

ANALYTICAL REPORT

Job Number: 660-30729-1

Job Description: Citrus County Landfill

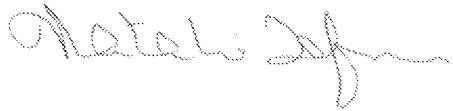
For:

Camp Dresser & McKee Inc
1715 North Westshore Blvd.

Suite 875

Tampa, FL 33607

Attention: Mr. David Rojas



Approved for release.
Natalie Tafuni
Project Manager I
8/13/2009 11:49 AM

Designee for
Hansan Mouslle
Project Manager I
hansan.mouslle@testamericainc.com
08/13/2009
Revision: 1

cc: Mr. Aamod Sonawane

Methods: FDEP, DOH Certification #: E84282, E81005 These test results meet all the requirements of NELAC unless specified in the case narrative. All questions regarding this test report should be directed to the TestAmerica Project Manager who signed this test report. The estimated uncertainty associated with these reported results is available upon request. The results contained in this test report relate only to these samples included herein.

**Job Narrative
660-J30729-1**

Comments

No additional comments.

Receipt

All samples were received in good condition within temperature requirements.

8260B

The laboratory control sample (LCS) for preparation batch 660-82165 exceeded control limits for the following analytes: MIBK and trichlorofluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The data are flagged with J3 qualifiers.

The matrix spike (MS) for preparation batch 660-82165 was biased high for trichlorofluoromethane. Since the samples were ND, and the analyte was biased high, data is reported. The data are flagged with J3 qualifiers.

504.1

The matrix spike (MS) recovery for DBCP for batch 660-82309 was outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

350.1

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 660-82369 were outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

353.2

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 660-82179 were outside control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

This report was revised on 8-13-09: The dissolved metals for samples MW-10 and MW-11 were initially reported as total metals. The sample data was rereported as dissolved metals, and total metals were then run and reported. There was initially no field data reported. It has been added. The duplicate sample should not have been sampled for this job, so those results were cancelled. Also, the synonyms were changed for bromodichloromethane and dibromochloromethane.

6020

The matrix spike duplicate (MSD) recovery for Na for batch 680-145079 was outside of control limits. The associated laboratory control sample (LCS) met acceptance criteria. The data are flagged with J3 qualifiers.

