte	Result (ug/L)	Qualifier	MDL	RL
WI Gasoline Range Organics (C6-C10)	ND		26	100

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **DUP-01**

Lab Sample ID: 240-5928-3FD Date Sampled: 11/11/2011 0000
Client Matrix: Water Date Received: 11/15/2011 0900

WI-GRO Wisconsin - Gasoline Range Organics (GC)

Analysis Method:	WI-GRO	Analysis Batch:	240-23696	Instrument ID:	AFID
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	AF111722.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2011 1955			Final Weight/Volume:	5 mL
Prep Date:	11/17/2011 1955			Injection Volume:	

Analyte	Result (ug/L)	Qualifier	MDL	RL
WI Gasoline Range Organics (C6-C10)	ND		26	100

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **AMW-19**

Lab Sample ID: 240-5928-1 Date Sampled: 11/11/2011 1145
Client Matrix: Water Date Received: 11/15/2011 0900

WI-DRO Wisconsin - Diesel Range Organics (GC)

Analysis Method:	WI-DRO	Analysis Batch:	240-23922	Instrument ID:	A2HP14F
Prep Method:	3510C	Prep Batch:	240-23759	Lab File ID:	P14F0000016.D
Dilution:	1.0			Initial Weight/Volume:	970 mL
Analysis Date:	11/18/2011 1551			Final Weight/Volume:	1.00 mL
Prep Date:	11/17/2011 1151			Injection Volume:	1 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
WI Diesel Range Organics (C10-C28)	0.26	B	0.016	0.10

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **AMW-20**

Lab Sample ID: 240-5928-2 Date Sampled: 11/11/2011 1230
Client Matrix: Water Date Received: 11/15/2011 0900

WI-DRO Wisconsin - Diesel Range Organics (GC)

Analysis Method:	WI-DRO	Analysis Batch:	240-23922	Instrument ID:	A2HP14F
Prep Method:	3510C	Prep Batch:	240-23759	Lab File ID:	P14F0000019.D
Dilution:	1.0			Initial Weight/Volume:	1010 mL
Analysis Date:	11/18/2011 1703			Final Weight/Volume:	1.00 mL
Prep Date:	11/17/2011 1151			Injection Volume:	1 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
WI Diesel Range Organics (C10-C28)	0.63	B	0.016	0.099

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **DUP-01**

Lab Sample ID: 240-5928-3FD Date Sampled: 11/11/2011 0000
Client Matrix: Water Date Received: 11/15/2011 0900

WI-DRO Wisconsin - Diesel Range Organics (GC)

Analysis Method:	WI-DRO	Analysis Batch:	240-23922	Instrument ID:	A2HP14F
Prep Method:	3510C	Prep Batch:	240-23759	Lab File ID:	P14F0000020.D
Dilution:	1.0			Initial Weight/Volume:	1030 mL
Analysis Date:	11/18/2011 1727			Final Weight/Volume:	1.00 mL
Prep Date:	11/17/2011 1151			Injection Volume:	1 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
WI Diesel Range Organics (C10-C28)	0.28	B	0.016	0.097

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **AMW-19**

Lab Sample ID: 240-5928-1 Date Sampled: 11/11/2011 1145
Client Matrix: Water Date Received: 11/15/2011 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-24269	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-23930	Lab File ID:	I61121A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/21/2011 2306			Final Weight/Volume:	50 mL
Prep Date:	11/18/2011 0937				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	240	B	0.67	200
Aluminum	ND		97	200
Cadmium	ND		0.66	5.0
Chromium	ND		2.2	10
Silver	ND		2.2	10
Arsenic	4.7	J B	3.2	10
Beryllium	0.84	J B	0.46	5.0
Lead	ND		1.9	3.0
Calcium	150000	B	130	5000
Selenium	ND		4.1	5.0
Cobalt	4.9	J	1.7	7.0
Copper	ND		4.5	25
Iron	170		81	100
Magnesium	41000	B	34	5000
Manganese	2800	B	0.41	15
Sodium	55000		590	5000
Nickel	3.4	J	3.2	40
Antimony	2.9	J	1.8	10
Vanadium	ND		0.64	7.0
Zinc	ND		5.0	50

Analysis Method:	6010B	Analysis Batch:	240-24269	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-23930	Lab File ID:	I61121A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/22/2011 0529			Final Weight/Volume:	50 mL
Prep Date:	11/18/2011 0937				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Potassium	4300	J B	72	5000
Thallium	ND		4.7	10

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-24219	Instrument ID:	H1
Prep Method:	7470A	Prep Batch:	240-23739	Lab File ID:	HG11121A.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	11/21/2011 1307			Final Weight/Volume:	100 mL
Prep Date:	11/17/2011 1340				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	ND		0.12	0.20

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **AMW-20**

Lab Sample ID: 240-5928-2 Date Sampled: 11/11/2011 1230
Client Matrix: Water Date Received: 11/15/2011 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-24269	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-23930	Lab File ID:	I61121A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/21/2011 2343			Final Weight/Volume:	50 mL
Prep Date:	11/18/2011 0937				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	200	B	0.67	200
Aluminum	ND		97	200
Cadmium	ND		0.66	5.0
Chromium	ND		2.2	10
Silver	ND		2.2	10
Arsenic	4.3	J B	3.2	10
Beryllium	0.79	J B	0.46	5.0
Lead	ND		1.9	3.0
Calcium	180000	B	130	5000
Selenium	ND		4.1	5.0
Cobalt	5.3	J	1.7	7.0
Copper	ND		4.5	25
Iron	ND		81	100
Magnesium	49000	B	34	5000
Manganese	1800	B	0.41	15
Sodium	66000		590	5000
Nickel	6.9	J	3.2	40
Antimony	3.3	J	1.8	10
Vanadium	0.64	J	0.64	7.0
Zinc	ND		5.0	50

Analysis Method:	6010B	Analysis Batch:	240-24269	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-23930	Lab File ID:	I61121A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/22/2011 0553			Final Weight/Volume:	50 mL
Prep Date:	11/18/2011 0937				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Potassium	3500	J B	72	5000
Thallium	ND		4.7	10

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-24219	Instrument ID:	H1
Prep Method:	7470A	Prep Batch:	240-23739	Lab File ID:	HG11121A.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	11/21/2011 1314			Final Weight/Volume:	100 mL
Prep Date:	11/17/2011 1340				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	ND		0.12	0.20

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Client Sample ID: **DUP-01**

Lab Sample ID: 240-5928-3FD Date Sampled: 11/11/2011 0000
Client Matrix: Water Date Received: 11/15/2011 0900

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-24269	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-23930	Lab File ID:	I61121A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/21/2011 2349			Final Weight/Volume:	50 mL
Prep Date:	11/18/2011 0937				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	200	B	0.67	200
Aluminum	ND		97	200
Cadmium	ND		0.66	5.0
Chromium	ND		2.2	10
Silver	ND		2.2	10
Arsenic	4.3	J B	3.2	10
Beryllium	0.80	J B	0.46	5.0
Lead	ND		1.9	3.0
Calcium	190000	B	130	5000
Selenium	ND		4.1	5.0
Cobalt	9.9		1.7	7.0
Copper	ND		4.5	25
Iron	ND		81	100
Magnesium	51000	B	34	5000
Manganese	1900	B	0.41	15
Sodium	69000		590	5000
Nickel	7.6	J	3.2	40
Antimony	ND		1.8	10
Vanadium	ND		0.64	7.0
Zinc	ND		5.0	50

Analysis Method:	6010B	Analysis Batch:	240-24269	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-23930	Lab File ID:	I61121A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	11/22/2011 0559			Final Weight/Volume:	50 mL
Prep Date:	11/18/2011 0937				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Potassium	3600	J B	72	5000
Thallium	ND		4.7	10

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-24219	Instrument ID:	H1
Prep Method:	7470A	Prep Batch:	240-23739	Lab File ID:	HG11121A.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	11/21/2011 1315			Final Weight/Volume:	100 mL
Prep Date:	11/17/2011 1340				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	ND		0.12	0.20

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Lab Section	Qualifier	Description
GC/MS VOA		
	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.
GC/MS Semi VOA		
	F	MS or MSD 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.
	F	RPD of the MS and MSD exceeds the control limits
GC Semi VOA		
	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.
Metals		
	B	Compound was found in the blank and sample.
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-23941					
LCS 240-23941/4	Lab Control Sample	T	Water	8260B	
MB 240-23941/5	Method Blank	T	Water	8260B	
240-5792-H-14 MS	Matrix Spike	T	Water	8260B	
240-5792-E-14 MSD	Matrix Spike Duplicate	T	Water	8260B	
240-5928-2	AMW-20	T	Water	8260B	
240-5928-3FD	DUP-01	T	Water	8260B	
Analysis Batch:240-24524					
LCS 240-24524/4	Lab Control Sample	T	Water	8260B	
MB 240-24524/5	Method Blank	T	Water	8260B	
240-5928-1	AMW-19	T	Water	8260B	
240-5928-1MS	Matrix Spike	T	Water	8260B	
240-5928-1MSD	Matrix Spike Duplicate	T	Water	8260B	
240-5928-4TB	TRIP BLANK	T	Water	8260B	

Report Basis
T = Total

GC/MS Semi VOA					
Prep Batch: 240-23673					
LCS 240-23673/22-A	Lab Control Sample	T	Water	3520C	
MB 240-23673/21-A	Method Blank	T	Water	3520C	
240-5928-1	AMW-19	T	Water	3520C	
240-5928-1MS	Matrix Spike	T	Water	3520C	
240-5928-1MSD	Matrix Spike Duplicate	T	Water	3520C	
240-5928-2	AMW-20	T	Water	3520C	
240-5928-3FD	DUP-01	T	Water	3520C	
Analysis Batch:240-24168					
240-5928-1	AMW-19	T	Water	8270C	240-23673
240-5928-1MS	Matrix Spike	T	Water	8270C	240-23673
240-5928-1MSD	Matrix Spike Duplicate	T	Water	8270C	240-23673
240-5928-2	AMW-20	T	Water	8270C	240-23673
240-5928-3FD	DUP-01	T	Water	8270C	240-23673
Analysis Batch:240-24295					
LCS 240-23673/22-A	Lab Control Sample	T	Water	8270C	240-23673
MB 240-23673/21-A	Method Blank	T	Water	8270C	240-23673

Report Basis
T = Total

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Analysis Batch:240-23696					
LCS 240-23696/9	Lab Control Sample	T	Water	WI-GRO	
LCSD 240-23696/23	Lab Control Sample Duplicate	T	Water	WI-GRO	
MB 240-23696/8	Method Blank	T	Water	WI-GRO	
240-5928-1	AMW-19	T	Water	WI-GRO	
240-5928-1MS	Matrix Spike	T	Water	WI-GRO	
240-5928-1MSD	Matrix Spike Duplicate	T	Water	WI-GRO	
240-5928-2	AMW-20	T	Water	WI-GRO	
240-5928-3FD	DUP-01	T	Water	WI-GRO	

Report Basis
T = Total

GC Semi VOA					
Prep Batch: 240-23759					
LCS 240-23759/2-A	Lab Control Sample	T	Water	3510C	
LCSD 240-23759/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 240-23759/1-A	Method Blank	T	Water	3510C	
240-5928-1	AMW-19	T	Water	3510C	
240-5928-1MS	Matrix Spike	T	Water	3510C	
240-5928-1MSD	Matrix Spike Duplicate	T	Water	3510C	
240-5928-2	AMW-20	T	Water	3510C	
240-5928-3FD	DUP-01	T	Water	3510C	
Analysis Batch:240-23922					
LCS 240-23759/2-A	Lab Control Sample	T	Water	WI-DRO	240-23759
MB 240-23759/1-A	Method Blank	T	Water	WI-DRO	240-23759
240-5928-1	AMW-19	T	Water	WI-DRO	240-23759
240-5928-1MS	Matrix Spike	T	Water	WI-DRO	240-23759
240-5928-1MSD	Matrix Spike Duplicate	T	Water	WI-DRO	240-23759
240-5928-2	AMW-20	T	Water	WI-DRO	240-23759
240-5928-3FD	DUP-01	T	Water	WI-DRO	240-23759
Analysis Batch:240-24134					
LCSD 240-23759/3-A	Lab Control Sample Duplicate	T	Water	WI-DRO	240-23759

Report Basis
T = Total

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 240-23739					
LCS 240-23739/2-A	Lab Control Sample	T	Water	7470A	
MB 240-23739/1-A	Method Blank	T	Water	7470A	
240-5928-1	AMW-19	D	Water	7470A	
240-5928-1MS	Matrix Spike	D	Water	7470A	
240-5928-1MSD	Matrix Spike Duplicate	D	Water	7470A	
240-5928-2	AMW-20	D	Water	7470A	
240-5928-3FD	DUP-01	D	Water	7470A	
Prep Batch: 240-23930					
LCS 240-23930/2-A	Lab Control Sample	R	Water	3005A	
MB 240-23930/1-A	Method Blank	R	Water	3005A	
240-5928-1	AMW-19	D	Water	3005A	
240-5928-1MS	Matrix Spike	D	Water	3005A	
240-5928-1MSD	Matrix Spike Duplicate	D	Water	3005A	
240-5928-2	AMW-20	D	Water	3005A	
240-5928-3FD	DUP-01	D	Water	3005A	
Analysis Batch:240-24219					
LCS 240-23739/2-A	Lab Control Sample	T	Water	7470A	240-23739
MB 240-23739/1-A	Method Blank	T	Water	7470A	240-23739
240-5928-1	AMW-19	D	Water	7470A	240-23739
240-5928-1MS	Matrix Spike	D	Water	7470A	240-23739
240-5928-1MSD	Matrix Spike Duplicate	D	Water	7470A	240-23739
240-5928-2	AMW-20	D	Water	7470A	240-23739
240-5928-3FD	DUP-01	D	Water	7470A	240-23739
Analysis Batch:240-24269					
LCS 240-23930/2-A	Lab Control Sample	R	Water	6010B	240-23930
MB 240-23930/1-A	Method Blank	R	Water	6010B	240-23930
240-5928-1	AMW-19	D	Water	6010B	240-23930
240-5928-1MS	Matrix Spike	D	Water	6010B	240-23930
240-5928-1MSD	Matrix Spike Duplicate	D	Water	6010B	240-23930
240-5928-2	AMW-20	D	Water	6010B	240-23930
240-5928-3FD	DUP-01	D	Water	6010B	240-23930

Report Basis

D = Dissolved

R = Total Recoverable

T = Total

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	TOL %Rec	DBFM %Rec
240-5928-1	AMW-19	101	88	100	104
240-5928-2	AMW-20	87	101	99	91
240-5928-3	DUP-01	88	96	98	92
240-5928-4	TRIP BLANK	100	88	102	102
MB 240-23941/5		87	91	98	92
MB 240-24524/5		100	89	102	100
LCS 240-23941/4		87	104	101	98
LCS 240-24524/4		101	101	105	100
240-5928-1 MS	AMW-19 MS	104	100	108	102
240-5792-H-14 MS		88	105	100	100
240-5928-1 MSD	AMW-19 MSD	102	102	106	98
240-5792-E-14 MSD		93	109	99	97

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
BFB = 4-Bromofluorobenzene (Surr)	66-117
TOL = Toluene-d8 (Surr)	74-115
DBFM = Dibromofluoromethane (Surr)	75-121

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Surrogate Recovery Report

8270C Semivolatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	TBP %Rec	NBZ %Rec	PHL %Rec	TPH %Rec
240-5928-1	AMW-19	48	56	54	57	59	37
240-5928-2	AMW-20	57	65	63	69	67	64
240-5928-3	DUP-01	52	58	53	60	58	52
MB 240-23673/21-A		70	72	66	80	75	87
LCS 240-23673/22-A		77	81	78	90	89	86
240-5928-1 MS	AMW-19 MS	66	71	67	74	75	39
240-5928-1 MSD	AMW-19 MSD	65	70	67	73	74	45

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl (Surr)	28-110
2FP = 2-Fluorophenol (Surr)	10-110
TBP = 2,4,6-Tribromophenol (Surr)	22-120
NBZ = Nitrobenzene-d5 (Surr)	27-111
PHL = Phenol-d5 (Surr)	10-110
TPH = Terphenyl-d14 (Surr)	37-119

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Method Blank - Batch: 240-23941

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 240-23941/5	Analysis Batch:	240-23941	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1222.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/18/2011 1143	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/18/2011 1143				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.23	1.0
1,1,1-Trichloroethane	ND		0.22	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.28	1.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.15	1.0
1,1-Dichloroethene	ND		0.19	1.0
1,1-Dichloropropene	ND		0.13	1.0
1,2,3-Trichlorobenzene	ND		0.17	1.0
1,2,3-Trichloropropane	ND		0.43	1.0
1,2,4-Trichlorobenzene	ND		0.15	1.0
1,2,4-Trimethylbenzene	ND		0.12	1.0
1,2-Dibromo-3-Chloropropane	ND		0.67	2.0
1,2-Dichlorobenzene	ND		0.13	1.0
1,2-Dichloroethane	ND		0.22	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,3,5-Trimethylbenzene	ND		0.096	1.0
1,3-Dichlorobenzene	ND		0.14	1.0
1,3-Dichloropropane	ND		0.16	1.0
1,4-Dichlorobenzene	ND		0.13	1.0
Allyl chloride	ND		0.35	2.0
2,2-Dichloropropane	ND		0.13	1.0
2-Chlorotoluene	ND		0.11	1.0
2-Hexanone	ND		0.41	10
Bromobenzene	ND		0.13	1.0
Bromochloromethane	ND		0.29	1.0
4-Chlorotoluene	ND		0.18	1.0
p-Isopropyltoluene	ND		0.12	1.0
Acetone	ND		1.1	10
Benzene	ND		0.13	1.0
Bromoform	ND		0.64	1.0
Bromomethane	ND		0.41	1.0
Carbon disulfide	ND		0.13	1.0
Carbon tetrachloride	ND		0.13	1.0
Chlorobenzene	ND		0.15	1.0
Chloroethane	ND		0.29	1.0
Chloroform	ND		0.16	1.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.17	1.0
cis-1,3-Dichloropropene	ND		0.14	1.0
Cyclohexane	ND		0.12	1.0
Hexachlorobutadiene	ND		0.30	1.0
Dibromomethane	ND		0.28	1.0
Bromodichloromethane	ND		0.15	1.0
Dichlorodifluoromethane	ND		0.31	1.0

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Method Blank - Batch: 240-23941