EXECUTIVE SUMMARY - Detections

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-30729-1	MW-11				
Mercury		0.00014 I	0.00020	mg/L	7470A
Color		clear		Color Units	Field Sampling
Field pH		6.91		SU	Field Sampling
Field Temperature		25.5		Degrees C	Field Sampling
Oxygen, Dissolved		1.18		mg/L	Field Sampling
Specific Conductance		360		umhos/cm	Field Sampling
Turbidity		10.20		NTU	Field Sampling
Water Level		99.61		ft	Field Sampling
Chloride		5.0	0.50	mg/L	300.0
Nitrate as N		0.21 I	0.50	mg/L	353.2
Total Dissolved Solids		200	5.0	mg/L	SM 2540C
<i>Dissolved</i>					
Barium		13	5.0	ug/L	6020
Cobalt		1.4	0.50	ug/L	6020
Copper		3.4 I	5.0	ug/L	6020
Nickel		1.5	1.0	ug/L	6020
Sodium		3100	500	ug/L	6020
<i>Total Recoverable</i>					
Arsenic		1.6 I	2.5	ug/L	6020
Barium		18	5.0	ug/L	6020
Cadmium		0.27 I	0.50	ug/L	6020
Cobalt		0.48 I	0.50	ug/L	6020
Copper		1.2 I	5.0	ug/L	6020
Iron		300	100	ug/L	6020
Lead		0.32 I	1.5	ug/L	6020
Nickel		2.8	1.0	ug/L	6020
Silver		6.1	1.0	ug/L	6020
Sodium		2900	500	ug/L	6020
Thallium		0.81 I	1.0	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-30729-2	MW-12				
1,4-Dichlorobenzene		1.4	1.0	ug/L	8260B
Color		clear		Color Units	Field Sampling
Field pH		6.50		SU	Field Sampling
Field Temperature		25.9		Degrees C	Field Sampling
Oxygen, Dissolved		0.31		mg/L	Field Sampling
Specific Conductance		635		umhos/cm	Field Sampling
Turbidity		4.91		NTU	Field Sampling
Water Level		98.34		ft	Field Sampling
Chloride		4.4	0.50	mg/L	300.0
Ammonia (as N)		0.37	0.020	mg/L	350.1
Total Dissolved Solids		340	10	mg/L	SM 2540C
Total Recoverable					
Arsenic		3.7	2.5	ug/L	6020
Barium		18	5.0	ug/L	6020
Cobalt		1.3	0.50	ug/L	6020
Copper		1.1 I	5.0	ug/L	6020
Iron		6800	100	ug/L	6020
Lead		0.25 I	1.5	ug/L	6020
Nickel		1.4	1.0	ug/L	6020
Sodium		2800	500	ug/L	6020
Zinc		8.7 I	20	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
660-30729-3	MW-10				
Benzene		2.5	1.0	ug/L	8260B
Chlorobenzene		0.80 I	1.0	ug/L	8260B
1,4-Dichlorobenzene		7.7	1.0	ug/L	8260B
1,1-Dichloroethane		1.8	1.0	ug/L	8260B
cis-1,2-Dichloroethene		8.7	1.0	ug/L	8260B
Methylene Chloride		6.5	5.0	ug/L	8260B
Tetrachloroethene		0.57 I	1.0	ug/L	8260B
Trichloroethene		0.65 I	1.0	ug/L	8260B
Vinyl chloride		3.9	1.0	ug/L	8260B
Xylenes, Total		8.7	3.0	ug/L	8260B
Mercury		0.00016 I	0.00020	mg/L	7470A
Color		cloudy		Color Units	Field Sampling
Field pH		3.88		SU	Field Sampling
Field Temperature		24.2		Degrees C	Field Sampling
Oxygen, Dissolved		0.43		mg/L	Field Sampling
Specific Conductance		52		umhos/cm	Field Sampling
Turbidity		160		NTU	Field Sampling
Water Level		108		ft	Field Sampling
Chloride		7.0	0.50	mg/L	300.0
Total Dissolved Solids		36	5.0	mg/L	SM 2540C
<i>Dissolved</i>					
Arsenic		2.1 I	2.5	ug/L	6020
Barium		3.8 I	5.0	ug/L	6020
Cobalt		0.64	0.50	ug/L	6020
Iron		3500	100	ug/L	6020
Nickel		2.7	1.0	ug/L	6020
Sodium		4700	500	ug/L	6020
Zinc		11 I	20	ug/L	6020
<i>Total Recoverable</i>					
Arsenic		5.0	2.5	ug/L	6020
Barium		590	5.0	ug/L	6020
Beryllium		0.56	0.50	ug/L	6020
Cadmium		0.41 I	0.50	ug/L	6020
Chromium		32	5.0	ug/L	6020
Cobalt		0.75	0.50	ug/L	6020
Copper		2.2 I	5.0	ug/L	6020
Iron		8400	100	ug/L	6020
Lead		20	1.5	ug/L	6020
Nickel		3.9	1.0	ug/L	6020
Sodium		5700	500	ug/L	6020
Vanadium		8.5 I	10	ug/L	6020
Zinc		13 I	20	ug/L	6020

EXECUTIVE SUMMARY - Detections

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
660-30729-5	EQ BLANK					
<i>Total Recoverable</i> Barium		2.4	I	5.0	ug/L	6020

METHOD SUMMARY

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL TAM	SW846 8260B	
Purge and Trap	TAL TAM		SW846 5030B
EDB, DBCP, and 1,2,3-TCP (GC)	TAL TAM	SW846 8011	
Microextraction	TAL TAM		SW846 8011
Metals (ICP/MS)	TAL SAV	SW846 6020	
Sample Filtration, Field	TAL SAV		FIELD_FLTRD
Preparation, Total Recoverable or Dissolved Metals	TAL SAV		SW846 3005A
Mercury (CVAA)	TAL TAM	SW846 7470A	
Preparation, Mercury	TAL TAM		SW846 7470A
Anions, Ion Chromatography	TAL TAM	MCAWW 300.0	
Nitrogen, Ammonia	TAL TAM	MCAWW 350.1	
Nitrogen, Nitrate-Nitrite	TAL TAM	MCAWW 353.2	
Solids, Total Dissolved (TDS)	TAL TAL	SM SM 2540C	
Field Sampling	TAL TAM	EPA Field Sampling	

Lab References:

TAL SAV = TestAmerica Savannah

TAL TAL = TestAmerica Tallahassee

TAL TAM = TestAmerica Tampa

Method References:

EPA = US Environmental Protection Agency

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

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

METHOD / ANALYST SUMMARY

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Method	Analyst	Analyst ID
SW846 8260B	Carlson, Robyn	RC
SW846 8011	Ballard, James	JB
SW846 6020	Boyuk, Brian	BB
SW846 7470A	Canales, Richard	RC
EPA Field Sampling	Tafuni, Natalie	NT
MCAWW 300.0	Cantin, Stephen C	SCC
MCAWW 350.1	Mathew, Pinky	PM
MCAWW 353.2	Steward, Tiffany	TS
SM SM 2540C	Office, Trey	TO

SAMPLE SUMMARY

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
660-30729-1	MW-11	Water	07/20/2009 1353	07/20/2009 1730
660-30729-2	MW-12	Water	07/20/2009 1515	07/20/2009 1730
660-30729-3	MW-10	Water	07/20/2009 1420	07/20/2009 1730
660-30729-5	Eq Blank	Water	07/20/2009 1057	07/20/2009 1730

SAMPLE RESULTS

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Client Sample ID: MW-11

Lab Sample ID: 660-30729-1

Date Sampled: 07/20/2009 1353

Client Matrix: Water

Date Received: 07/20/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 660-82165	Instrument ID:	BVMG5973
Preparation:	5030B		Lab File ID:	1GG2211.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/22/2009 1159		Final Weight/Volume:	5 mL
Date Prepared:	07/22/2009 1159			

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Acetone	9.9	U	9.9	20
Acrylonitrile	1.2	U	1.2	100
Benzene	0.50	U	0.50	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Bromodichloromethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Dibromochloromethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
trans-1,4-Dichloro-2-butene	2.5	U	2.5	10
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
2-Hexanone	4.4	U	4.4	10
Bromomethane	2.5	U	2.5	5.0
Chloromethane	1.0	U	1.0	4.0
Dibromomethane	0.41	U	0.41	1.0
Methylene Chloride	4.0	U	4.0	5.0
2-Butanone (MEK)	8.4	U	8.4	10
Iodomethane	2.5	U	2.5	5.0
4-Methyl-2-pentanone (MIBK)	3.8	U J3	3.8	10
Styrene	0.98	U	0.98	2.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U J3	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
Vinyl acetate	1.5	U	1.5	10
Vinyl chloride	0.50	U	0.50	1.0

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Client Sample ID: MW-11

Lab Sample ID: 660-30729-1

Client Matrix: Water

Date Sampled: 07/20/2009 1353

Date Received: 07/20/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 660-82165	Instrument ID:	BVMG5973
Preparation:	5030B		Lab File ID:	1GG2211.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/22/2009 1159		Final Weight/Volume:	5 mL
Date Prepared:	07/22/2009 1159			

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Xylenes, Total	0.50	U	0.50	3.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
4-Bromofluorobenzene	100		70 - 130	
Dibromofluoromethane	95		70 - 130	
Toluene-d8 (Surr)	101		70 - 130	

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Client Sample ID: MW-12

Lab Sample ID: 660-30729-2

Date Sampled: 07/20/2009 1515

Client Matrix: Water

Date Received: 07/20/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 660-82165	Instrument ID:	BVMG5973
Preparation:	5030B		Lab File ID:	1GG2212.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/22/2009 1221		Final Weight/Volume:	5 mL
Date Prepared:	07/22/2009 1221			