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 240-23941/5	Analysis Batch:	240-23941	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1222.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/18/2011 1143	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/18/2011 1143				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Dichlorofluoromethane	ND		0.42	1.0
Ethyl ether	ND		0.31	1.0
Ethylbenzene	ND		0.17	1.0
1,2-Dibromoethane	ND		0.24	1.0
Naphthalene	ND		0.24	1.0
m-Xylene & p-Xylene	ND		0.24	2.0
n-Butylbenzene	ND		0.12	1.0
Isopropylbenzene	ND		0.13	1.0
Methyl acetate	ND		0.38	10
N-Propylbenzene	ND		0.14	1.0
2-Butanone (MEK)	ND		0.57	10
4-Methyl-2-pentanone (MIBK)	ND		0.32	5.0
sec-Butylbenzene	ND		0.13	1.0
Methyl tert butyl ether	ND		0.17	2.0
Methylene Chloride	ND		0.33	1.0
o-Xylene	ND		0.14	1.0
Styrene	ND		0.11	1.0
tert-Butylbenzene	ND		0.13	1.0
Tetrachloroethene	ND		0.29	1.0
Tetrahydrofuran	ND		0.42	5.0
Toluene	ND		0.13	1.0
trans-1,2-Dichloroethene	ND		0.19	1.0
trans-1,3-Dichloropropene	ND		0.19	1.0
Trichloroethene	ND		0.17	1.0
Trichlorofluoromethane	ND		0.21	1.0
Vinyl chloride	ND		0.22	1.0
Methylcyclohexane	ND		0.13	1.0
Chlorodibromomethane	ND		0.18	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87	63 - 129
4-Bromofluorobenzene (Surr)	91	66 - 117
Toluene-d8 (Surr)	98	74 - 115
Dibromofluoromethane (Surr)	92	75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Lab Control Sample - Batch: 240-23941

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 240-23941/4	Analysis Batch:	240-23941	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1221.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/18/2011 1121	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/18/2011 1121				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	10.0	9.02	90	72 - 116	
1,1,1-Trichloroethane	10.0	10.2	102	74 - 118	
1,1,2,2-Tetrachloroethane	10.0	9.40	94	68 - 118	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.3	123	74 - 151	
1,1,2-Trichloroethane	10.0	8.90	89	80 - 112	
1,1-Dichloroethane	10.0	9.15	92	82 - 115	
1,1-Dichloroethene	10.0	10.7	107	78 - 131	
1,1-Dichloropropene	10.0	9.45	95	83 - 114	
1,2,3-Trichlorobenzene	10.0	9.12	91	54 - 126	
1,2,3-Trichloropropane	10.0	9.57	96	73 - 129	
1,2,4-Trichlorobenzene	10.0	8.22	82	48 - 135	
1,2,4-Trimethylbenzene	10.0	8.85	89	76 - 120	
1,2-Dibromo-3-Chloropropane	10.0	9.99	100	42 - 136	
1,2-Dichlorobenzene	10.0	9.11	91	81 - 110	
1,2-Dichloroethane	10.0	8.54	85	71 - 127	
1,2-Dichloropropane	10.0	9.23	92	81 - 115	
1,3,5-Trimethylbenzene	10.0	8.73	87	72 - 118	
1,3-Dichlorobenzene	10.0	8.89	89	80 - 110	
1,3-Dichloropropane	10.0	8.84	88	79 - 116	
1,4-Dichlorobenzene	10.0	8.65	87	82 - 110	
2,2-Dichloropropane	10.0	10.0	100	50 - 129	
2-Chlorotoluene	10.0	8.86	89	76 - 116	
2-Hexanone	20.0	18.3	92	55 - 133	
Bromobenzene	10.0	8.87	89	76 - 115	
Bromochloromethane	10.0	8.69	87	77 - 120	
4-Chlorotoluene	10.0	8.73	87	77 - 115	
p-Isopropyltoluene	10.0	9.18	92	74 - 120	
Acetone	20.0	19.2	96	43 - 136	
Benzene	10.0	8.96	90	83 - 112	
Bromoform	10.0	7.21	72	40 - 131	
Bromomethane	10.0	8.84	88	11 - 185	
Carbon disulfide	10.0	9.85	99	62 - 142	
Carbon tetrachloride	10.0	9.57	96	66 - 128	
Chlorobenzene	10.0	8.68	87	85 - 110	
Chloroethane	10.0	9.01	90	25 - 153	
Chloroform	10.0	9.11	91	79 - 117	
Chloromethane	10.0	7.86	79	44 - 126	
cis-1,2-Dichloroethene	10.0	8.94	89	80 - 113	
cis-1,3-Dichloropropene	10.0	7.27	73	61 - 115	
Cyclohexane	10.0	10.8	108	54 - 121	
Hexachlorobutadiene	10.0	9.19	92	36 - 134	

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Lab Control Sample - Batch: 240-23941

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 240-23941/4	Analysis Batch:	240-23941	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1221.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/18/2011 1121	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/18/2011 1121				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dibromomethane	10.0	9.06	91	81 - 120	
Bromodichloromethane	10.0	8.68	87	72 - 121	
Dichlorodifluoromethane	10.0	5.63	56	19 - 129	
Ethyl ether	10.0	11.4	114	53 - 135	
Ethylbenzene	10.0	8.80	88	83 - 112	
1,2-Dibromoethane	10.0	9.09	91	79 - 113	
Naphthalene	10.0	8.94	89	32 - 141	
m-Xylene & p-Xylene	20.0	17.4	87	83 - 113	
n-Butylbenzene	10.0	9.16	92	66 - 125	
Isopropylbenzene	10.0	8.80	88	75 - 114	
Methyl acetate	10.0	9.02	90	58 - 131	J
N-Propylbenzene	10.0	9.32	93	74 - 121	
2-Butanone (MEK)	20.0	18.3	92	60 - 126	
4-Methyl-2-pentanone (MIBK)	20.0	18.2	91	63 - 128	
sec-Butylbenzene	10.0	8.64	86	70 - 117	
Methyl tert butyl ether	10.0	8.91	89	52 - 144	
Methylene Chloride	10.0	9.92	99	66 - 131	
o-Xylene	10.0	8.81	88	83 - 113	
Styrene	10.0	8.74	87	79 - 114	
tert-Butylbenzene	10.0	8.56	86	71 - 115	
Tetrachloroethene	10.0	9.08	91	79 - 114	
Tetrahydrofuran	10.0	8.89	89	23 - 143	
Toluene	10.0	8.82	88	84 - 111	
trans-1,2-Dichloroethene	10.0	10.1	101	83 - 117	
trans-1,3-Dichloropropene	10.0	7.48	75	58 - 117	
Trichloroethene	10.0	8.86	89	76 - 117	
Trichlorofluoromethane	10.0	9.50	95	49 - 157	
Vinyl chloride	10.0	8.31	83	53 - 127	
Methylcyclohexane	10.0	11.2	112	56 - 127	
Chlorodibromomethane	10.0	7.57	76	64 - 119	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87	63 - 129
4-Bromofluorobenzene (Surr)	104	66 - 117
Toluene-d8 (Surr)	101	74 - 115
Dibromofluoromethane (Surr)	98	75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-23941

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	240-5792-H-14 MS	Analysis Batch:	240-23941	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1232.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/18/2011 1528			Final Weight/Volume:	5 mL
Prep Date:	11/18/2011 1528				
Leach Date:	N/A				

MSD Lab Sample ID:	240-5792-E-14 MSD	Analysis Batch:	240-23941	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1233.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/18/2011 1551			Final Weight/Volume:	5 mL
Prep Date:	11/18/2011 1551				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1,2-Tetrachloroethane	87	89	64 - 118	2	30		
1,1,1-Trichloroethane	99	99	68 - 121	0	30		
1,1,2,2-Tetrachloroethane	93	88	63 - 122	5	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	127	130	70 - 152	2	30		
1,1,2-Trichloroethane	86	86	75 - 115	0	30		
1,1-Dichloroethane	92	91	79 - 116	1	30		
1,1-Dichloroethene	106	106	74 - 135	0	30		
1,1-Dichloropropene	95	94	80 - 114	1	30		
1,2,3-Trichlorobenzene	85	84	45 - 129	1	30		
1,2,3-Trichloropropane	90	86	67 - 132	5	30		
1,2,4-Trichlorobenzene	78	76	38 - 138	3	30		
1,2,4-Trimethylbenzene	86	83	67 - 124	3	30		
1,2-Dibromo-3-Chloropropane	101	95	32 - 139	6	30		
1,2-Dichlorobenzene	90	86	75 - 111	4	30		
1,2-Dichloroethane	85	85	68 - 129	0	30		
1,2-Dichloropropane	89	89	78 - 115	0	30		
1,3,5-Trimethylbenzene	84	82	63 - 121	2	30		
1,3-Dichlorobenzene	85	85	73 - 110	0	30		
1,3-Dichloropropane	87	86	74 - 118	2	30		
1,4-Dichlorobenzene	85	82	75 - 110	3	30		
2,2-Dichloropropane	95	95	38 - 127	0	30		
2-Chlorotoluene	84	81	69 - 117	3	30		
2-Hexanone	97	95	47 - 139	2	30		
Bromobenzene	83	80	71 - 116	4	30		
Bromochloromethane	89	87	73 - 121	2	30		
4-Chlorotoluene	83	81	71 - 116	3	30		
p-Isopropyltoluene	92	89	64 - 122	3	30		
Acetone	89	90	33 - 145	1	30		
Benzene	89	87	72 - 121	1	30		
Bromoform	76	76	32 - 128	0	30		
Bromomethane	77	79	10 - 186	3	30		
Carbon disulfide	90	87	57 - 147	3	30		

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-23941

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	240-5792-H-14 MS	Analysis Batch:	240-23941	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1232.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/18/2011 1528			Final Weight/Volume:	5 mL
Prep Date:	11/18/2011 1528				
Leach Date:	N/A				

MSD Lab Sample ID:	240-5792-E-14 MSD	Analysis Batch:	240-23941	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1233.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/18/2011 1551			Final Weight/Volume:	5 mL
Prep Date:	11/18/2011 1551				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Carbon tetrachloride	94	93	59 - 129	1	30		
Chlorobenzene	85	84	80 - 110	0	30		
Chloroethane	82	79	21 - 165	4	30		
Chloroform	89	90	76 - 118	1	30		
Chloromethane	79	80	33 - 132	1	30		
cis-1,2-Dichloroethene	89	87	70 - 120	3	30		
cis-1,3-Dichloropropene	72	72	51 - 110	1	30		
Cyclohexane	111	110	49 - 123	1	30		
Hexachlorobutadiene	88	82	27 - 132	7	30		
Dibromomethane	89	88	77 - 121	0	30		
Bromodichloromethane	84	84	67 - 120	1	30		
Dichlorodifluoromethane	62	61	17 - 128	2	30		
Ethyl ether	111	108	63 - 136	3	30		
Ethylbenzene	87	88	75 - 116	1	30		
1,2-Dibromoethane	88	88	74 - 113	1	30		
Naphthalene	87	84	15 - 158	3	30		
m-Xylene & p-Xylene	85	84	75 - 117	1	30		
n-Butylbenzene	90	89	56 - 127	1	30		
Isopropylbenzene	87	88	68 - 116	1	30		
Methyl acetate	92	89	47 - 130	3	30	J	J
N-Propylbenzene	89	85	64 - 124	5	30		
2-Butanone (MEK)	95	95	54 - 129	1	30		
4-Methyl-2-pentanone (MIBK)	94	94	56 - 131	1	30		
sec-Butylbenzene	86	83	60 - 119	3	30		
Methyl tert butyl ether	89	90	46 - 144	1	30		
Methylene Chloride	88	87	63 - 128	1	30		
o-Xylene	84	85	76 - 116	1	30		
Styrene	85	84	71 - 117	1	30		
tert-Butylbenzene	86	83	61 - 119	4	30		
Tetrachloroethene	91	89	70 - 117	2	30		
Tetrahydrofuran	95	90	10 - 167	5	30		
Toluene	87	85	78 - 114	2	30		

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-23941

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	240-5792-H-14 MS	Analysis Batch:	240-23941	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1232.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/18/2011 1528			Final Weight/Volume:	5 mL
Prep Date:	11/18/2011 1528				
Leach Date:	N/A				

MSD Lab Sample ID:	240-5792-E-14 MSD	Analysis Batch:	240-23941	Instrument ID:	A3UX11
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXJ1233.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/18/2011 1551			Final Weight/Volume:	5 mL
Prep Date:	11/18/2011 1551				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
trans-1,2-Dichloroethene	100	99	80 - 119	1	30		
trans-1,3-Dichloropropene	75	76	46 - 116	1	30		
Trichloroethene	87	86	66 - 120	1	30		
Trichlorofluoromethane	93	93	46 - 157	0	30		
Vinyl chloride	82	81	49 - 130	1	30		
Methylcyclohexane	118	118	49 - 127	0	30		
Chlorodibromomethane	76	76	56 - 118	0	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88	93	63 - 129
4-Bromofluorobenzene (Surr)	105	109	66 - 117
Toluene-d8 (Surr)	100	99	74 - 115
Dibromofluoromethane (Surr)	100	97	75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Method Blank - Batch: 240-24524 **Method: 8260B**
Preparation: 5030B

Lab Sample ID:	MB 240-24524/5	Analysis Batch:	240-24524	Instrument ID:	A3UX10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXX7735.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2011 1218	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/23/2011 1218				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.23	1.0
1,1,1-Trichloroethane	ND		0.22	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.28	1.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.15	1.0
1,1-Dichloroethene	ND		0.19	1.0
1,1-Dichloropropene	ND		0.13	1.0
1,2,3-Trichlorobenzene	0.556	J	0.17	1.0
1,2,3-Trichloropropane	ND		0.43	1.0
1,2,4-Trichlorobenzene	ND		0.15	1.0
1,2,4-Trimethylbenzene	ND		0.12	1.0
1,2-Dibromo-3-Chloropropane	ND		0.67	2.0
1,2-Dichlorobenzene	ND		0.13	1.0
1,2-Dichloroethane	ND		0.22	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,3,5-Trimethylbenzene	ND		0.096	1.0
1,3-Dichlorobenzene	ND		0.14	1.0
1,3-Dichloropropane	ND		0.16	1.0
1,4-Dichlorobenzene	ND		0.13	1.0
Allyl chloride	ND		0.35	2.0
2,2-Dichloropropane	ND		0.13	1.0
2-Chlorotoluene	ND		0.11	1.0
2-Hexanone	ND		0.41	10
Bromobenzene	ND		0.13	1.0
Bromochloromethane	ND		0.29	1.0
4-Chlorotoluene	ND		0.18	1.0
p-Isopropyltoluene	ND		0.12	1.0
Acetone	ND		1.1	10
Benzene	ND		0.13	1.0
Bromoform	ND		0.64	1.0
Bromomethane	ND		0.41	1.0
Carbon disulfide	ND		0.13	1.0
Carbon tetrachloride	ND		0.13	1.0
Chlorobenzene	ND		0.15	1.0
Chloroethane	ND		0.29	1.0
Chloroform	ND		0.16	1.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.17	1.0
cis-1,3-Dichloropropene	ND		0.14	1.0
Cyclohexane	ND		0.12	1.0
Hexachlorobutadiene	ND		0.30	1.0
Dibromomethane	ND		0.28	1.0
Bromodichloromethane	ND		0.15	1.0
Dichlorodifluoromethane	ND		0.31	1.0

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Method Blank - Batch: 240-24524

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 240-24524/5	Analysis Batch:	240-24524	Instrument ID:	A3UX10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXX7735.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2011 1218	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/23/2011 1218				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Dichlorofluoromethane	ND		0.42	1.0
Ethyl ether	ND		0.31	1.0
Ethylbenzene	ND		0.17	1.0
1,2-Dibromoethane	ND		0.24	1.0
Naphthalene	0.462	J	0.24	1.0
m-Xylene & p-Xylene	ND		0.24	2.0
n-Butylbenzene	ND		0.12	1.0
Isopropylbenzene	ND		0.13	1.0
Methyl acetate	ND		0.38	10
N-Propylbenzene	ND		0.14	1.0
2-Butanone (MEK)	ND		0.57	10
4-Methyl-2-pentanone (MIBK)	ND		0.32	5.0
sec-Butylbenzene	ND		0.13	1.0
Methyl tert butyl ether	ND		0.17	2.0
Methylene Chloride	0.857	J	0.33	1.0
o-Xylene	ND		0.14	1.0
Styrene	ND		0.11	1.0
tert-Butylbenzene	ND		0.13	1.0
Tetrachloroethene	ND		0.29	1.0
Tetrahydrofuran	ND		0.42	5.0
Toluene	ND		0.13	1.0
trans-1,2-Dichloroethene	ND		0.19	1.0
trans-1,3-Dichloropropene	ND		0.19	1.0
Trichloroethene	ND		0.17	1.0
Trichlorofluoromethane	ND		0.21	1.0
Vinyl chloride	ND		0.22	1.0
Methylcyclohexane	ND		0.13	1.0
Chlorodibromomethane	ND		0.18	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	63 - 129
4-Bromofluorobenzene (Surr)	89	66 - 117
Toluene-d8 (Surr)	102	74 - 115
Dibromofluoromethane (Surr)	100	75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Lab Control Sample - Batch: 240-24524

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 240-24524/4	Analysis Batch:	240-24524	Instrument ID:	A3UX10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXX7734.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2011 1157	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/23/2011 1157				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	10.0	9.81	98	72 - 116	
1,1,1-Trichloroethane	10.0	8.51	85	74 - 118	
1,1,2,2-Tetrachloroethane	10.0	9.17	92	68 - 118	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	11.9	119	74 - 151	
1,1,2-Trichloroethane	10.0	9.63	96	80 - 112	
1,1-Dichloroethane	10.0	10.2	102	82 - 115	
1,1-Dichloroethene	10.0	10.3	103	78 - 131	
1,1-Dichloropropene	10.0	10.3	103	83 - 114	
1,2,3-Trichlorobenzene	10.0	8.87	89	54 - 126	
1,2,3-Trichloropropane	10.0	8.61	86	73 - 129	
1,2,4-Trichlorobenzene	10.0	9.08	91	48 - 135	
1,2,4-Trimethylbenzene	10.0	9.56	96	76 - 120	
1,2-Dibromo-3-Chloropropane	10.0	8.35	84	42 - 136	
1,2-Dichlorobenzene	10.0	9.44	94	81 - 110	
1,2-Dichloroethane	10.0	9.69	97	71 - 127	
1,2-Dichloropropane	10.0	9.89	99	81 - 115	
1,3,5-Trimethylbenzene	10.0	9.55	96	72 - 118	
1,3-Dichlorobenzene	10.0	9.28	93	80 - 110	
1,3-Dichloropropane	10.0	10.0	100	79 - 116	
1,4-Dichlorobenzene	10.0	9.22	92	82 - 110	
2,2-Dichloropropane	10.0	7.40	74	50 - 129	
2-Chlorotoluene	10.0	8.95	90	76 - 116	
2-Hexanone	20.0	17.0	85	55 - 133	
Bromobenzene	10.0	8.82	88	76 - 115	
Bromochloromethane	10.0	9.70	97	77 - 120	
4-Chlorotoluene	10.0	8.80	88	77 - 115	
p-Isopropyltoluene	10.0	9.94	99	74 - 120	
Acetone	20.0	15.0	75	43 - 136	
Benzene	10.0	10.1	101	83 - 112	
Bromoform	10.0	7.64	76	40 - 131	
Bromomethane	10.0	7.51	75	11 - 185	
Carbon disulfide	10.0	8.70	87	62 - 142	
Carbon tetrachloride	10.0	8.34	83	66 - 128	
Chlorobenzene	10.0	9.66	97	85 - 110	
Chloroethane	10.0	8.13	81	25 - 153	
Chloroform	10.0	10.4	104	79 - 117	
Chloromethane	10.0	8.91	89	44 - 126	
cis-1,2-Dichloroethene	10.0	9.42	94	80 - 113	
cis-1,3-Dichloropropene	10.0	7.76	78	61 - 115	
Cyclohexane	10.0	10.7	107	54 - 121	
Hexachlorobutadiene	10.0	11.3	113	36 - 134	