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Acetone	9.9	U	9.9	20
Acrylonitrile	1.2	U	1.2	100
Benzene	0.50	U	0.50	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Bromodichloromethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Dibromochloromethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,4-Dichlorobenzene	1.4		0.52	1.0
trans-1,4-Dichloro-2-butene	2.5	U	2.5	10
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
2-Hexanone	4.4	U	4.4	10
Bromomethane	2.5	U	2.5	5.0
Chloromethane	1.0	U	1.0	4.0
Dibromomethane	0.41	U	0.41	1.0
Methylene Chloride	4.0	U	4.0	5.0
2-Butanone (MEK)	8.4	U	8.4	10
Iodomethane	2.5	U	2.5	5.0
4-Methyl-2-pentanone (MIBK)	3.8	U J3	3.8	10
Styrene	0.98	U	0.98	2.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U J3	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
Vinyl acetate	1.5	U	1.5	10
Vinyl chloride	0.50	U	0.50	1.0

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Client Sample ID: MW-12

Lab Sample ID: 660-30729-2

Client Matrix: Water

Date Sampled: 07/20/2009 1515

Date Received: 07/20/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 660-82165	Instrument ID:	BVMG5973
Preparation:	5030B		Lab File ID:	1GG2212.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/22/2009 1221		Final Weight/Volume:	5 mL
Date Prepared:	07/22/2009 1221			

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Xylenes, Total	0.50	U	0.50	3.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
4-Bromofluorobenzene	100		70 - 130	
Dibromofluoromethane	93		70 - 130	
Toluene-d8 (Surr)	104		70 - 130	

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Client Sample ID: MW-10

Lab Sample ID: 660-30729-3

Date Sampled: 07/20/2009 1420

Client Matrix: Water

Date Received: 07/20/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 660-82165	Instrument ID:	BVMG5973
Preparation:	5030B		Lab File ID:	1GG2213.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/22/2009 1244		Final Weight/Volume:	5 mL
Date Prepared:	07/22/2009 1244			

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Acetone	9.9	U	9.9	20
Acrylonitrile	1.2	U	1.2	100
Benzene	2.5		0.50	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Bromodichloromethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.80	I	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Dibromochloromethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,4-Dichlorobenzene	7.7		0.52	1.0
trans-1,4-Dichloro-2-butene	2.5	U	2.5	10
1,1-Dichloroethane	1.8		0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	8.7		0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
2-Hexanone	4.4	U	4.4	10
Bromomethane	2.5	U	2.5	5.0
Chloromethane	1.0	U	1.0	4.0
Dibromomethane	0.41	U	0.41	1.0
Methylene Chloride	6.5		4.0	5.0
2-Butanone (MEK)	8.4	U	8.4	10
Iodomethane	2.5	U	2.5	5.0
4-Methyl-2-pentanone (MIBK)	3.8	U J3	3.8	10
Styrene	0.98	U	0.98	2.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.57	I	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.65	I	0.50	1.0
Trichlorofluoromethane	2.5	U J3	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
Vinyl acetate	1.5	U	1.5	10
Vinyl chloride	3.9		0.50	1.0

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Client Sample ID: MW-10

Lab Sample ID: 660-30729-3

Client Matrix: Water

Date Sampled: 07/20/2009 1420

Date Received: 07/20/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 660-82165	Instrument ID:	BVMG5973
Preparation:	5030B		Lab File ID:	1GG2213.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/22/2009 1244		Final Weight/Volume:	5 mL
Date Prepared:	07/22/2009 1244			

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Xylenes, Total	8.7		0.50	3.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
4-Bromofluorobenzene	102		70 - 130	
Dibromofluoromethane	94		70 - 130	
Toluene-d8 (Surr)	102		70 - 130	

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Client Sample ID: Eq Blank

Lab Sample ID: 660-30729-5

Date Sampled: 07/20/2009 1057

Client Matrix: Water

Date Received: 07/20/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method: 8260B