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Lab Control Sample - Batch: 240-24524

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 240-24524/4	Analysis Batch:	240-24524	Instrument ID:	A3UX10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXX7734.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2011 1157	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/23/2011 1157				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dibromomethane	10.0	9.26	93	81 - 120	
Bromodichloromethane	10.0	9.20	92	72 - 121	
Dichlorodifluoromethane	10.0	6.47	65	19 - 129	
Ethyl ether	10.0	10.2	102	53 - 135	
Ethylbenzene	10.0	9.66	97	83 - 112	
1,2-Dibromoethane	10.0	9.24	92	79 - 113	
Naphthalene	10.0	6.66	67	32 - 141	
m-Xylene & p-Xylene	20.0	19.2	96	83 - 113	
n-Butylbenzene	10.0	10.3	103	66 - 125	
Isopropylbenzene	10.0	9.82	98	75 - 114	
Methyl acetate	10.0	10.2	102	58 - 131	
N-Propylbenzene	10.0	9.31	93	74 - 121	
2-Butanone (MEK)	20.0	15.3	77	60 - 126	
4-Methyl-2-pentanone (MIBK)	20.0	16.4	82	63 - 128	
sec-Butylbenzene	10.0	9.66	97	70 - 117	
Methyl tert butyl ether	10.0	8.80	88	52 - 144	
Methylene Chloride	10.0	10.2	102	66 - 131	
o-Xylene	10.0	9.71	97	83 - 113	
Styrene	10.0	8.62	86	79 - 114	
tert-Butylbenzene	10.0	8.92	89	71 - 115	
Tetrachloroethene	10.0	10.4	104	79 - 114	
Tetrahydrofuran	10.0	8.54	85	23 - 143	
Toluene	10.0	10.2	102	84 - 111	
trans-1,2-Dichloroethene	10.0	9.98	100	83 - 117	
trans-1,3-Dichloropropene	10.0	8.57	86	58 - 117	
Trichloroethene	10.0	9.30	93	76 - 117	
Trichlorofluoromethane	10.0	7.83	78	49 - 157	
Vinyl chloride	10.0	7.82	78	53 - 127	
Methylcyclohexane	10.0	11.1	111	56 - 127	
Chlorodibromomethane	10.0	8.99	90	64 - 119	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101	63 - 129
4-Bromofluorobenzene (Surr)	101	66 - 117
Toluene-d8 (Surr)	105	74 - 115
Dibromofluoromethane (Surr)	100	75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-24524

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	240-5928-1	Analysis Batch:	240-24524	Instrument ID:	A3UX10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXX7740.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2011 1413			Final Weight/Volume:	5 mL
Prep Date:	11/23/2011 1413				
Leach Date:	N/A				

MSD Lab Sample ID:	240-5928-1	Analysis Batch:	240-24524	Instrument ID:	A3UX10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXX7741.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2011 1435			Final Weight/Volume:	5 mL
Prep Date:	11/23/2011 1435				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1,2-Tetrachloroethane	104	106	64 - 118	2	30		
1,1,1-Trichloroethane	88	89	68 - 121	1	30		
1,1,2,2-Tetrachloroethane	94	96	63 - 122	2	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	115	112	70 - 152	3	30		
1,1,2-Trichloroethane	104	107	75 - 115	3	30		
1,1-Dichloroethane	110	110	79 - 116	0	30		
1,1-Dichloroethene	104	108	74 - 135	4	30		
1,1-Dichloropropene	109	109	80 - 114	0	30		
1,2,3-Trichlorobenzene	85	92	45 - 129	8	30		
1,2,3-Trichloropropane	90	91	67 - 132	1	30		
1,2,4-Trichlorobenzene	87	94	38 - 138	8	30		
1,2,4-Trimethylbenzene	96	101	67 - 124	5	30		
1,2-Dibromo-3-Chloropropane	84	90	32 - 139	7	30		
1,2-Dichlorobenzene	97	100	75 - 111	3	30		
1,2-Dichloroethane	110	108	68 - 129	2	30		
1,2-Dichloropropane	107	106	78 - 115	1	30		
1,3,5-Trimethylbenzene	95	100	63 - 121	4	30		
1,3-Dichlorobenzene	95	99	73 - 110	4	30		
1,3-Dichloropropane	104	107	74 - 118	3	30		
1,4-Dichlorobenzene	93	97	75 - 110	3	30		
2,2-Dichloropropane	76	76	38 - 127	0	30		
2-Chlorotoluene	91	97	69 - 117	6	30		
2-Hexanone	90	95	47 - 139	6	30		
Bromobenzene	92	97	71 - 116	6	30		
Bromochloromethane	104	105	73 - 121	1	30		
4-Chlorotoluene	90	93	71 - 116	4	30		
p-Isopropyltoluene	96	102	64 - 122	6	30		
Acetone	104	101	33 - 145	3	30		
Benzene	108	109	72 - 121	1	30		
Bromoform	82	83	32 - 128	1	30		
Bromomethane	80	80	10 - 186	1	30		
Carbon disulfide	86	86	57 - 147	0	30		

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-24524

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	240-5928-1	Analysis Batch:	240-24524	Instrument ID:	A3UX10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXX7740.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2011 1413			Final Weight/Volume:	5 mL
Prep Date:	11/23/2011 1413				
Leach Date:	N/A				

MSD Lab Sample ID:	240-5928-1	Analysis Batch:	240-24524	Instrument ID:	A3UX10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXX7741.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2011 1435			Final Weight/Volume:	5 mL
Prep Date:	11/23/2011 1435				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Carbon tetrachloride	85	85	59 - 129	1	30		
Chlorobenzene	100	103	80 - 110	3	30		
Chloroethane	89	84	21 - 165	6	30		
Chloroform	112	112	76 - 118	0	30		
Chloromethane	101	98	33 - 132	3	30		
cis-1,2-Dichloroethene	101	103	70 - 120	2	30		
cis-1,3-Dichloropropene	80	82	51 - 110	2	30		
Cyclohexane	101	101	49 - 123	0	30		
Hexachlorobutadiene	84	94	27 - 132	12	30		
Dibromomethane	100	101	77 - 121	1	30		
Bromodichloromethane	98	99	67 - 120	2	30		
Dichlorodifluoromethane	63	64	17 - 128	1	30		
Ethyl ether	111	112	63 - 136	1	30		
Ethylbenzene	101	104	75 - 116	3	30		
1,2-Dibromoethane	96	98	74 - 113	2	30		
Naphthalene	63	75	15 - 158	18	30		
m-Xylene & p-Xylene	100	103	75 - 117	3	30		
n-Butylbenzene	95	102	56 - 127	7	30		
Isopropylbenzene	100	103	68 - 116	3	30		
Methyl acetate	101	100	47 - 130	1	30		J
N-Propylbenzene	93	96	64 - 124	3	30		
2-Butanone (MEK)	86	86	54 - 129	1	30		
4-Methyl-2-pentanone (MIBK)	89	93	56 - 131	4	30		
sec-Butylbenzene	90	95	60 - 119	5	30		
Methyl tert butyl ether	92	96	46 - 144	4	30		
Methylene Chloride	101	100	63 - 128	1	30		
o-Xylene	101	103	76 - 116	2	30		
Styrene	90	91	71 - 117	2	30		
tert-Butylbenzene	86	91	61 - 119	5	30		
Tetrachloroethene	109	111	70 - 117	2	30		
Tetrahydrofuran	92	92	10 - 167	0	30		
Toluene	110	112	78 - 114	2	30		

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-24524

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	240-5928-1	Analysis Batch:	240-24524	Instrument ID:	A3UX10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXX7740.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2011 1413			Final Weight/Volume:	5 mL
Prep Date:	11/23/2011 1413				
Leach Date:	N/A				

MSD Lab Sample ID:	240-5928-1	Analysis Batch:	240-24524	Instrument ID:	A3UX10
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXX7741.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/23/2011 1435			Final Weight/Volume:	5 mL
Prep Date:	11/23/2011 1435				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
trans-1,2-Dichloroethene	107	104	80 - 119	3	30		
trans-1,3-Dichloropropene	91	92	46 - 116	1	30		
Trichloroethene	98	99	66 - 120	1	30		
Trichlorofluoromethane	63	63	46 - 157	1	30		
Vinyl chloride	80	81	49 - 130	1	30		
Methylcyclohexane	99	100	49 - 127	0	30		
Chlorodibromomethane	97	99	56 - 118	1	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104	102	63 - 129
4-Bromofluorobenzene (Surr)	100	102	66 - 117
Toluene-d8 (Surr)	108	106	74 - 115
Dibromofluoromethane (Surr)	102	98	75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Method Blank - Batch: 240-23673

Method: 8270C
Preparation: 3520C

Lab Sample ID:	MB 240-23673/21-A	Analysis Batch:	240-24295	Instrument ID:	A4AG2
Client Matrix:	Water	Prep Batch:	240-23673	Lab File ID:	1122004.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/22/2011 1006	Units:	ug/L	Final Weight/Volume:	2.00 mL
Prep Date:	11/17/2011 0817			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	ND		0.10	10
Acenaphthylene	ND		0.10	10
Anthracene	ND		0.10	10
Benzo[a]anthracene	ND		0.10	0.20
Benzo[b]fluoranthene	ND		0.10	10
Benzo[k]fluoranthene	ND		0.10	10
Benzo[g,h,i]perylene	ND		0.10	10
Benzo[a]pyrene	ND		0.10	10
Chrysene	ND		0.10	10
2-Methylnaphthalene	ND		0.10	10
Dibenz(a,h)anthracene	ND		0.10	10
Fluoranthene	ND		0.10	10
Fluorene	ND		0.10	10
Indeno[1,2,3-cd]pyrene	ND		0.10	10
Naphthalene	ND		0.10	10
Phenanthrene	ND		0.10	10
Pyrene	ND		0.10	10

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	70	28 - 110
2-Fluorophenol (Surr)	72	10 - 110
2,4,6-Tribromophenol (Surr)	66	22 - 120
Nitrobenzene-d5 (Surr)	80	27 - 111
Phenol-d5 (Surr)	75	10 - 110
Terphenyl-d14 (Surr)	87	37 - 119

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Lab Control Sample - Batch: 240-23673

Method: 8270C
Preparation: 3520C

Lab Sample ID:	LCS 240-23673/22-A	Analysis Batch:	240-24295	Instrument ID:	A4AG2
Client Matrix:	Water	Prep Batch:	240-23673	Lab File ID:	1122005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/22/2011 1022	Units:	ug/L	Final Weight/Volume:	2.00 mL
Prep Date:	11/17/2011 0817			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	20.0	16.3	82	40 - 110	
Acenaphthylene	20.0	16.3	82	43 - 110	
Anthracene	20.0	16.5	82	54 - 114	
Benzo[a]anthracene	20.0	15.9	80	55 - 115	
Benzo[b]fluoranthene	20.0	15.6	78	43 - 122	
Benzo[k]fluoranthene	20.0	16.4	82	43 - 124	
Benzo[g,h,i]perylene	20.0	16.6	83	45 - 120	
Benzo[a]pyrene	20.0	13.9	70	43 - 116	
Chrysene	20.0	16.5	83	55 - 115	
2-Methylnaphthalene	20.0	16.5	82	35 - 110	
Dibenz(a,h)anthracene	20.0	16.0	80	46 - 122	
Fluoranthene	20.0	17.7	88	54 - 122	
Fluorene	20.0	16.8	84	47 - 112	
Indeno[1,2,3-cd]pyrene	20.0	15.6	78	46 - 121	
Naphthalene	20.0	16.9	85	31 - 110	
Phenanthrene	20.0	16.7	83	52 - 114	
Pyrene	20.0	15.9	80	55 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	77	28 - 110
2-Fluorophenol (Surr)	81	10 - 110
2,4,6-Tribromophenol (Surr)	78	22 - 120
Nitrobenzene-d5 (Surr)	90	27 - 111
Phenol-d5 (Surr)	89	10 - 110
Terphenyl-d14 (Surr)	86	37 - 119

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-23673

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	240-5928-1	Analysis Batch:	240-24168	Instrument ID:	A4AG2
Client Matrix:	Water	Prep Batch:	240-23673	Lab File ID:	1121026.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	480 mL
Analysis Date:	11/21/2011 1807			Final Weight/Volume:	2.00 mL
Prep Date:	11/17/2011 0817			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	240-5928-1	Analysis Batch:	240-24168	Instrument ID:	A4AG2
Client Matrix:	Water	Prep Batch:	240-23673	Lab File ID:	1121027.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	480 mL
Analysis Date:	11/21/2011 1824			Final Weight/Volume:	2.00 mL
Prep Date:	11/17/2011 0817			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	67	67	36 - 110	0	30		
Acenaphthylene	68	68	39 - 110	1	30		
Anthracene	62	65	46 - 110	5	30		
Benzo[a]anthracene	36	42	52 - 110	17	30	F	F
Benzo[b]fluoranthene	23	31	33 - 114	27	30	J F	J F
Benzo[k]fluoranthene	27	34	32 - 121	24	30	J F	J
Benzo[g,h,i]perylene	18	25	34 - 116	30	30	J F	J F
Benzo[a]pyrene	23	29	33 - 110	25	30	J F	J F
Chrysene	42	49	52 - 111	17	30	J F	J F
2-Methylnaphthalene	68	69	35 - 110	1	30		
Dibenz(a,h)anthracene	16	22	35 - 118	31	30	J F	J F
Fluoranthene	54	61	53 - 111	12	30		
Fluorene	68	69	43 - 110	1	30		
Indeno[1,2,3-cd]pyrene	17	22	36 - 116	30	30	J F	J F
Naphthalene	69	70	32 - 110	1	30		
Phenanthrene	64	66	47 - 110	3	30		
Pyrene	51	57	54 - 115	10	30	F	

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	66	65	28 - 110
2-Fluorophenol (Surr)	71	70	10 - 110
2,4,6-Tribromophenol (Surr)	67	67	22 - 120
Nitrobenzene-d5 (Surr)	74	73	27 - 111
Phenol-d5 (Surr)	75	74	10 - 110
Terphenyl-d14 (Surr)	39	45	37 - 119

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Method Blank - Batch: 240-23696

Method: WI-GRO
Preparation: 5030B

Lab Sample ID:	MB 240-23696/8	Analysis Batch:	240-23696	Instrument ID:	AFID
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	AF111708.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2011 1239	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/17/2011 1239			Injection Volume:	
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
WI Gasoline Range Organics (C6-C10)	ND		26	100

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 240-23696

Method: WI-GRO
Preparation: 5030B

LCS Lab Sample ID:	LCS 240-23696/9	Analysis Batch:	240-23696	Instrument ID:	AFID
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	AF111709.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2011 1310	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/17/2011 1310			Injection Volume:	
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 240-23696/23	Analysis Batch:	240-23696	Instrument ID:	AFID
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	AF111723.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2011 2025	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	11/17/2011 2025			Injection Volume:	
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
WI Gasoline Range Organics (C6-C10)	99	99	80 - 120	0	20		

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-23696

Method: WI-GRO
Preparation: 5030B

MS Lab Sample ID:	240-5928-1	Analysis Batch:	240-23696	Instrument ID:	AFID
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	AF111719.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2011 1822			Final Weight/Volume:	5 mL
Prep Date:	11/17/2011 1822			Injection Volume:	
Leach Date:	N/A				

MSD Lab Sample ID:	240-5928-1	Analysis Batch:	240-23696	Instrument ID:	AFID
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	AF111720.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	11/17/2011 1853			Final Weight/Volume:	5 mL
Prep Date:	11/17/2011 1853			Injection Volume:	
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
WI Gasoline Range Organics (C6-C10)	101	104	80 - 120	3	20		

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Method Blank - Batch: 240-23759 **Method: WI-DRO**
Preparation: 3510C

Lab Sample ID:	MB 240-23759/1-A	Analysis Batch:	240-23922	Instrument ID:	A2HP14F
Client Matrix:	Water	Prep Batch:	240-23759	Lab File ID:	P14F0000014.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/18/2011 1503	Units:	mg/L	Final Weight/Volume:	1.00 mL
Prep Date:	11/17/2011 1151			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
WI Diesel Range Organics (C10-C28)	0.0498	J	0.016	0.10

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 240-23759 **Method: WI-DRO**
Preparation: 3510C

LCS Lab Sample ID:	LCS 240-23759/2-A	Analysis Batch:	240-23922	Instrument ID:	A2HP14F
Client Matrix:	Water	Prep Batch:	240-23759	Lab File ID:	P14F0000015.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/18/2011 1527	Units:	mg/L	Final Weight/Volume:	1.00 mL
Prep Date:	11/17/2011 1151			Injection Volume:	1 uL
Leach Date:	N/A				
LCSD Lab Sample ID:	LCSD 240-23759/3-A	Analysis Batch:	240-24134	Instrument ID:	A2HP14F
Client Matrix:	Water	Prep Batch:	240-23759	Lab File ID:	P14F0000005.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	11/21/2011 1007	Units:	mg/L	Final Weight/Volume:	1.00 mL
Prep Date:	11/17/2011 1151			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
WI Diesel Range Organics (C10-C28)	98	111	75 - 115	12	20		