Analysis Batch: 660-82165

Instrument ID: BVMG5973

Preparation: 5030B

Lab File ID: 1GG2215.D

Dilution: 1.0

Initial Weight/Volume: 5 mL

Date Analyzed: 07/22/2009 1329

Final Weight/Volume: 5 mL

Date Prepared: 07/22/2009 1329

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Acetone	9.9	U	9.9	20
Acrylonitrile	1.2	U	1.2	100
Benzene	0.50	U	0.50	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Bromodichloromethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Dibromochloromethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
trans-1,4-Dichloro-2-butene	2.5	U	2.5	10
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
2-Hexanone	4.4	U	4.4	10
Bromomethane	2.5	U	2.5	5.0
Chloromethane	1.0	U	1.0	4.0
Dibromomethane	0.41	U	0.41	1.0
Methylene Chloride	4.0	U	4.0	5.0
2-Butanone (MEK)	8.4	U	8.4	10
Iodomethane	2.5	U	2.5	5.0
4-Methyl-2-pentanone (MIBK)	3.8	U J3	3.8	10
Styrene	0.98	U	0.98	2.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U J3	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
Vinyl acetate	1.5	U	1.5	10
Vinyl chloride	0.50	U	0.50	1.0

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Client Sample ID: Eq Blank

Lab Sample ID: 660-30729-5

Client Matrix: Water

Date Sampled: 07/20/2009 1057

Date Received: 07/20/2009 1730

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 660-82165	Instrument ID:	BVMG5973
Preparation:	5030B		Lab File ID:	1GG2215.D
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/22/2009 1329		Final Weight/Volume:	5 mL
Date Prepared:	07/22/2009 1329			

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Xylenes, Total	0.50	U	0.50	3.0
Surrogate	%Rec	Qualifier	Acceptance Limits	
4-Bromofluorobenzene	99		70 - 130	
Dibromofluoromethane	92		70 - 130	
Toluene-d8 (Surr)	103		70 - 130	

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Client Sample ID: MW-11

Lab Sample ID: 660-30729-1

Client Matrix: Water

Date Sampled: 07/20/2009 1353

Date Received: 07/20/2009 1730

8011 EDB, DBCP, and 1,2,3-TCP (GC)

Method:	8011	Analysis Batch:	660-82476	Instrument ID:	BSGU
Preparation:	8011	Prep Batch:	660-82309	Initial Weight/Volume:	36.5906 mL
Dilution:	1.0			Final Weight/Volume:	2.0 mL
Date Analyzed:	07/23/2009 1710			Injection Volume:	4 uL
Date Prepared:	07/23/2009 1230			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dibromo-3-Chloropropane	0.0096	U J3	0.0096	0.019
Ethylene Dibromide	0.0096	U	0.0096	0.019

Surrogate	%Rec	Qualifier	Acceptance Limits
1,1,1,2-Tetrachloroethane	72		60 - 140

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Client Sample ID: MW-12

Lab Sample ID: 660-30729-2

Client Matrix: Water

Date Sampled: 07/20/2009 1515

Date Received: 07/20/2009 1730

8011 EDB, DBCP, and 1,2,3-TCP (GC)

Method:	8011	Analysis Batch:	660-82476	Instrument ID:	BSGU
Preparation:	8011	Prep Batch:	660-82309	Initial Weight/Volume:	36.6231 mL
Dilution:	1.0			Final Weight/Volume:	2.0 mL
Date Analyzed:	07/23/2009 1752			Injection Volume:	4 uL
Date Prepared:	07/23/2009 1230			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dibromo-3-Chloropropane	0.0096	U	0.0096	0.019
Ethylene Dibromide	0.0096	U	0.0096	0.019

Surrogate	%Rec	Qualifier	Acceptance Limits
1,1,1,2-Tetrachloroethane	82		60 - 140

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Client Sample ID: MW-10

Lab Sample ID: 660-30729-3

Date Sampled: 07/20/2009 1420

Client Matrix: Water

Date Received: 07/20/2009 1730

8011 EDB, DBCP, and 1,2,3-TCP (GC)

Method:	8011	Analysis Batch: 660-82476	Instrument ID:	BSGU
Preparation:	8011	Prep Batch: 660-82309	Initial Weight/Volume:	37.4846 mL
Dilution:	1.0		Final Weight/Volume:	2.0 mL
Date Analyzed:	07/23/2009 1834		Injection Volume:	4 uL
Date Prepared:	07/23/2009 1230		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dibromo-3-Chloropropane	0.0093	U	0.0093	0.019
Ethylene Dibromide	0.0093	U	0.0093	0.019