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-23759

Method: WI-DRO
Preparation: 3510C

MS Lab Sample ID:	240-5928-1	Analysis Batch:	240-23922	Instrument ID:	A2HP14F
Client Matrix:	Water	Prep Batch:	240-23759	Lab File ID:	P14F0000017.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	490 mL
Analysis Date:	11/18/2011 1615			Final Weight/Volume:	1.00 mL
Prep Date:	11/17/2011 1151			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	240-5928-1	Analysis Batch:	240-23922	Instrument ID:	A2HP14F
Client Matrix:	Water	Prep Batch:	240-23759	Lab File ID:	P14F0000018.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	490 mL
Analysis Date:	11/18/2011 1639			Final Weight/Volume:	1.00 mL
Prep Date:	11/17/2011 1151			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
WI Diesel Range Organics (C10-C28)	93	97	60 - 130	4	25		

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Method Blank - Batch: 240-23930

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 240-23930/1-A	Analysis Batch:	240-24269	Instrument ID:	I6
Client Matrix:	Water	Prep Batch:	240-23930	Lab File ID:	I61121A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/21/2011 2254	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	11/18/2011 0937				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Barium	1.11	J	0.67	200
Aluminum	ND		97	200
Cadmium	ND		0.66	5.0
Chromium	ND		2.2	10
Silver	ND		2.2	10
Arsenic	4.13	J	3.2	10
Beryllium	0.861	J	0.46	5.0
Lead	ND		1.9	3.0
Calcium	131	J	130	5000
Selenium	ND		4.1	5.0
Cobalt	ND		1.7	7.0
Copper	ND		4.5	25
Iron	ND		81	100
Magnesium	204	J	34	5000
Manganese	0.496	J	0.41	15
Sodium	ND		590	5000
Nickel	ND		3.2	40
Antimony	ND		1.8	10
Vanadium	ND		0.64	7.0
Zinc	11.0	J	5.0	50

Method Blank - Batch: 240-23930

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 240-23930/1-A	Analysis Batch:	240-24269	Instrument ID:	I6
Client Matrix:	Water	Prep Batch:	240-23930	Lab File ID:	I61121A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/22/2011 0517	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	11/18/2011 0937				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Potassium	215	J	72	5000
Thallium	ND		4.7	10

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Lab Control Sample - Batch: 240-23930

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 240-23930/2-A	Analysis Batch:	240-24269	Instrument ID:	I6
Client Matrix:	Water	Prep Batch:	240-23930	Lab File ID:	I61121A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/21/2011 2300	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	11/18/2011 0937				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	2100	105	80 - 120	
Aluminum	2000	1990	100	80 - 120	
Cadmium	50.0	45.9	92	80 - 120	
Chromium	200	194	97	80 - 120	
Silver	50.0	54.2	108	80 - 120	
Arsenic	2000	1890	95	80 - 120	
Beryllium	50.0	51.0	102	80 - 120	
Lead	500	477	95	80 - 120	
Calcium	50000	45400	91	80 - 120	
Selenium	2000	1840	92	80 - 120	
Cobalt	500	459	92	80 - 120	
Copper	250	227	91	80 - 120	
Iron	1000	1010	101	80 - 120	
Magnesium	50000	43100	86	80 - 120	
Manganese	500	479	96	80 - 120	
Sodium	50000	47400	95	80 - 120	
Nickel	500	509	102	80 - 120	
Antimony	500	479	96	80 - 120	
Vanadium	500	446	89	80 - 120	
Zinc	500	467	93	80 - 120	

Lab Control Sample - Batch: 240-23930

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 240-23930/2-A	Analysis Batch:	240-24269	Instrument ID:	I6
Client Matrix:	Water	Prep Batch:	240-23930	Lab File ID:	I61121A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/22/2011 0523	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	11/18/2011 0937				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Potassium	50000	48100	96	80 - 120	
Thallium	2000	1940	97	80 - 120	

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-23930

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	240-5928-1	Analysis Batch:	240-24269	Instrument ID:	I6
Client Matrix:	Water	Prep Batch:	240-23930	Lab File ID:	I61121A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/21/2011 2331			Final Weight/Volume:	50 mL
Prep Date:	11/18/2011 0937				
Leach Date:	N/A				

MSD Lab Sample ID:	240-5928-1	Analysis Batch:	240-24269	Instrument ID:	I6
Client Matrix:	Water	Prep Batch:	240-23930	Lab File ID:	I61121A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/21/2011 2337			Final Weight/Volume:	50 mL
Prep Date:	11/18/2011 0937				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Barium	115	115	75 - 125	0	20		
Aluminum	108	109	75 - 125	0	20		
Cadmium	98	99	75 - 125	1	20		
Chromium	105	104	75 - 125	1	20		
Silver	116	116	75 - 125	0	20		
Arsenic	104	105	75 - 125	1	20		
Beryllium	108	109	75 - 125	0	20		
Lead	101	102	75 - 125	1	20		
Calcium	104	103	75 - 125	0	20		
Selenium	99	100	75 - 125	1	20		
Cobalt	98	99	75 - 125	1	20		
Copper	98	98	75 - 125	1	20		
Iron	109	120	75 - 125	8	20		
Magnesium	97	98	75 - 125	1	20		
Manganese	100	97	75 - 125	0	20	4	4
Sodium	108	107	75 - 125	0	20		
Nickel	108	108	75 - 125	0	20		
Antimony	105	106	75 - 125	1	20		
Vanadium	97	97	75 - 125	1	20		
Zinc	100	100	75 - 125	0	20		

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-23930

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	240-5928-1	Analysis Batch:	240-24269	Instrument ID:	I6
Client Matrix:	Water	Prep Batch:	240-23930	Lab File ID:	I61121A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/22/2011 0541			Final Weight/Volume:	50 mL
Prep Date:	11/18/2011 0937				
Leach Date:	N/A				

MSD Lab Sample ID:	240-5928-1	Analysis Batch:	240-24269	Instrument ID:	I6
Client Matrix:	Water	Prep Batch:	240-23930	Lab File ID:	I61121A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	11/22/2011 0547			Final Weight/Volume:	50 mL
Prep Date:	11/18/2011 0937				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Potassium	107	106	75 - 125	1	20		
Thallium	106	105	75 - 125	1	20		

Client: ARCADIS U.S., Inc. Job Number: 240-5928-1

Method Blank - Batch: 240-23739

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 240-23739/1-A	Analysis Batch:	240-24219	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-23739	Lab File ID:	HG11121A.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/21/2011 1304	Units:	ug/L	Final Weight/Volume:	100 mL
Prep Date:	11/17/2011 1340				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.12	0.20

Lab Control Sample - Batch: 240-23739

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 240-23739/2-A	Analysis Batch:	240-24219	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-23739	Lab File ID:	HG11121A.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/21/2011 1306	Units:	ug/L	Final Weight/Volume:	100 mL
Prep Date:	11/17/2011 1340				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	4.25	85	81 - 123	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-23739

Method: 7470A
Preparation: 7470A
Dissolved

MS Lab Sample ID:	240-5928-1	Analysis Batch:	240-24219	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-23739	Lab File ID:	HG11121A.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/21/2011 1308			Final Weight/Volume:	100 mL
Prep Date:	11/17/2011 1340				
Leach Date:	N/A				

MSD Lab Sample ID:	240-5928-1	Analysis Batch:	240-24219	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-23739	Lab File ID:	HG11121A.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	11/21/2011 1310			Final Weight/Volume:	100 mL
Prep Date:	11/17/2011 1340				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	91	91	69 - 134	0	20		

Chain of Custody Record

Enovis #E200572

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: North Canton
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: ARCADIS	Client Project Manager: Rob Ellis	Site Contact: Mike LeFrancois	Lab Contact: DEnise Pohl	COC No: 032265
Address: 430 1st Ave.N., #720	Telephone: 248-994-2252	Telephone: 612-373-0256	Telephone: 330-966-9789	____ of ____ COCs
City/State/Zip: Minneapolis MN 55401	Email: rob.ellis@arcadis-us.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 612-339-9434		TAT if different from below ____		Walk-in client ☐
Project Name: Ford/TCAP	Method of Shipment/Carrier: Fedex	☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Lab pickup ☐
Project Number: DE000440.0001.00005	Shipping/Tracking No:			Lab sampling ☐
PO#				Job/SDG No:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C/ Grab=G	VOCs (8260)	PAHs (8270)	GRO (WI method)	DRO (WI method)	TAL metals, Dissolved (method 6010)	Temperature				Sample Specific Notes / Special Instructions:
AMW-19	11/11/11	1145		X					1	7			2		Y	G	3	2	2	2	1					A773/A392
AMW-19 MS	11/11/11	1145																								L391/A392
AMW-19 MSD	11/11/11	1145																								L391/A392
AMW-20	11/11/11	1230																								A773/A392
DUP-01	11/11/11	—																								A392
Temp Blank	—	—		X									X								3					A392/A773/L391
Trip Blank	—	—		X						2					—		2									

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal By Lab ☐ Archive For ____ Months

Special Instructions/QC Requirements & Comments:

1615

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Kelly Hoehn	ARCADIS	11/14/11 1230		TAmerica	11-14-11
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TAmerica	11-14-11 1700			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAL	11/15/11 900

TAL 0018- 1 (04/10)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** #5928
North Canton Facility

Client FORD TCAP ARCADIS Project _____ By: _____ (Signature)
Cooler Received on 11-15-11 Opened on 11-15-11
FedEx UPS DHL FAS Stetson Client Drop Off TestAmerica Courier Other _____
TestAmerica Cooler # _____ Multiple Coolers Foam Box Client Cooler Other _____

1. Were custody seals on the outside of the cooler(s)? Yes No Intact? Yes No NA
   If YES, Quantity 4 Quantity Unsalvageable _____
   Were custody seals on the outside of cooler(s) signed and dated? Yes No NA
   Were custody seals on the bottle(s)? Yes No
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes No
3. Did custody papers accompany the sample(s)? Yes No Relinquished by client? Yes No
4. Were the custody papers signed in the appropriate place? Yes No
5. Packing material used: Bubble Wrap Foam None Other _____
6. Cooler temperature upon receipt _____ °C See back of form for multiple coolers/temps BACK
   METHOD: IR Other _____
   COOLANT: Wet Ice Blue Ice Dry Ice Water None
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were sample(s) at the correct pH upon receipt? Yes No NA
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Were air bubbles >6 mm in any VOA vials? Yes No NA
12. Sufficient quantity received to perform indicated analyses? Yes No
13. Was a trip blank present in the cooler(s)? Yes No Were VOAs on the COC? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other
Concerning

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot# 110410-HNO_3; Sulfuric Acid Lot# 041911-H_2SO_4; Sodium Hydroxide Lot# 121809 -NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-*$(CH_3COO)_2ZN$/NaOH.* What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
19	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	11-15-11	CSL
20	2 2 2 2 2 2	1	1
DUP01	2 2 2 2 2 2		

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant
A392	2.6	IR	Ice
A773	2.3	↓	↓
L391	2.8		

Discrepancies Cont'd:

SOP: NC-SC-0005, Sample Receiving
N:\QA\COC\NARRATIVE\TestAmerica\Cooler Receipt TestAmerica\COOLER_TestAmerica_Rev 81_110911 djl.doc

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 240-5928-1

Login Number: 5928

List Source: TestAmerica North Canton

List Number: 1

Creator: Livengood, Chris

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6, 2.3, 2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the 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.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 240-7777-1

Job Description: Ford TCAP- E200572- DE000440.0002.00005

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

Attention: Mr. Rob Ellis

Approved for release.
Denise Pohl
Project Manager II
1/31/2012 12:00 PM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com
01/31/2012

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford TCAP- E200572- DE000440.0002.00005

Report Number: 240-7777-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 01/19/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 0.2, 0.8, 1.3 and 1.8C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples AMW-19 (240-7777-1), AMW-20 (240-7777-2), DUP-02 (240-7777-3) and TB-(20120117)-01 (240-7777-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 01/23/2012.

1,2,3-Trichlorobenzene was detected in method blank MB 240-31076/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

No other difficulties were encountered during the VOCs analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples AMW-19 (240-7777-1), AMW-20 (240-7777-2) and DUP-02 (240-7777-3) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 01/20/2012 and analyzed on 01/24/2012.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for AMW-19MSD (240-7777-1MSD). Refer to the QC report for details.

Several analytes failed the recovery criteria low for the MS/MSD of sample AMW-19MS (240-7777-1) in batch 240-31131.

Benzo[a]pyrene exceeded the rpd limit.

Refer to the QC report for details.

Several analytes failed the recovery criteria low for the MSD of sample AMW-19MSD (240-7777-1) in batch 240-31304. Benzo[a]pyrene exceeded the rpd limit.

Refer to the QC report for details.

No other difficulties were encountered during the SVOC analyses.

All other quality control parameters were within the acceptance limits.

WISCONSIN DRO

Samples AMW-19 (240-7777-1), AMW-20 (240-7777-2) and DUP-02 (240-7777-3) were analyzed for Wisconsin DRO in accordance with Wisconsin DNR Modified DRO. The samples were prepared on 01/20/2012 and analyzed on 01/24/2012.

WI Diesel Range Organics (C10-C28) exceeded the rpd limit for LCSD 240-30867/3-A. Refer to the QC report for details.

Method(s) WI-DRO: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 30867 exceeded control limits for the following analytes: diesel range organics C10 - C28.

No other difficulties were encountered during the WI-DRO analyses.

All other quality control parameters were within the acceptance limits.

WISCONSIN GRO

Samples AMW-19 (240-7777-1), AMW-20 (240-7777-2) and DUP-02 (240-7777-3) were analyzed for Wisconsin GRO in accordance with Wisconsin DNR Modified GRO. The samples were analyzed on 01/26/2012.

No difficulties were encountered during the WI-GRO analyses.

All quality control parameters were within the acceptance limits.

DISSOLVED METALS (ICP)

Samples AMW-19 (240-7777-1), AMW-20 (240-7777-2) and DUP-02 (240-7777-3) were analyzed for dissolved metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 01/23/2012 and analyzed on 01/25/2012.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

Several analytes were detected in method blank MB 240-31087/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

DISSOLVED MERCURY (CVAA)

Samples AMW-19 (240-7777-1), AMW-20 (240-7777-2) and DUP-02 (240-7777-3) were analyzed for dissolved mercury (CVAA) in accordance with EPA SW-846 Methods 7470A. The samples were prepared on 01/20/2012 and analyzed on 01/25/2012.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-7777-1	**AMW-19**					
Dissolved						
Barium		220	B	200	ug/L	6010B
Calcium		150000	B	5000	ug/L	6010B
Cobalt		3.1	J	7.0	ug/L	6010B
Potassium		3900	J B	5000	ug/L	6010B
Magnesium		41000	B	5000	ug/L	6010B
Manganese		1700	B	15	ug/L	6010B
Sodium		51000		5000	ug/L	6010B
Thallium		9.7	J	10	ug/L	6010B
240-7777-2	**AMW-20**					
Acetone		2.6	J	10	ug/L	8260B
WI Diesel Range Organics (C10-C28)		0.46	*	0.10	mg/L	WI-DRO
Dissolved						
Barium		160	J B	200	ug/L	6010B
Calcium		180000	B	5000	ug/L	6010B
Cobalt		3.3	J	7.0	ug/L	6010B
Iron		550		100	ug/L	6010B
Potassium		3300	J B	5000	ug/L	6010B
Magnesium		48000	B	5000	ug/L	6010B
Manganese		1700	B	15	ug/L	6010B
Sodium		58000		5000	ug/L	6010B
Nickel		4.5	J	40	ug/L	6010B
240-7777-3FD	**DUP-02**					
p-Isopropyltoluene		0.45	J	1.0	ug/L	8260B
Methylene Chloride		0.45	J	1.0	ug/L	8260B
WI Diesel Range Organics (C10-C28)		1.2	*	0.10	mg/L	WI-DRO
Dissolved						
Barium		160	J B	200	ug/L	6010B
Calcium		180000	B	5000	ug/L	6010B
Cobalt		6.4	J	7.0	ug/L	6010B
Iron		700		100	ug/L	6010B
Potassium		3300	J B	5000	ug/L	6010B
Magnesium		48000	B	5000	ug/L	6010B
Manganese		1700	B	15	ug/L	6010B
Sodium		58000		5000	ug/L	6010B
Nickel		4.8	J	40	ug/L	6010B
Thallium		5.9	J	10	ug/L	6010B

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
240-7777-4TB	**TB-(20120117)-01**					
Acetone		8.0	J	10	ug/L	8260B
Methylene Chloride		0.89	J	1.0	ug/L	8260B

METHOD SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Volatile Organic Compounds (GC/MS)	TAL NC	SW846 8260B	
Purge and Trap	TAL NC		SW846 5030B
Semivolatile Organic Compounds (GC/MS)	TAL NC	SW846 8270C	
Liquid-Liquid Extraction (Continuous)			SW846 3520C
Wisconsin - Gasoline Range Organics (GC)	TAL NC	WI-GRO WI-GRO	
Purge and Trap	TAL NC		SW846 5030B
Wisconsin - Diesel Range Organics (GC)	TAL NC	WI-DRO WI-DRO	
Liquid-Liquid Extraction (Separatory Funnel)			SW846 3510C
Metals (ICP)	TAL NC	SW846 6010B	
Preparation, Total Recoverable or Dissolved Metals			SW846 3005A
Sample Filtration, Field			FIELD_FLTRD
Mercury (CVAA)	TAL NC	SW846 7470A	
Preparation, Mercury			SW846 7470A
Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL NC = TestAmerica North Canton

Method References:

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

WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Method	Analyst	Analyst ID
SW846 8260B	Williams, Larry	LW
SW846 8270C	Hula, Tom	TH
WI-GRO WI-GRO	Bolgrin, Deborah	DB
WI-DRO WI-DRO	Van Doren, Carolyn	CV
SW846 6010B	Counts, Karen	KC
SW846 7470A	Sutherland, Aaron	AS

SAMPLE SUMMARY

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
240-7777-1	AMW-19	Water	01/17/2012 1225	01/19/2012 0930
240-7777-1MS	AMW-19	Water	01/17/2012 1225	01/19/2012 0930
240-7777-1MSD	AMW-19	Water	01/17/2012 1225	01/19/2012 0930
240-7777-2	AMW-20	Water	01/17/2012 1415	01/19/2012 0930
240-7777-3FD	DUP-02	Water	01/17/2012 0000	01/19/2012 0930
240-7777-4TB	TB-(20120117)-01	Water	01/17/2012 0000	01/19/2012 0930

SAMPLE RESULTS

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **AMW-19**

Lab Sample ID: 240-7777-1 Date Sampled: 01/17/2012 1225
Client Matrix: Water Date Received: 01/19/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-31076	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM3081.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	01/23/2012 1454			Final Weight/Volume:	5 mL
Prep Date:	01/23/2012 1454				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.23	1.0
1,1,1-Trichloroethane	ND		0.22	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.28	1.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.15	1.0
1,1-Dichloroethene	ND		0.19	1.0
1,1-Dichloropropene	ND		0.13	1.0
1,2,3-Trichlorobenzene	ND		0.17	1.0
1,2,3-Trichloropropane	ND		0.43	1.0
1,2,4-Trichlorobenzene	ND		0.15	1.0
1,2,4-Trimethylbenzene	ND		0.12	1.0
1,2-Dibromo-3-Chloropropane	ND		0.67	2.0
1,2-Dichlorobenzene	ND		0.13	1.0
1,2-Dichloroethane	ND		0.22	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,3,5-Trimethylbenzene	ND		0.096	1.0
1,3-Dichlorobenzene	ND		0.14	1.0
1,3-Dichloropropane	ND		0.16	1.0
1,4-Dichlorobenzene	ND		0.13	1.0
Allyl chloride	ND		0.35	2.0
2,2-Dichloropropane	ND		0.13	1.0
2-Chlorotoluene	ND		0.11	1.0
2-Hexanone	ND		0.41	10
Bromobenzene	ND		0.13	1.0
Bromochloromethane	ND		0.29	1.0
4-Chlorotoluene	ND		0.18	1.0
p-Isopropyltoluene	ND		0.12	1.0
Acetone	ND		1.1	10
Benzene	ND		0.13	1.0
Bromoform	ND		0.64	1.0
Bromomethane	ND		0.41	1.0
Carbon disulfide	ND		0.13	1.0
Carbon tetrachloride	ND		0.13	1.0
Chlorobenzene	ND		0.15	1.0
Chloroethane	ND		0.29	1.0
Chloroform	ND		0.16	1.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.17	1.0
cis-1,3-Dichloropropene	ND		0.14	1.0
Cyclohexane	ND		0.12	1.0
Hexachlorobutadiene	ND		0.30	1.0
Dibromomethane	ND		0.28	1.0
Bromodichloromethane	ND		0.15	1.0
Dichlorodifluoromethane	ND		0.31	1.0
Dichlorofluoromethane	ND		0.42	2.0

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **AMW-19**

Lab Sample ID: 240-7777-1 Date Sampled: 01/17/2012 1225
Client Matrix: Water Date Received: 01/19/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-31076	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM3081.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	01/23/2012 1454			Final Weight/Volume:	5 mL
Prep Date:	01/23/2012 1454				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethyl ether	ND		0.31	2.0
Ethylbenzene	ND		0.17	1.0
1,2-Dibromoethane	ND		0.24	1.0
Naphthalene	ND		0.24	1.0
m-Xylene & p-Xylene	ND		0.24	2.0
n-Butylbenzene	ND		0.12	1.0
Isopropylbenzene	ND		0.13	1.0
Methyl acetate	ND		0.38	10
N-Propylbenzene	ND		0.14	1.0
2-Butanone (MEK)	ND		0.57	10
4-Methyl-2-pentanone (MIBK)	ND		0.32	10
sec-Butylbenzene	ND		0.13	1.0
Methyl tert butyl ether	ND		0.17	5.0
Methylene Chloride	ND		0.33	1.0
o-Xylene	ND		0.14	1.0
Styrene	ND		0.11	1.0
tert-Butylbenzene	ND		0.13	1.0
Tetrachloroethene	ND		0.29	1.0
Tetrahydrofuran	ND		0.42	5.0
Toluene	ND		0.13	1.0
trans-1,2-Dichloroethene	ND		0.19	1.0
trans-1,3-Dichloropropene	ND		0.19	1.0
Trichloroethene	ND		0.17	1.0
Trichlorofluoromethane	ND		0.21	1.0
Vinyl chloride	ND		0.22	1.0
Methylcyclohexane	ND		0.13	1.0
Chlorodibromomethane	ND		0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91		63 - 129
4-Bromofluorobenzene (Surr)	88		66 - 117
Toluene-d8 (Surr)	90		74 - 115
Dibromofluoromethane (Surr)	91		75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **AMW-20**

Lab Sample ID: 240-7777-2 Date Sampled: 01/17/2012 1415
Client Matrix: Water Date Received: 01/19/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-31076	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM3082.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	01/23/2012 1516			Final Weight/Volume:	5 mL
Prep Date:	01/23/2012 1516				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.23	1.0
1,1,1-Trichloroethane	ND		0.22	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.28	1.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.15	1.0
1,1-Dichloroethene	ND		0.19	1.0
1,1-Dichloropropene	ND		0.13	1.0
1,2,3-Trichlorobenzene	ND		0.17	1.0
1,2,3-Trichloropropane	ND		0.43	1.0
1,2,4-Trichlorobenzene	ND		0.15	1.0
1,2,4-Trimethylbenzene	ND		0.12	1.0
1,2-Dibromo-3-Chloropropane	ND		0.67	2.0
1,2-Dichlorobenzene	ND		0.13	1.0
1,2-Dichloroethane	ND		0.22	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,3,5-Trimethylbenzene	ND		0.096	1.0
1,3-Dichlorobenzene	ND		0.14	1.0
1,3-Dichloropropane	ND		0.16	1.0
1,4-Dichlorobenzene	ND		0.13	1.0
Allyl chloride	ND		0.35	2.0
2,2-Dichloropropane	ND		0.13	1.0
2-Chlorotoluene	ND		0.11	1.0
2-Hexanone	ND		0.41	10
Bromobenzene	ND		0.13	1.0
Bromochloromethane	ND		0.29	1.0
4-Chlorotoluene	ND		0.18	1.0
p-Isopropyltoluene	ND		0.12	1.0
Acetone	2.6	J	1.1	10
Benzene	ND		0.13	1.0
Bromoform	ND		0.64	1.0
Bromomethane	ND		0.41	1.0
Carbon disulfide	ND		0.13	1.0
Carbon tetrachloride	ND		0.13	1.0
Chlorobenzene	ND		0.15	1.0
Chloroethane	ND		0.29	1.0
Chloroform	ND		0.16	1.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.17	1.0
cis-1,3-Dichloropropene	ND		0.14	1.0
Cyclohexane	ND		0.12	1.0
Hexachlorobutadiene	ND		0.30	1.0
Dibromomethane	ND		0.28	1.0
Bromodichloromethane	ND		0.15	1.0
Dichlorodifluoromethane	ND		0.31	1.0
Dichlorofluoromethane	ND		0.42	2.0

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **AMW-20**

Lab Sample ID: 240-7777-2 Date Sampled: 01/17/2012 1415
Client Matrix: Water Date Received: 01/19/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-31076	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM3082.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	01/23/2012 1516			Final Weight/Volume:	5 mL
Prep Date:	01/23/2012 1516				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethyl ether	ND		0.31	2.0
Ethylbenzene	ND		0.17	1.0
1,2-Dibromoethane	ND		0.24	1.0
Naphthalene	ND		0.24	1.0
m-Xylene & p-Xylene	ND		0.24	2.0
n-Butylbenzene	ND		0.12	1.0
Isopropylbenzene	ND		0.13	1.0
Methyl acetate	ND		0.38	10
N-Propylbenzene	ND		0.14	1.0
2-Butanone (MEK)	ND		0.57	10
4-Methyl-2-pentanone (MIBK)	ND		0.32	10
sec-Butylbenzene	ND		0.13	1.0
Methyl tert butyl ether	ND		0.17	5.0
Methylene Chloride	ND		0.33	1.0
o-Xylene	ND		0.14	1.0
Styrene	ND		0.11	1.0
tert-Butylbenzene	ND		0.13	1.0
Tetrachloroethene	ND		0.29	1.0
Tetrahydrofuran	ND		0.42	5.0
Toluene	ND		0.13	1.0
trans-1,2-Dichloroethene	ND		0.19	1.0
trans-1,3-Dichloropropene	ND		0.19	1.0
Trichloroethene	ND		0.17	1.0
Trichlorofluoromethane	ND		0.21	1.0
Vinyl chloride	ND		0.22	1.0
Methylcyclohexane	ND		0.13	1.0
Chlorodibromomethane	ND		0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		63 - 129
4-Bromofluorobenzene (Surr)	86		66 - 117
Toluene-d8 (Surr)	87		74 - 115
Dibromofluoromethane (Surr)	92		75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **DUP-02**

Lab Sample ID: 240-7777-3FD Date Sampled: 01/17/2012 0000
Client Matrix: Water Date Received: 01/19/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-31076	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM3083.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	01/23/2012 1539			Final Weight/Volume:	5 mL
Prep Date:	01/23/2012 1539				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.23	1.0
1,1,1-Trichloroethane	ND		0.22	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.28	1.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.15	1.0
1,1-Dichloroethene	ND		0.19	1.0
1,1-Dichloropropene	ND		0.13	1.0
1,2,3-Trichlorobenzene	ND		0.17	1.0
1,2,3-Trichloropropane	ND		0.43	1.0
1,2,4-Trichlorobenzene	ND		0.15	1.0
1,2,4-Trimethylbenzene	ND		0.12	1.0
1,2-Dibromo-3-Chloropropane	ND		0.67	2.0
1,2-Dichlorobenzene	ND		0.13	1.0
1,2-Dichloroethane	ND		0.22	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,3,5-Trimethylbenzene	ND		0.096	1.0
1,3-Dichlorobenzene	ND		0.14	1.0
1,3-Dichloropropane	ND		0.16	1.0
1,4-Dichlorobenzene	ND		0.13	1.0
Allyl chloride	ND		0.35	2.0
2,2-Dichloropropane	ND		0.13	1.0
2-Chlorotoluene	ND		0.11	1.0
2-Hexanone	ND		0.41	10
Bromobenzene	ND		0.13	1.0
Bromochloromethane	ND		0.29	1.0
4-Chlorotoluene	ND		0.18	1.0
p-Isopropyltoluene	0.45	J	0.12	1.0
Acetone	ND		1.1	10
Benzene	ND		0.13	1.0
Bromoform	ND		0.64	1.0
Bromomethane	ND		0.41	1.0
Carbon disulfide	ND		0.13	1.0
Carbon tetrachloride	ND		0.13	1.0
Chlorobenzene	ND		0.15	1.0
Chloroethane	ND		0.29	1.0
Chloroform	ND		0.16	1.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.17	1.0
cis-1,3-Dichloropropene	ND		0.14	1.0
Cyclohexane	ND		0.12	1.0
Hexachlorobutadiene	ND		0.30	1.0
Dibromomethane	ND		0.28	1.0
Bromodichloromethane	ND		0.15	1.0
Dichlorodifluoromethane	ND		0.31	1.0
Dichlorofluoromethane	ND		0.42	2.0

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **DUP-02**

Lab Sample ID: 240-7777-3FD Date Sampled: 01/17/2012 0000
Client Matrix: Water Date Received: 01/19/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-31076	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM3083.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	01/23/2012 1539			Final Weight/Volume:	5 mL
Prep Date:	01/23/2012 1539				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethyl ether	ND		0.31	2.0
Ethylbenzene	ND		0.17	1.0
1,2-Dibromoethane	ND		0.24	1.0
Naphthalene	ND		0.24	1.0
m-Xylene & p-Xylene	ND		0.24	2.0
n-Butylbenzene	ND		0.12	1.0
Isopropylbenzene	ND		0.13	1.0
Methyl acetate	ND		0.38	10
N-Propylbenzene	ND		0.14	1.0
2-Butanone (MEK)	ND		0.57	10
4-Methyl-2-pentanone (MIBK)	ND		0.32	10
sec-Butylbenzene	ND		0.13	1.0
Methyl tert butyl ether	ND		0.17	5.0
Methylene Chloride	0.45	J	0.33	1.0
o-Xylene	ND		0.14	1.0
Styrene	ND		0.11	1.0
tert-Butylbenzene	ND		0.13	1.0
Tetrachloroethene	ND		0.29	1.0
Tetrahydrofuran	ND		0.42	5.0
Toluene	ND		0.13	1.0
trans-1,2-Dichloroethene	ND		0.19	1.0
trans-1,3-Dichloropropene	ND		0.19	1.0
Trichloroethene	ND		0.17	1.0
Trichlorofluoromethane	ND		0.21	1.0
Vinyl chloride	ND		0.22	1.0
Methylcyclohexane	ND		0.13	1.0
Chlorodibromomethane	ND		0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92		63 - 129
4-Bromofluorobenzene (Surr)	87		66 - 117
Toluene-d8 (Surr)	88		74 - 115
Dibromofluoromethane (Surr)	92		75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **TB-(20120117)-01**

Lab Sample ID: 240-7777-4TB Date Sampled: 01/17/2012 0000
Client Matrix: Water Date Received: 01/19/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-31076	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM3084.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	01/23/2012 1602			Final Weight/Volume:	5 mL
Prep Date:	01/23/2012 1602				

Analyte	Result (ug/L)	Qualifier	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.23	1.0
1,1,1-Trichloroethane	ND		0.22	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.28	1.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.15	1.0
1,1-Dichloroethene	ND		0.19	1.0
1,1-Dichloropropene	ND		0.13	1.0
1,2,3-Trichlorobenzene	ND		0.17	1.0
1,2,3-Trichloropropane	ND		0.43	1.0
1,2,4-Trichlorobenzene	ND		0.15	1.0
1,2,4-Trimethylbenzene	ND		0.12	1.0
1,2-Dibromo-3-Chloropropane	ND		0.67	2.0
1,2-Dichlorobenzene	ND		0.13	1.0
1,2-Dichloroethane	ND		0.22	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,3,5-Trimethylbenzene	ND		0.096	1.0
1,3-Dichlorobenzene	ND		0.14	1.0
1,3-Dichloropropane	ND		0.16	1.0
1,4-Dichlorobenzene	ND		0.13	1.0
Allyl chloride	ND		0.35	2.0
2,2-Dichloropropane	ND		0.13	1.0
2-Chlorotoluene	ND		0.11	1.0
2-Hexanone	ND		0.41	10
Bromobenzene	ND		0.13	1.0
Bromochloromethane	ND		0.29	1.0
4-Chlorotoluene	ND		0.18	1.0
p-Isopropyltoluene	ND		0.12	1.0
Acetone	8.0	J	1.1	10
Benzene	ND		0.13	1.0
Bromoform	ND		0.64	1.0
Bromomethane	ND		0.41	1.0
Carbon disulfide	ND		0.13	1.0
Carbon tetrachloride	ND		0.13	1.0
Chlorobenzene	ND		0.15	1.0
Chloroethane	ND		0.29	1.0
Chloroform	ND		0.16	1.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.17	1.0
cis-1,3-Dichloropropene	ND		0.14	1.0
Cyclohexane	ND		0.12	1.0
Hexachlorobutadiene	ND		0.30	1.0
Dibromomethane	ND		0.28	1.0
Bromodichloromethane	ND		0.15	1.0
Dichlorodifluoromethane	ND		0.31	1.0
Dichlorofluoromethane	ND		0.42	1.0

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **TB-(20120117)-01**

Lab Sample ID: 240-7777-4TB Date Sampled: 01/17/2012 0000
Client Matrix: Water Date Received: 01/19/2012 0930

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	240-31076	Instrument ID:	A3UX16
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	UXM3084.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	01/23/2012 1602			Final Weight/Volume:	5 mL
Prep Date:	01/23/2012 1602				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Ethyl ether	ND		0.31	1.0
Ethylbenzene	ND		0.17	1.0
1,2-Dibromoethane	ND		0.24	1.0
Naphthalene	ND		0.24	1.0
m-Xylene & p-Xylene	ND		0.24	2.0
n-Butylbenzene	ND		0.12	1.0
Isopropylbenzene	ND		0.13	1.0
Methyl acetate	ND		0.38	10
N-Propylbenzene	ND		0.14	1.0
2-Butanone (MEK)	ND		0.57	10
4-Methyl-2-pentanone (MIBK)	ND		0.32	5.0
sec-Butylbenzene	ND		0.13	1.0
Methyl tert butyl ether	ND		0.17	2.0
Methylene Chloride	0.89	J	0.33	1.0
o-Xylene	ND		0.14	1.0
Styrene	ND		0.11	1.0
tert-Butylbenzene	ND		0.13	1.0
Tetrachloroethene	ND		0.29	1.0
Tetrahydrofuran	ND		0.42	5.0
Toluene	ND		0.13	1.0
trans-1,2-Dichloroethene	ND		0.19	1.0
trans-1,3-Dichloropropene	ND		0.19	1.0
Trichloroethene	ND		0.17	1.0
Trichlorofluoromethane	ND		0.21	1.0
Vinyl chloride	ND		0.22	1.0
Methylcyclohexane	ND		0.13	1.0
Chlorodibromomethane	ND		0.18	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	90		63 - 129
4-Bromofluorobenzene (Surr)	87		66 - 117
Toluene-d8 (Surr)	87		74 - 115
Dibromofluoromethane (Surr)	90		75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **AMW-19**

Lab Sample ID: 240-7777-1 Date Sampled: 01/17/2012 1225
Client Matrix: Water Date Received: 01/19/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	240-31131	Instrument ID:	A4AG2
Prep Method:	3520C	Prep Batch:	240-30848	Lab File ID:	0124020.D
Dilution:	1.0			Initial Weight/Volume:	920 mL
Analysis Date:	01/24/2012 1303			Final Weight/Volume:	2.00 mL
Prep Date:	01/20/2012 0737			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.11	11
Acenaphthylene	ND		0.11	11
Anthracene	ND		0.11	11
Benzo[a]anthracene	ND		0.11	0.22
Benzo[b]fluoranthene	ND		0.11	11
Benzo[k]fluoranthene	ND		0.11	11
Benzo[g,h,i]perylene	ND		0.11	11
Benzo[a]pyrene	ND		0.11	11
Chrysene	ND		0.11	11
2-Methylnaphthalene	ND		0.11	11
Dibenz(a,h)anthracene	ND		0.11	11
Fluoranthene	ND		0.11	11
Fluorene	ND		0.11	11
Indeno[1,2,3-cd]pyrene	ND		0.11	11
Naphthalene	ND		0.11	11
Phenanthrene	ND		0.11	11
Pyrene	ND		0.11	11

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	63		28 - 110
2-Fluorophenol (Surr)	69		10 - 110
2,4,6-Tribromophenol (Surr)	54		22 - 120
Nitrobenzene-d5 (Surr)	72		27 - 111
Phenol-d5 (Surr)	68		10 - 110
Terphenyl-d14 (Surr)	61		37 - 119

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **AMW-20**

Lab Sample ID: 240-7777-2 Date Sampled: 01/17/2012 1415
Client Matrix: Water Date Received: 01/19/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	240-31131	Instrument ID:	A4AG2
Prep Method:	3520C	Prep Batch:	240-30848	Lab File ID:	0124023.D
Dilution:	1.0			Initial Weight/Volume:	1010 mL
Analysis Date:	01/24/2012 1355			Final Weight/Volume:	2.00 mL
Prep Date:	01/20/2012 0737			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.099	9.9
Acenaphthylene	ND		0.099	9.9
Anthracene	ND		0.099	9.9
Benzo[a]anthracene	ND		0.099	0.20
Benzo[b]fluoranthene	ND		0.099	9.9
Benzo[k]fluoranthene	ND		0.099	9.9
Benzo[g,h,i]perylene	ND		0.099	9.9
Benzo[a]pyrene	ND		0.099	9.9
Chrysene	ND		0.099	9.9
2-Methylnaphthalene	ND		0.099	9.9
Dibenz(a,h)anthracene	ND		0.099	9.9
Fluoranthene	ND		0.099	9.9
Fluorene	ND		0.099	9.9
Indeno[1,2,3-cd]pyrene	ND		0.099	9.9
Naphthalene	ND		0.099	9.9
Phenanthrene	ND		0.099	9.9
Pyrene	ND		0.099	9.9

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	58		28 - 110
2-Fluorophenol (Surr)	66		10 - 110
2,4,6-Tribromophenol (Surr)	51		22 - 120
Nitrobenzene-d5 (Surr)	67		27 - 111
Phenol-d5 (Surr)	65		10 - 110
Terphenyl-d14 (Surr)	46		37 - 119

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **DUP-02**

Lab Sample ID: 240-7777-3FD Date Sampled: 01/17/2012 0000
Client Matrix: Water Date Received: 01/19/2012 0930

8270C Semivolatile Organic Compounds (GC/MS)

Analysis Method:	8270C	Analysis Batch:	240-31131	Instrument ID:	A4AG2
Prep Method:	3520C	Prep Batch:	240-30848	Lab File ID:	0124024.D
Dilution:	1.0			Initial Weight/Volume:	960 mL
Analysis Date:	01/24/2012 1412			Final Weight/Volume:	2.00 mL
Prep Date:	01/20/2012 0737			Injection Volume:	1 uL

Analyte	Result (ug/L)	Qualifier	MDL	RL
Acenaphthene	ND		0.10	10
Acenaphthylene	ND		0.10	10
Anthracene	ND		0.10	10
Benzo[a]anthracene	ND		0.10	0.21
Benzo[b]fluoranthene	ND		0.10	10
Benzo[k]fluoranthene	ND		0.10	10
Benzo[g,h,i]perylene	ND		0.10	10
Benzo[a]pyrene	ND		0.10	10
Chrysene	ND		0.10	10
2-Methylnaphthalene	ND		0.10	10
Dibenz(a,h)anthracene	ND		0.10	10
Fluoranthene	ND		0.10	10
Fluorene	ND		0.10	10
Indeno[1,2,3-cd]pyrene	ND		0.10	10
Naphthalene	ND		0.10	10
Phenanthrene	ND		0.10	10
Pyrene	ND		0.10	10

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl (Surr)	52		28 - 110
2-Fluorophenol (Surr)	59		10 - 110
2,4,6-Tribromophenol (Surr)	44		22 - 120
Nitrobenzene-d5 (Surr)	61		27 - 111
Phenol-d5 (Surr)	58		10 - 110
Terphenyl-d14 (Surr)	42		37 - 119

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **AMW-19**

Lab Sample ID: 240-7777-1 Date Sampled: 01/17/2012 1225
Client Matrix: Water Date Received: 01/19/2012 0930

WI-GRO Wisconsin - Gasoline Range Organics (GC)

Analysis Method:	WI-GRO	Analysis Batch:	240-31526	Instrument ID:	O
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	O1012613.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	01/26/2012 1739			Final Weight/Volume:	5 mL
Prep Date:	01/26/2012 1739			Injection Volume:	

Analyte	Result (ug/L)	Qualifier	MDL	RL
WI Gasoline Range Organics (C6-C10)	ND		26	100

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **AMW-20**

Lab Sample ID: 240-7777-2 Date Sampled: 01/17/2012 1415
Client Matrix: Water Date Received: 01/19/2012 0930

WI-GRO Wisconsin - Gasoline Range Organics (GC)

Analysis Method:	WI-GRO	Analysis Batch:	240-31526	Instrument ID:	O
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	O1012616.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	01/26/2012 1922			Final Weight/Volume:	5 mL
Prep Date:	01/26/2012 1922			Injection Volume:	

Analyte	Result (ug/L)	Qualifier	MDL	RL
WI Gasoline Range Organics (C6-C10)	ND		26	100

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **DUP-02**

Lab Sample ID: 240-7777-3FD Date Sampled: 01/17/2012 0000
Client Matrix: Water Date Received: 01/19/2012 0930

WI-GRO Wisconsin - Gasoline Range Organics (GC)

Analysis Method:	WI-GRO	Analysis Batch:	240-31526	Instrument ID:	O
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	O1012617.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	01/26/2012 1956			Final Weight/Volume:	5 mL
Prep Date:	01/26/2012 1956			Injection Volume:	

Analyte	Result (ug/L)	Qualifier	MDL	RL
WI Gasoline Range Organics (C6-C10)	ND		26	100

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **AMW-19**

Lab Sample ID: 240-7777-1 Date Sampled: 01/17/2012 1225
Client Matrix: Water Date Received: 01/19/2012 0930

WI-DRO Wisconsin - Diesel Range Organics (GC)

Analysis Method:	WI-DRO	Analysis Batch:	240-31199	Instrument ID:	A2HP14F
Prep Method:	3510C	Prep Batch:	240-30867	Lab File ID:	P14F0000008.D
Dilution:	1.0			Initial Weight/Volume:	970 mL
Analysis Date:	01/24/2012 1406			Final Weight/Volume:	1.00 mL
Prep Date:	01/20/2012 0755			Injection Volume:	1 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
WI Diesel Range Organics (C10-C28)	ND	*	0.016	0.10

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **AMW-20**

Lab Sample ID: 240-7777-2 Date Sampled: 01/17/2012 1415
Client Matrix: Water Date Received: 01/19/2012 0930

WI-DRO Wisconsin - Diesel Range Organics (GC)

Analysis Method:	WI-DRO	Analysis Batch:	240-31199	Instrument ID:	A2HP14F
Prep Method:	3510C	Prep Batch:	240-30867	Lab File ID:	P14F0000011.D
Dilution:	1.0			Initial Weight/Volume:	980 mL
Analysis Date:	01/24/2012 1519			Final Weight/Volume:	1.00 mL
Prep Date:	01/20/2012 0755			Injection Volume:	1 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
WI Diesel Range Organics (C10-C28)	0.46	*	0.016	0.10

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **DUP-02**

Lab Sample ID: 240-7777-3FD Date Sampled: 01/17/2012 0000
Client Matrix: Water Date Received: 01/19/2012 0930

WI-DRO Wisconsin - Diesel Range Organics (GC)

Analysis Method:	WI-DRO	Analysis Batch:	240-31199	Instrument ID:	A2HP14F
Prep Method:	3510C	Prep Batch:	240-30867	Lab File ID:	P14F0000012.D
Dilution:	1.0			Initial Weight/Volume:	990 mL
Analysis Date:	01/24/2012 1544			Final Weight/Volume:	1.00 mL
Prep Date:	01/20/2012 0755			Injection Volume:	1 uL

Analyte	Result (mg/L)	Qualifier	MDL	RL
WI Diesel Range Organics (C10-C28)	1.2	*	0.016	0.10

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **AMW-19**

Lab Sample ID: 240-7777-1 Date Sampled: 01/17/2012 1225
Client Matrix: Water Date Received: 01/19/2012 0930

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-31467	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-31087	Lab File ID:	I60125A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/25/2012 1022			Final Weight/Volume:	50 mL
Prep Date:	01/23/2012 1147				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	220	B	0.67	200
Aluminum	ND		97	200
Cadmium	ND		0.66	5.0
Chromium	ND		2.2	10
Silver	ND		2.2	10
Arsenic	ND		3.2	10
Beryllium	ND		0.46	5.0
Lead	ND		1.9	3.0
Calcium	150000	B	130	5000
Selenium	ND		4.1	5.0
Cobalt	3.1	J	1.7	7.0
Copper	ND		4.5	25
Iron	ND		81	100
Potassium	3900	J B	72	5000
Magnesium	41000	B	34	5000
Manganese	1700	B	0.41	15
Sodium	51000		590	5000
Nickel	ND		3.2	40
Antimony	ND		1.8	10
Thallium	9.7	J	4.7	10
Vanadium	ND		0.64	7.0
Zinc	ND		5.0	50

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-31390	Instrument ID:	H1
Prep Method:	7470A	Prep Batch:	240-30868	Lab File ID:	H1012512B.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	01/25/2012 1132			Final Weight/Volume:	100 mL
Prep Date:	01/20/2012 1335				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	ND		0.12	0.20

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **AMW-20**

Lab Sample ID: 240-7777-2 Date Sampled: 01/17/2012 1415
Client Matrix: Water Date Received: 01/19/2012 0930

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-31467	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-31087	Lab File ID:	I60125A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/25/2012 1202			Final Weight/Volume:	50 mL
Prep Date:	01/23/2012 1147				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	160	J B	0.67	200
Aluminum	ND		97	200
Cadmium	ND		0.66	5.0
Chromium	ND		2.2	10
Silver	ND		2.2	10
Arsenic	ND		3.2	10
Beryllium	ND		0.46	5.0
Lead	ND		1.9	3.0
Calcium	180000	B	130	5000
Selenium	ND		4.1	5.0
Cobalt	3.3	J	1.7	7.0
Copper	ND		4.5	25
Iron	550		81	100
Potassium	3300	J B	72	5000
Magnesium	48000	B	34	5000
Manganese	1700	B	0.41	15
Sodium	58000		590	5000
Nickel	4.5	J	3.2	40
Antimony	ND		1.8	10
Thallium	ND		4.7	10
Vanadium	ND		0.64	7.0
Zinc	ND		5.0	50

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-31390	Instrument ID:	H1
Prep Method:	7470A	Prep Batch:	240-30868	Lab File ID:	H1012512B.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	01/25/2012 1144			Final Weight/Volume:	100 mL
Prep Date:	01/20/2012 1335				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	ND		0.12	0.20

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Client Sample ID: **DUP-02**

Lab Sample ID: 240-7777-3FD Date Sampled: 01/17/2012 0000
Client Matrix: Water Date Received: 01/19/2012 0930

6010B Metals (ICP)-Dissolved

Analysis Method:	6010B	Analysis Batch:	240-31467	Instrument ID:	I6
Prep Method:	3005A	Prep Batch:	240-31087	Lab File ID:	I60125A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	01/25/2012 1208			Final Weight/Volume:	50 mL
Prep Date:	01/23/2012 1147				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Barium	160	J B	0.67	200
Aluminum	ND		97	200
Cadmium	ND		0.66	5.0
Chromium	ND		2.2	10
Silver	ND		2.2	10
Arsenic	ND		3.2	10
Beryllium	ND		0.46	5.0
Lead	ND		1.9	3.0
Calcium	180000	B	130	5000
Selenium	ND		4.1	5.0
Cobalt	6.4	J	1.7	7.0
Copper	ND		4.5	25
Iron	700		81	100
Potassium	3300	J B	72	5000
Magnesium	48000	B	34	5000
Manganese	1700	B	0.41	15
Sodium	58000		590	5000
Nickel	4.8	J	3.2	40
Antimony	ND		1.8	10
Thallium	5.9	J	4.7	10
Vanadium	ND		0.64	7.0
Zinc	ND		5.0	50

7470A Mercury (CVAA)-Dissolved

Analysis Method:	7470A	Analysis Batch:	240-31390	Instrument ID:	H1
Prep Method:	7470A	Prep Batch:	240-30868	Lab File ID:	H1012512B.PRN
Dilution:	1.0			Initial Weight/Volume:	100 mL
Analysis Date:	01/25/2012 1145			Final Weight/Volume:	100 mL
Prep Date:	01/20/2012 1335				

Analyte	Result (ug/L)	Qualifier	MDL	RL
Mercury	ND		0.12	0.20

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Lab Section	Qualifier	Description
GC/MS VOA		
	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		
	F	MS or MSD 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.
	F	RPD of the MS and MSD exceeds the control limits
	X	Surrogate is outside control limits
GC Semi VOA		
	*	RPD of the LCS and LCSD exceeds the control limits
Metals		
	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.

QUALITY CONTROL RESULTS

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:240-31076					
LCS 240-31076/4	Lab Control Sample	T	Water	8260B	
MB 240-31076/5	Method Blank	T	Water	8260B	
240-7777-1	AMW-19	T	Water	8260B	
240-7777-1MS	Matrix Spike	T	Water	8260B	
240-7777-1MSD	Matrix Spike Duplicate	T	Water	8260B	
240-7777-2	AMW-20	T	Water	8260B	
240-7777-3FD	DUP-02	T	Water	8260B	
240-7777-4TB	TB-(20120117)-01	T	Water	8260B	

Report Basis
T = Total

GC/MS Semi VOA					
Prep Batch: 240-30848					
LCS 240-30848/2-A	Lab Control Sample	T	Water	3520C	
MB 240-30848/1-A	Method Blank	T	Water	3520C	
240-7777-1	AMW-19	T	Water	3520C	
240-7777-1MS	Matrix Spike	T	Water	3520C	
240-7777-1MSD	Matrix Spike Duplicate	T	Water	3520C	
240-7777-2	AMW-20	T	Water	3520C	
240-7777-3FD	DUP-02	T	Water	3520C	
Analysis Batch:240-31131					
LCS 240-30848/2-A	Lab Control Sample	T	Water	8270C	240-30848
MB 240-30848/1-A	Method Blank	T	Water	8270C	240-30848
240-7777-1	AMW-19	T	Water	8270C	240-30848
240-7777-1MS	Matrix Spike	T	Water	8270C	240-30848
240-7777-2	AMW-20	T	Water	8270C	240-30848
240-7777-3FD	DUP-02	T	Water	8270C	240-30848
Analysis Batch:240-31304					
240-7777-1MSD	Matrix Spike Duplicate	T	Water	8270C	240-30848

Report Basis
T = Total

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Analysis Batch:240-31526					
LCS 240-31526/6	Lab Control Sample	T	Water	WI-GRO	
LCSD 240-31526/18	Lab Control Sample Duplicate	T	Water	WI-GRO	
MB 240-31526/5	Method Blank	T	Water	WI-GRO	
240-7777-1	AMW-19	T	Water	WI-GRO	
240-7777-1MS	Matrix Spike	T	Water	WI-GRO	
240-7777-1MSD	Matrix Spike Duplicate	T	Water	WI-GRO	
240-7777-2	AMW-20	T	Water	WI-GRO	
240-7777-3FD	DUP-02	T	Water	WI-GRO	

Report Basis
T = Total

GC Semi VOA					
Prep Batch: 240-30867					
LCS 240-30867/2-A	Lab Control Sample	T	Water	3510C	
LCSD 240-30867/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 240-30867/1-A	Method Blank	T	Water	3510C	
240-7777-1	AMW-19	T	Water	3510C	
240-7777-1MS	Matrix Spike	T	Water	3510C	
240-7777-1MSD	Matrix Spike Duplicate	T	Water	3510C	
240-7777-2	AMW-20	T	Water	3510C	
240-7777-3FD	DUP-02	T	Water	3510C	
Analysis Batch:240-31199					
LCS 240-30867/2-A	Lab Control Sample	T	Water	WI-DRO	240-30867
LCSD 240-30867/3-A	Lab Control Sample Duplicate	T	Water	WI-DRO	240-30867
MB 240-30867/1-A	Method Blank	T	Water	WI-DRO	240-30867
240-7777-1	AMW-19	T	Water	WI-DRO	240-30867
240-7777-1MS	Matrix Spike	T	Water	WI-DRO	240-30867
240-7777-1MSD	Matrix Spike Duplicate	T	Water	WI-DRO	240-30867
240-7777-2	AMW-20	T	Water	WI-DRO	240-30867
240-7777-3FD	DUP-02	T	Water	WI-DRO	240-30867

Report Basis
T = Total

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 240-30868					
LCS 240-30868/2-A	Lab Control Sample	T	Water	7470A	
MB 240-30868/1-A	Method Blank	T	Water	7470A	
240-7777-1	AMW-19	D	Water	7470A	
240-7777-1MS	Matrix Spike	D	Water	7470A	
240-7777-1MSD	Matrix Spike Duplicate	D	Water	7470A	
240-7777-2	AMW-20	D	Water	7470A	
240-7777-3FD	DUP-02	D	Water	7470A	
Prep Batch: 240-31087					
LCS 240-31087/2-A	Lab Control Sample	R	Water	3005A	
MB 240-31087/1-A	Method Blank	R	Water	3005A	
240-7777-1	AMW-19	D	Water	3005A	
240-7777-1MS	Matrix Spike	D	Water	3005A	
240-7777-1MSD	Matrix Spike Duplicate	D	Water	3005A	
240-7777-2	AMW-20	D	Water	3005A	
240-7777-3FD	DUP-02	D	Water	3005A	
Analysis Batch:240-31390					
LCS 240-30868/2-A	Lab Control Sample	T	Water	7470A	240-30868
MB 240-30868/1-A	Method Blank	T	Water	7470A	240-30868
240-7777-1	AMW-19	D	Water	7470A	240-30868
240-7777-1MS	Matrix Spike	D	Water	7470A	240-30868
240-7777-1MSD	Matrix Spike Duplicate	D	Water	7470A	240-30868
240-7777-2	AMW-20	D	Water	7470A	240-30868
240-7777-3FD	DUP-02	D	Water	7470A	240-30868
Analysis Batch:240-31467					
LCS 240-31087/2-A	Lab Control Sample	R	Water	6010B	240-31087
MB 240-31087/1-A	Method Blank	R	Water	6010B	240-31087
240-7777-1	AMW-19	D	Water	6010B	240-31087
240-7777-1MS	Matrix Spike	D	Water	6010B	240-31087
240-7777-1MSD	Matrix Spike Duplicate	D	Water	6010B	240-31087
240-7777-2	AMW-20	D	Water	6010B	240-31087
240-7777-3FD	DUP-02	D	Water	6010B	240-31087

Report Basis

D = Dissolved

R = Total Recoverable

T = Total

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	TOL %Rec	DBFM %Rec
240-7777-1	AMW-19	91	88	90	91
240-7777-2	AMW-20	90	86	87	92
240-7777-3	DUP-02	92	87	88	92
240-7777-4	TB-(20120117)-01	90	87	87	90
MB 240-31076/5		97	96	96	101
LCS 240-31076/4		88	91	89	93
240-7777-1 MS	AMW-19 MS	89	91	90	97
240-7777-1 MSD	AMW-19 MSD	85	90	89	93

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	63-129
BFB = 4-Bromofluorobenzene (Surr)	66-117
TOL = Toluene-d8 (Surr)	74-115
DBFM = Dibromofluoromethane (Surr)	75-121

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Surrogate Recovery Report

8270C Semivolatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	FBP %Rec	2FP %Rec	TBP %Rec	NBZ %Rec	PHL %Rec	TPH %Rec
240-7777-1	AMW-19	63	69	54	72	68	61
240-7777-2	AMW-20	58	66	51	67	65	46
240-7777-3	DUP-02	52	59	44	61	58	42
MB 240-30848/1-A		56	63	46	64	61	67
LCS 240-30848/2-A		64	73	62	76	72	72
240-7777-1 MS	AMW-19 MS	64	75	59	74	73	41
240-7777-1 MSD	AMW-19 MSD	57	62	56	62	64	35X

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl (Surr)	28-110
2FP = 2-Fluorophenol (Surr)	10-110
TBP = 2,4,6-Tribromophenol (Surr)	22-120
NBZ = Nitrobenzene-d5 (Surr)	27-111
PHL = Phenol-d5 (Surr)	10-110
TPH = Terphenyl-d14 (Surr)	37-119

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Method Blank - Batch: 240-31076 **Method: 8260B**
Preparation: 5030B

Lab Sample ID:	MB 240-31076/5	Analysis Batch:	240-31076	Instrument ID:	A3UX16
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXM3074.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/23/2012 1213	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	01/23/2012 1213				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
1,1,1,2-Tetrachloroethane	ND		0.23	1.0
1,1,1-Trichloroethane	ND		0.22	1.0
1,1,2,2-Tetrachloroethane	ND		0.18	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.28	1.0
1,1,2-Trichloroethane	ND		0.27	1.0
1,1-Dichloroethane	ND		0.15	1.0
1,1-Dichloroethene	ND		0.19	1.0
1,1-Dichloropropene	ND		0.13	1.0
1,2,3-Trichlorobenzene	0.319	J	0.17	1.0
1,2,3-Trichloropropane	ND		0.43	1.0
1,2,4-Trichlorobenzene	ND		0.15	1.0
1,2,4-Trimethylbenzene	ND		0.12	1.0
1,2-Dibromo-3-Chloropropane	ND		0.67	2.0
1,2-Dichlorobenzene	ND		0.13	1.0
1,2-Dichloroethane	ND		0.22	1.0
1,2-Dichloropropane	ND		0.18	1.0
1,3,5-Trimethylbenzene	ND		0.096	1.0
1,3-Dichlorobenzene	ND		0.14	1.0
1,3-Dichloropropane	ND		0.16	1.0
1,4-Dichlorobenzene	ND		0.13	1.0
Allyl chloride	ND		0.35	2.0
2,2-Dichloropropane	ND		0.13	1.0
2-Chlorotoluene	ND		0.11	1.0
2-Hexanone	ND		0.41	10
Bromobenzene	ND		0.13	1.0
Bromochloromethane	ND		0.29	1.0
4-Chlorotoluene	ND		0.18	1.0
p-Isopropyltoluene	ND		0.12	1.0
Acetone	ND		1.1	10
Benzene	ND		0.13	1.0
Bromoform	ND		0.64	1.0
Bromomethane	ND		0.41	1.0
Carbon disulfide	ND		0.13	1.0
Carbon tetrachloride	ND		0.13	1.0
Chlorobenzene	ND		0.15	1.0
Chloroethane	ND		0.29	1.0
Chloroform	ND		0.16	1.0
Chloromethane	ND		0.30	1.0
cis-1,2-Dichloroethene	ND		0.17	1.0
cis-1,3-Dichloropropene	ND		0.14	1.0
Cyclohexane	ND		0.12	1.0
Hexachlorobutadiene	ND		0.30	1.0
Dibromomethane	ND		0.28	1.0
Bromodichloromethane	ND		0.15	1.0
Dichlorodifluoromethane	ND		0.31	1.0

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Method Blank - Batch: 240-31076 **Method: 8260B**
Preparation: 5030B

Lab Sample ID:	MB 240-31076/5	Analysis Batch:	240-31076	Instrument ID:	A3UX16
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXM3074.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/23/2012 1213	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	01/23/2012 1213				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Dichlorofluoromethane	ND		0.42	2.0
Ethyl ether	ND		0.31	2.0
Ethylbenzene	ND		0.17	1.0
1,2-Dibromoethane	ND		0.24	1.0
Naphthalene	ND		0.24	1.0
m-Xylene & p-Xylene	ND		0.24	2.0
n-Butylbenzene	ND		0.12	1.0
Isopropylbenzene	ND		0.13	1.0
Methyl acetate	ND		0.38	10
N-Propylbenzene	ND		0.14	1.0
2-Butanone (MEK)	ND		0.57	10
4-Methyl-2-pentanone (MIBK)	ND		0.32	10
sec-Butylbenzene	ND		0.13	1.0
Methyl tert butyl ether	ND		0.17	5.0
Methylene Chloride	ND		0.33	1.0
o-Xylene	ND		0.14	1.0
Styrene	ND		0.11	1.0
tert-Butylbenzene	ND		0.13	1.0
Tetrachloroethene	ND		0.29	1.0
Tetrahydrofuran	ND		0.42	5.0
Toluene	ND		0.13	1.0
trans-1,2-Dichloroethene	ND		0.19	1.0
trans-1,3-Dichloropropene	ND		0.19	1.0
Trichloroethene	ND		0.17	1.0
Trichlorofluoromethane	ND		0.21	1.0
Vinyl chloride	ND		0.22	1.0
Methylcyclohexane	ND		0.13	1.0
Chlorodibromomethane	ND		0.18	1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	63 - 129
4-Bromofluorobenzene (Surr)	96	66 - 117
Toluene-d8 (Surr)	96	74 - 115
Dibromofluoromethane (Surr)	101	75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Lab Control Sample - Batch: 240-31076

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 240-31076/4	Analysis Batch:	240-31076	Instrument ID:	A3UX16
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXM3073.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/23/2012 1150	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	01/23/2012 1150				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,1,1,2-Tetrachloroethane	10.0	8.76	88	72 - 116	
1,1,1-Trichloroethane	10.0	9.57	96	74 - 118	
1,1,2,2-Tetrachloroethane	10.0	7.86	79	68 - 118	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	12.2	122	74 - 151	
1,1,2-Trichloroethane	10.0	8.48	85	80 - 112	
1,1-Dichloroethane	10.0	9.09	91	82 - 115	
1,1-Dichloroethene	10.0	10.1	101	78 - 131	
1,1-Dichloropropene	10.0	9.50	95	83 - 114	
1,2,3-Trichlorobenzene	10.0	8.48	85	54 - 126	
1,2,3-Trichloropropane	10.0	8.50	85	73 - 129	
1,2,4-Trichlorobenzene	10.0	8.80	88	48 - 135	
1,2,4-Trimethylbenzene	10.0	8.60	86	76 - 120	
1,2-Dibromo-3-Chloropropane	10.0	7.82	78	42 - 136	
1,2-Dichlorobenzene	10.0	8.54	85	81 - 110	
1,2-Dichloroethane	10.0	8.90	89	71 - 127	
1,2-Dichloropropane	10.0	8.80	88	81 - 115	
1,3,5-Trimethylbenzene	10.0	8.72	87	72 - 118	
1,3-Dichlorobenzene	10.0	8.55	86	80 - 110	
1,3-Dichloropropane	10.0	8.23	82	79 - 116	
1,4-Dichlorobenzene	10.0	8.45	85	82 - 110	
2,2-Dichloropropane	10.0	9.54	95	50 - 129	
2-Chlorotoluene	10.0	8.59	86	76 - 116	
2-Hexanone	20.0	15.1	76	55 - 133	
Bromobenzene	10.0	8.67	87	76 - 115	
Bromochloromethane	10.0	9.69	97	77 - 120	
4-Chlorotoluene	10.0	8.37	84	77 - 115	
p-Isopropyltoluene	10.0	9.18	92	74 - 120	
Acetone	20.0	12.9	65	43 - 136	
Benzene	10.0	9.16	92	83 - 112	
Bromoform	10.0	7.71	77	40 - 131	
Bromomethane	10.0	11.8	118	11 - 185	
Carbon disulfide	10.0	9.25	93	62 - 142	
Carbon tetrachloride	10.0	9.45	95	66 - 128	
Chlorobenzene	10.0	8.84	88	85 - 110	
Chloroethane	10.0	10.2	102	25 - 153	
Chloroform	10.0	9.76	98	79 - 117	
Chloromethane	10.0	8.56	86	44 - 126	
cis-1,2-Dichloroethene	10.0	9.46	95	80 - 113	
cis-1,3-Dichloropropene	10.0	8.53	85	61 - 115	
Cyclohexane	10.0	9.53	95	54 - 121	
Hexachlorobutadiene	10.0	8.09	81	36 - 134	

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Lab Control Sample - Batch: 240-31076

Method: 8260B
Preparation: 5030B

Lab Sample ID:	LCS 240-31076/4	Analysis Batch:	240-31076	Instrument ID:	A3UX16
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXM3073.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/23/2012 1150	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	01/23/2012 1150				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dibromomethane	10.0	9.11	91	81 - 120	
Bromodichloromethane	10.0	8.77	88	72 - 121	
Dichlorodifluoromethane	10.0	8.59	86	19 - 129	
Ethyl ether	10.0	10.5	105	53 - 135	
Ethylbenzene	10.0	8.95	90	83 - 112	
1,2-Dibromoethane	10.0	8.48	85	79 - 113	
Naphthalene	10.0	8.80	88	32 - 141	
m-Xylene & p-Xylene	20.0	17.8	89	83 - 113	
n-Butylbenzene	10.0	8.84	88	66 - 125	
Isopropylbenzene	10.0	9.09	91	75 - 114	
Methyl acetate	10.0	6.87	69	58 - 131	J
N-Propylbenzene	10.0	8.98	90	74 - 121	
2-Butanone (MEK)	20.0	13.9	70	60 - 126	
4-Methyl-2-pentanone (MIBK)	20.0	16.0	80	63 - 128	
sec-Butylbenzene	10.0	8.61	86	70 - 117	
Methyl tert butyl ether	10.0	9.36	94	52 - 144	
Methylene Chloride	10.0	8.47	85	66 - 131	
o-Xylene	10.0	9.24	92	83 - 113	
Styrene	10.0	9.27	93	79 - 114	
tert-Butylbenzene	10.0	8.15	82	71 - 115	
Tetrachloroethene	10.0	8.73	87	79 - 114	
Tetrahydrofuran	10.0	6.91	69	23 - 143	
Toluene	10.0	8.53	85	84 - 111	
trans-1,2-Dichloroethene	10.0	9.83	98	83 - 117	
trans-1,3-Dichloropropene	10.0	8.30	83	58 - 117	
Trichloroethene	10.0	9.63	96	76 - 117	
Trichlorofluoromethane	10.0	11.0	110	49 - 157	
Vinyl chloride	10.0	9.51	95	53 - 127	
Methylcyclohexane	10.0	10.7	107	56 - 127	
Chlorodibromomethane	10.0	8.58	86	64 - 119	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	88	63 - 129
4-Bromofluorobenzene (Surr)	91	66 - 117
Toluene-d8 (Surr)	89	74 - 115
Dibromofluoromethane (Surr)	93	75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-31076

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	240-7777-1	Analysis Batch:	240-31076	Instrument ID:	A3UX16
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXM3098.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/23/2012 2118			Final Weight/Volume:	5 mL
Prep Date:	01/23/2012 2118				
Leach Date:	N/A				

MSD Lab Sample ID:	240-7777-1	Analysis Batch:	240-31076	Instrument ID:	A3UX16
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXM3099.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/23/2012 2140			Final Weight/Volume:	5 mL
Prep Date:	01/23/2012 2140				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
1,1,1,2-Tetrachloroethane	81	87	64 - 118	7	30		
1,1,1-Trichloroethane	96	97	68 - 121	0	30		
1,1,2,2-Tetrachloroethane	75	77	63 - 122	3	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	134	117	70 - 152	14	30		
1,1,2-Trichloroethane	81	83	75 - 115	3	30		
1,1-Dichloroethane	88	91	79 - 116	3	30		
1,1-Dichloroethene	105	102	74 - 135	3	30		
1,1-Dichloropropene	96	92	80 - 114	5	30		
1,2,3-Trichlorobenzene	77	85	45 - 129	9	30		
1,2,3-Trichloropropane	79	82	67 - 132	3	30		
1,2,4-Trichlorobenzene	76	82	38 - 138	8	30		
1,2,4-Trimethylbenzene	82	85	67 - 124	3	30		
1,2-Dibromo-3-Chloropropane	81	83	32 - 139	2	30		
1,2-Dichlorobenzene	80	84	75 - 111	5	30		
1,2-Dichloroethane	85	88	68 - 129	3	30		
1,2-Dichloropropane	83	86	78 - 115	4	30		
1,3,5-Trimethylbenzene	82	85	63 - 121	3	30		
1,3-Dichlorobenzene	80	83	73 - 110	4	30		
1,3-Dichloropropane	79	80	74 - 118	1	30		
1,4-Dichlorobenzene	80	83	75 - 110	3	30		
2,2-Dichloropropane	92	91	38 - 127	2	30		
2-Chlorotoluene	83	83	69 - 117	1	30		
2-Hexanone	73	73	47 - 139	0	30		
Bromobenzene	85	85	71 - 116	1	30		
Bromochloromethane	90	94	73 - 121	4	30		
4-Chlorotoluene	80	83	71 - 116	4	30		
p-Isopropyltoluene	91	95	64 - 122	4	30		
Acetone	58	63	33 - 145	8	30		
Benzene	87	89	72 - 121	2	30		
Bromoform	73	73	32 - 128	1	30		
Bromomethane	110	133	10 - 186	19	30		
Carbon disulfide	93	92	57 - 147	1	30		

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-31076

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	240-7777-1	Analysis Batch:	240-31076	Instrument ID:	A3UX16
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXM3098.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/23/2012 2118			Final Weight/Volume:	5 mL
Prep Date:	01/23/2012 2118				
Leach Date:	N/A				

MSD Lab Sample ID:	240-7777-1	Analysis Batch:	240-31076	Instrument ID:	A3UX16
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXM3099.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/23/2012 2140			Final Weight/Volume:	5 mL
Prep Date:	01/23/2012 2140				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Carbon tetrachloride	97	95	59 - 129	3	30		
Chlorobenzene	85	86	80 - 110	1	30		
Chloroethane	95	105	21 - 165	10	30		
Chloroform	93	98	76 - 118	5	30		
Chloromethane	81	88	33 - 132	7	30		
cis-1,2-Dichloroethene	93	94	70 - 120	1	30		
cis-1,3-Dichloropropene	77	79	51 - 110	3	30		
Cyclohexane	108	93	49 - 123	15	30		
Hexachlorobutadiene	72	76	27 - 132	5	30		
Dibromomethane	86	89	77 - 121	3	30		
Bromodichloromethane	81	88	67 - 120	8	30		
Dichlorodifluoromethane	98	81	17 - 128	19	30		
Ethyl ether	105	101	63 - 136	4	30		
Ethylbenzene	86	87	75 - 116	1	30		
1,2-Dibromoethane	80	82	74 - 113	2	30		
Naphthalene	82	87	15 - 158	5	30		
m-Xylene & p-Xylene	85	87	75 - 117	2	30		
n-Butylbenzene	78	81	56 - 127	3	30		
Isopropylbenzene	84	88	68 - 116	5	30		
Methyl acetate	67	65	47 - 130	3	30	J	J
N-Propylbenzene	85	87	64 - 124	3	30		
2-Butanone (MEK)	70	65	54 - 129	7	30		
4-Methyl-2-pentanone (MIBK)	80	79	56 - 131	2	30		
sec-Butylbenzene	81	81	60 - 119	0	30		
Methyl tert butyl ether	91	92	46 - 144	1	30		
Methylene Chloride	82	86	63 - 128	5	30		
o-Xylene	86	91	76 - 116	6	30		
Styrene	83	85	71 - 117	3	30		
tert-Butylbenzene	78	81	61 - 119	3	30		
Tetrachloroethene	87	88	70 - 117	1	30		
Tetrahydrofuran	68	66	10 - 167	2	30		
Toluene	81	86	78 - 114	6	30		

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-31076

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	240-7777-1	Analysis Batch:	240-31076	Instrument ID:	A3UX16
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXM3098.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/23/2012 2118			Final Weight/Volume:	5 mL
Prep Date:	01/23/2012 2118				
Leach Date:	N/A				

MSD Lab Sample ID:	240-7777-1	Analysis Batch:	240-31076	Instrument ID:	A3UX16
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	UXM3099.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/23/2012 2140			Final Weight/Volume:	5 mL
Prep Date:	01/23/2012 2140				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
trans-1,2-Dichloroethene	96	98	80 - 119	2	30		
trans-1,3-Dichloropropene	76	78	46 - 116	2	30		
Trichloroethene	93	94	66 - 120	1	30		
Trichlorofluoromethane	111	110	46 - 157	1	30		
Vinyl chloride	96	95	49 - 130	1	30		
Methylcyclohexane	120	97	49 - 127	22	30		
Chlorodibromomethane	77	82	56 - 118	6	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	89	85	63 - 129
4-Bromofluorobenzene (Surr)	91	90	66 - 117
Toluene-d8 (Surr)	90	89	74 - 115
Dibromofluoromethane (Surr)	97	93	75 - 121

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Method Blank - Batch: 240-30848

Method: 8270C
Preparation: 3520C

Lab Sample ID:	MB 240-30848/1-A	Analysis Batch:	240-31131	Instrument ID:	A4AG2
Client Matrix:	Water	Prep Batch:	240-30848	Lab File ID:	0124008.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	01/24/2012 0935	Units:	ug/L	Final Weight/Volume:	2.00 mL
Prep Date:	01/20/2012 0737			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Acenaphthene	ND		0.10	10
Acenaphthylene	ND		0.10	10
Anthracene	ND		0.10	10
Benzo[a]anthracene	ND		0.10	0.20
Benzo[b]fluoranthene	ND		0.10	10
Benzo[k]fluoranthene	ND		0.10	10
Benzo[g,h,i]perylene	ND		0.10	10
Benzo[a]pyrene	ND		0.10	10
Chrysene	ND		0.10	10
2-Methylnaphthalene	ND		0.10	10
Dibenz(a,h)anthracene	ND		0.10	10
Fluoranthene	ND		0.10	10
Fluorene	ND		0.10	10
Indeno[1,2,3-cd]pyrene	ND		0.10	10
Naphthalene	ND		0.10	10
Phenanthrene	ND		0.10	10
Pyrene	ND		0.10	10

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	56	28 - 110
2-Fluorophenol (Surr)	63	10 - 110
2,4,6-Tribromophenol (Surr)	46	22 - 120
Nitrobenzene-d5 (Surr)	64	27 - 111
Phenol-d5 (Surr)	61	10 - 110
Terphenyl-d14 (Surr)	67	37 - 119

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Lab Control Sample - Batch: 240-30848

Method: 8270C
Preparation: 3520C

Lab Sample ID:	LCS 240-30848/2-A	Analysis Batch:	240-31131	Instrument ID:	A4AG2
Client Matrix:	Water	Prep Batch:	240-30848	Lab File ID:	0124009.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	01/24/2012 0952	Units:	ug/L	Final Weight/Volume:	2.00 mL
Prep Date:	01/20/2012 0737			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acenaphthene	20.0	12.7	64	40 - 110	
Acenaphthylene	20.0	13.0	65	43 - 110	
Anthracene	20.0	13.0	65	54 - 114	
Benzo[a]anthracene	20.0	12.4	62	55 - 115	
Benzo[b]fluoranthene	20.0	11.9	60	43 - 122	
Benzo[k]fluoranthene	20.0	14.2	71	43 - 124	
Benzo[g,h,i]perylene	20.0	13.4	67	45 - 120	
Benzo[a]pyrene	20.0	11.2	56	43 - 116	
Chrysene	20.0	14.6	73	55 - 115	
2-Methylnaphthalene	20.0	13.0	65	35 - 110	
Dibenz(a,h)anthracene	20.0	12.6	63	46 - 122	
Fluoranthene	20.0	13.6	68	54 - 122	
Fluorene	20.0	13.1	66	47 - 112	
Indeno[1,2,3-cd]pyrene	20.0	12.6	63	46 - 121	
Naphthalene	20.0	13.6	68	31 - 110	
Phenanthrene	20.0	13.4	67	52 - 114	
Pyrene	20.0	13.1	65	55 - 120	

Surrogate	% Rec	Acceptance Limits
2-Fluorobiphenyl (Surr)	64	28 - 110
2-Fluorophenol (Surr)	73	10 - 110
2,4,6-Tribromophenol (Surr)	62	22 - 120
Nitrobenzene-d5 (Surr)	76	27 - 111
Phenol-d5 (Surr)	72	10 - 110
Terphenyl-d14 (Surr)	72	37 - 119

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-30848

Method: 8270C
Preparation: 3520C

MS Lab Sample ID:	240-7777-1	Analysis Batch:	240-31131	Instrument ID:	A4AG2
Client Matrix:	Water	Prep Batch:	240-30848	Lab File ID:	0124021.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	980 mL
Analysis Date:	01/24/2012 1320			Final Weight/Volume:	2.00 mL
Prep Date:	01/20/2012 0737			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	240-7777-1	Analysis Batch:	240-31304	Instrument ID:	A4AG2
Client Matrix:	Water	Prep Batch:	240-30848	Lab File ID:	0125015.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	970 mL
Analysis Date:	01/25/2012 1141			Final Weight/Volume:	2.00 mL
Prep Date:	01/20/2012 0737			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Acenaphthene	63	57	36 - 110	9	30		
Acenaphthylene	64	58	39 - 110	9	30		
Anthracene	60	55	46 - 110	8	30		
Benzo[a]anthracene	39	34	52 - 110	12	30	F	F
Benzo[b]fluoranthene	25	23	33 - 114	8	30	J F	J F
Benzo[k]fluoranthene	32	24	32 - 121	26	30	J	J F
Benzo[g,h,i]perylene	21	16	34 - 116	24	30	J F	J F
Benzo[a]pyrene	25	16	33 - 110	43	30	J F	J F
Chrysene	42	34	52 - 111	20	30	J F	J F
2-Methylnaphthalene	62	60	35 - 110	3	30		
Dibenz(a,h)anthracene	20	17	35 - 118	16	30	J F	J F
Fluoranthene	53	51	53 - 111	4	30		F
Fluorene	64	59	43 - 110	7	30		
Indeno[1,2,3-cd]pyrene	18	15	36 - 116	16	30	J F	J F
Naphthalene	65	60	32 - 110	8	30		
Phenanthrene	63	57	47 - 110	9	30		
Pyrene	56	51	54 - 115	7	30		F

Surrogate	MS % Rec	MSD % Rec		Acceptance Limits
2-Fluorobiphenyl (Surr)	64	57		28 - 110
2-Fluorophenol (Surr)	75	62		10 - 110
2,4,6-Tribromophenol (Surr)	59	56		22 - 120
Nitrobenzene-d5 (Surr)	74	62		27 - 111
Phenol-d5 (Surr)	73	64		10 - 110
Terphenyl-d14 (Surr)	41	35	X	37 - 119

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Method Blank - Batch: 240-31526

Method: WI-GRO
Preparation: 5030B

Lab Sample ID:	MB 240-31526/5	Analysis Batch:	240-31526	Instrument ID:	O
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	O1012605.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/26/2012 1305	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	01/26/2012 1305			Injection Volume:	
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
WI Gasoline Range Organics (C6-C10)	ND		26	100

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 240-31526

Method: WI-GRO
Preparation: 5030B

LCS Lab Sample ID:	LCS 240-31526/6	Analysis Batch:	240-31526	Instrument ID:	O
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	O1012606.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/26/2012 1339	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	01/26/2012 1339			Injection Volume:	
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 240-31526/18	Analysis Batch:	240-31526	Instrument ID:	O
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	O1012618.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/26/2012 2031	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	01/26/2012 2031			Injection Volume:	
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
WI Gasoline Range Organics (C6-C10)	116	96	80 - 120	19	20		

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-31526

Method: WI-GRO
Preparation: 5030B

MS Lab Sample ID:	240-7777-1	Analysis Batch:	240-31526	Instrument ID:	O
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	O1012614.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/26/2012 1813			Final Weight/Volume:	5 mL
Prep Date:	01/26/2012 1813			Injection Volume:	
Leach Date:	N/A				

MSD Lab Sample ID:	240-7777-1	Analysis Batch:	240-31526	Instrument ID:	O
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	O1012615.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	01/26/2012 1848			Final Weight/Volume:	5 mL
Prep Date:	01/26/2012 1848			Injection Volume:	
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
WI Gasoline Range Organics (C6-C10)	103	112	80 - 120	8	20		

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Method Blank - Batch: 240-30867 **Method: WI-DRO**
Preparation: 3510C

Lab Sample ID:	MB 240-30867/1-A	Analysis Batch:	240-31199	Instrument ID:	A2HP14F
Client Matrix:	Water	Prep Batch:	240-30867	Lab File ID:	P14F0000006.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	01/24/2012 1317	Units:	mg/L	Final Weight/Volume:	1.00 mL
Prep Date:	01/20/2012 0755			Injection Volume:	1 uL
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
WI Diesel Range Organics (C10-C28)	ND		0.016	0.10

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 240-30867 **Method: WI-DRO**
Preparation: 3510C

LCS Lab Sample ID:	LCS 240-30867/2-A	Analysis Batch:	240-31199	Instrument ID:	A2HP14F
Client Matrix:	Water	Prep Batch:	240-30867	Lab File ID:	P14F0000007.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	01/24/2012 1342	Units:	mg/L	Final Weight/Volume:	1.00 mL
Prep Date:	01/20/2012 0755			Injection Volume:	1 uL
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 240-30867/3-A	Analysis Batch:	240-31199	Instrument ID:	A2HP14F
Client Matrix:	Water	Prep Batch:	240-30867	Lab File ID:	P14F0000013.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	01/24/2012 1608	Units:	mg/L	Final Weight/Volume:	1.00 mL
Prep Date:	01/20/2012 0755			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
WI Diesel Range Organics (C10-C28)	85	108	75 - 115	24	20		*

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-30867

Method: WI-DRO
Preparation: 3510C

MS Lab Sample ID:	240-7777-1	Analysis Batch:	240-31199	Instrument ID:	A2HP14F
Client Matrix:	Water	Prep Batch:	240-30867	Lab File ID:	P14F0000009.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	980 mL
Analysis Date:	01/24/2012 1431			Final Weight/Volume:	1.00 mL
Prep Date:	01/20/2012 0755			Injection Volume:	1 uL
Leach Date:	N/A				

MSD Lab Sample ID:	240-7777-1	Analysis Batch:	240-31199	Instrument ID:	A2HP14F
Client Matrix:	Water	Prep Batch:	240-30867	Lab File ID:	P14F0000010.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	970 mL
Analysis Date:	01/24/2012 1455			Final Weight/Volume:	1.00 mL
Prep Date:	01/20/2012 0755			Injection Volume:	1 uL
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
WI Diesel Range Organics (C10-C28)	79	62	60 - 130	22	25		

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Method Blank - Batch: 240-31087

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 240-31087/1-A	Analysis Batch:	240-31467	Instrument ID:	I6
Client Matrix:	Water	Prep Batch:	240-31087	Lab File ID:	I60125A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/25/2012 0932	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	01/23/2012 1147				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Barium	1.11	J	0.67	200
Aluminum	ND		97	200
Cadmium	ND		0.66	5.0
Chromium	ND		2.2	10
Silver	ND		2.2	10
Arsenic	ND		3.2	10
Beryllium	ND		0.46	5.0
Lead	ND		1.9	3.0
Calcium	222	J	130	5000
Cobalt	ND		1.7	7.0
Copper	ND		4.5	25
Iron	ND		81	100
Potassium	202	J	72	5000
Magnesium	228	J	34	5000
Manganese	0.445	J	0.41	15
Sodium	ND		590	5000
Nickel	ND		3.2	40
Antimony	ND		1.8	10
Thallium	ND		4.7	10
Vanadium	ND		0.64	7.0
Zinc	ND		5.0	50

Method Blank - Batch: 240-31087

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	MB 240-31087/1-A	Analysis Batch:	240-31467	Instrument ID:	I6
Client Matrix:	Water	Prep Batch:	240-31087	Lab File ID:	I60125A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/25/2012 2128	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	01/23/2012 1147				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Selenium	ND		4.1	5.0

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Lab Control Sample - Batch: 240-31087

Method: 6010B
Preparation: 3005A
Total Recoverable

Lab Sample ID:	LCS 240-31087/2-A	Analysis Batch:	240-31467	Instrument ID:	I6
Client Matrix:	Water	Prep Batch:	240-31087	Lab File ID:	I60125A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/25/2012 0939	Units:	ug/L	Final Weight/Volume:	50 mL
Prep Date:	01/23/2012 1147				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	2000	1950	97	80 - 120	
Aluminum	2000	1940	97	80 - 120	
Cadmium	50.0	46.6	93	80 - 120	
Chromium	200	185	92	80 - 120	
Silver	50.0	46.4	93	80 - 120	
Arsenic	2000	1830	91	80 - 120	
Beryllium	50.0	46.9	94	80 - 120	
Lead	500	458	92	80 - 120	
Calcium	50000	47000	94	80 - 120	
Selenium	2000	1810	91	80 - 120	
Cobalt	500	458	92	80 - 120	
Copper	250	228	91	80 - 120	
Iron	1000	944	94	80 - 120	
Potassium	50000	48200	96	80 - 120	
Magnesium	50000	45300	91	80 - 120	
Manganese	500	469	94	80 - 120	
Sodium	50000	46000	92	80 - 120	
Nickel	500	465	93	80 - 120	
Antimony	500	464	93	80 - 120	
Thallium	2000	1750	87	80 - 120	
Vanadium	500	459	92	80 - 120	
Zinc	500	476	95	80 - 120	

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-31087

Method: 6010B
Preparation: 3005A
Dissolved

MS Lab Sample ID:	240-7777-1	Analysis Batch:	240-31467	Instrument ID:	I6
Client Matrix:	Water	Prep Batch:	240-31087	Lab File ID:	I60125A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/25/2012 1028			Final Weight/Volume:	50 mL
Prep Date:	01/23/2012 1147				
Leach Date:	N/A				

MSD Lab Sample ID:	240-7777-1	Analysis Batch:	240-31467	Instrument ID:	I6
Client Matrix:	Water	Prep Batch:	240-31087	Lab File ID:	I60125A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	01/25/2012 1034			Final Weight/Volume:	50 mL
Prep Date:	01/23/2012 1147				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Barium	108	109	75 - 125	1	20		
Aluminum	109	110	75 - 125	1	20		
Cadmium	100	101	75 - 125	1	20		
Chromium	101	101	75 - 125	0	20		
Silver	103	104	75 - 125	0	20		
Arsenic	101	102	75 - 125	0	20		
Beryllium	104	104	75 - 125	1	20		
Lead	100	100	75 - 125	0	20		
Calcium	105	105	75 - 125	0	20		
Selenium	99	100	75 - 125	1	20		
Cobalt	99	100	75 - 125	1	20		
Copper	99	100	75 - 125	0	20		
Iron	113	113	75 - 125	0	20		
Potassium	109	110	75 - 125	1	20		
Magnesium	103	103	75 - 125	0	20		
Manganese	102	101	75 - 125	0	20		
Sodium	106	107	75 - 125	0	20		
Nickel	101	102	75 - 125	1	20		
Antimony	104	105	75 - 125	1	20		
Thallium	92	92	75 - 125	0	20		
Vanadium	101	101	75 - 125	0	20		
Zinc	102	103	75 - 125	0	20		

Client: ARCADIS U.S., Inc. Job Number: 240-7777-1

Method Blank - Batch: 240-30868

Method: 7470A
Preparation: 7470A

Lab Sample ID:	MB 240-30868/1-A	Analysis Batch:	240-31390	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-30868	Lab File ID:	H1012512B.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	01/25/2012 1130	Units:	ug/L	Final Weight/Volume:	100 mL
Prep Date:	01/20/2012 1335				
Leach Date:	N/A				

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.12	0.20

Lab Control Sample - Batch: 240-30868

Method: 7470A
Preparation: 7470A

Lab Sample ID:	LCS 240-30868/2-A	Analysis Batch:	240-31390	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-30868	Lab File ID:	H1012512B.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	01/25/2012 1131	Units:	ug/L	Final Weight/Volume:	100 mL
Prep Date:	01/20/2012 1335				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	5.00	4.18	84	81 - 123	

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 240-30868

Method: 7470A
Preparation: 7470A
Dissolved

MS Lab Sample ID:	240-7777-1	Analysis Batch:	240-31390	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-30868	Lab File ID:	H1012512B.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	01/25/2012 1133			Final Weight/Volume:	100 mL
Prep Date:	01/20/2012 1335				
Leach Date:	N/A				

MSD Lab Sample ID:	240-7777-1	Analysis Batch:	240-31390	Instrument ID:	H1
Client Matrix:	Water	Prep Batch:	240-30868	Lab File ID:	H1012512B.PRN
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	01/25/2012 1134			Final Weight/Volume:	100 mL
Prep Date:	01/20/2012 1335				
Leach Date:	N/A				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Mercury	97	98	69 - 134	0	20		

Chain of Custody Record

ENVIS #E200572

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: North Canton
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: ARCADIS	Client Project Manager: Rob Ellis	Site Contact: Mike LeFrancois	Lab Contact: Denise Pohl	COC No: 032266
Address: 430 1st Ave.,N., #720	Telephone: 248-994-2252	Telephone: 612-373-0256	Telephone: 330-966-9789	1 of 1 COCs
City/State/Zip: Minneapolis MN 55401	Email:	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: Ford TCAP	Fedex	TAT if different from below: ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: DE000440.0002.00005	Method of Shipment/Carrier:			
Project Number: 612-339-9434	Shipping/Tracking No:			Job/SDG No.:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	PAH	VOC (8260)	GRO (w/ method)	DRO (w/ method)	TAL metals (Dissolved)	Sample Specific Notes / Special Instructions:
AMW-19	1/17/12	1225		X					1	7			2				2	3	2	2	1	
AMW-19MS		1225							1	7			2									
AMW-19MSD		1225							1	7			2									
AMW-20		1415							1	7			2									
DUP-02		—							1	7			2									
TB-(20120117)-01		—								2								2				
Temp Blank																						

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	ARCADIS	1/18/12 #1425			1430
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TAL	1-18-12 1910			1-18-12
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			Mike Gordon	TAL	1/19/12 - 930

01/31/2012

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 7777
North Canton Facility

Client Arcadis Project TCAP By: Mike Hanlon
Cooler Received on 1/19/12 Opened on 1/19/12 (Signature)
(FedEx) UPS DHL FAS Stetson Client Drop Off TestAmerica Courier Other
TestAmerica Cooler # (Multiple Coolers) Foam Box Client Cooler Other

1. Were custody seals on the outside of the cooler(s)? Yes (No) Intact? Yes No (NA)
   If YES, Quantity Quantity Unsalvageable
   Were custody seals on the outside of cooler(s) signed and dated? Yes No (NA)
   Were custody seals on the bottle(s)? Yes (No)
   If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? (Yes) No
3. Did custody papers accompany the sample(s)? (Yes) No Relinquished by client? (Yes) No
4. Were the custody papers signed in the appropriate place? (Yes) No
5. Packing material used: (Bubble Wrap) (Foam) None Other
6. Cooler temperature upon receipt °C (See back of form for multiple coolers/temps)
   METHOD: (IR) Other
   COOLANT: (Wet Ice) Blue Ice Dry Ice Water None
7. Did all bottles arrive in good condition (Unbroken)? (Yes) No
8. Could all bottle labels be reconciled with the COC? (Yes) No
9. Were sample(s) at the correct pH upon receipt? Yes (No) NA
10. Were correct bottle(s) used for the test(s) indicated? (Yes) No
11. Were air bubbles >6 mm in any VOA vials? Yes (No) NA
12. Sufficient quantity received to perform indicated analyses? (Yes) No
13. Was a trip blank present in the cooler(s)? (Yes) No Were VOAs on the COC? (Yes) No

Contacted PM Date by via Verbal Voice Mail Other
Concerning

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) 6 x 1L AMW-19 were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot# 110410-HNO_3; Sulfuric Acid Lot# 041911-H_2SO_4; Sodium Hydroxide Lot# 121809 -NaOH; (Hydrochloric Acid Lot# 041911-HCl); Sodium Hydroxide and Zinc Acetate Lot#* 100108-*$(CH_3COO)_2ZN$/NaOH.* What time was preservative added to sample(s)?

Client ID	pH	Date	Initials
AMW-19	<2 <2 <2 <2 <2 <2 <2 <2 <2 <2	1/19/12	ZLH
L-20	<2 <2 <2	↓	↓
Dup-02	<2 <2 <2		

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant
A286	0.8	IR	wet ice
L912	1.3		
L676	1.8		
L226	0.2		

Discrepancies Cont'd:

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 240-7777-1

Login Number: 7777

List Source: TestAmerica North Canton

List Number: 1

Creator: Gambone, Mike

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
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	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8/1.3/1.8/0.2
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.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	