Surrogate	%Rec	Qualifier	Acceptance Limits
1,1,1,2-Tetrachloroethane	63		60 - 140

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Client Sample ID: Eq Blank

Lab Sample ID: 660-30729-5

Date Sampled: 07/20/2009 1057

Client Matrix: Water

Date Received: 07/20/2009 1730

8011 EDB, DBCP, and 1,2,3-TCP (GC)

Method:	8011	Analysis Batch: 660-82476	Instrument ID:	BSGU
Preparation:	8011	Prep Batch: 660-82309	Initial Weight/Volume:	36.9370 mL
Dilution:	1.0		Final Weight/Volume:	2.0 mL
Date Analyzed:	07/23/2009 1915		Injection Volume:	4 uL
Date Prepared:	07/23/2009 1230		Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	PQL
1,2-Dibromo-3-Chloropropane	0.0095	U	0.0095	0.019
Ethylene Dibromide	0.0095	U	0.0095	0.019
Surrogate	%Rec	Qualifier	Acceptance Limits	
1,1,1,2-Tetrachloroethane	73		60 - 140	

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Client Sample ID: MW-11

Lab Sample ID: 660-30729-1

Client Matrix: Water

Date Sampled: 07/20/2009 1353

Date Received: 07/20/2009 1730

6020 Metals (ICP/MS)-Total Recoverable

Method:	6020	Analysis Batch:	680-145212	Instrument ID:	ICPMSA
Preparation:	3005A	Prep Batch:	680-145079	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	08/11/2009 1623			Final Weight/Volume:	250 mL
Date Prepared:	08/11/2009 1004				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Antimony	2.3	U	2.3	5.0
Arsenic	1.6	I	1.3	2.5
Barium	18		1.3	5.0
Beryllium	0.25	U	0.25	0.50
Cadmium	0.27	I	0.095	0.50
Chromium	2.5	U	2.5	5.0
Cobalt	0.48	I	0.15	0.50
Copper	1.2	I	1.1	5.0
Iron	300		33	100
Lead	0.32	I	0.20	1.5
Nickel	2.8		0.50	1.0
Selenium	1.0	U	1.0	2.5
Silver	6.1		0.25	1.0
Sodium	2900		250	500
Thallium	0.81	I	0.50	1.0
Vanadium	3.8	U	3.8	10
Zinc	8.3	U	8.3	20

6020 Metals (ICP/MS)-Dissolved

Method:	6020	Analysis Batch:	680-143770	Instrument ID:	ICPMSA
Preparation:	3005A	Prep Batch:	680-143550	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/25/2009 0028			Final Weight/Volume:	250 mL
Date Prepared:	07/23/2009 1215				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Antimony	2.3	U	2.3	5.0
Arsenic	1.3	U	1.3	2.5
Barium	13		1.3	5.0
Beryllium	0.25	U	0.25	0.50
Cadmium	0.095	U	0.095	0.50
Chromium	2.5	U	2.5	5.0
Cobalt	1.4		0.15	0.50
Copper	3.4	I	1.1	5.0
Iron	33	U	33	100
Lead	0.20	U	0.20	1.5
Nickel	1.5		0.50	1.0
Selenium	1.0	U	1.0	2.5
Silver	0.25	U	0.25	1.0
Sodium	3100		250	500
Thallium	0.50	U	0.50	1.0
Vanadium	3.8	U	3.8	10
Zinc	8.3	U	8.3	20

7470A Mercury (CVAA)

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Client Sample ID: MW-11

Lab Sample ID: 660-30729-1

Client Matrix: Water

Date Sampled: 07/20/2009 1353

Date Received: 07/20/2009 1730

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 660-82308	Instrument ID:	PS200II
Preparation:	7470A	Prep Batch: 660-82248	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	25 mL
Date Analyzed:	07/23/2009 1618		Final Weight/Volume:	25 mL
Date Prepared:	07/23/2009 1144			

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.00014	I	0.000072	0.00020

Method:	7470A	Analysis Batch: 660-83098	Instrument ID:	PS200II
Preparation:	7470A	Prep Batch: 660-83056	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	25 mL
Date Analyzed:	08/11/2009 1515		Final Weight/Volume:	25 mL
Date Prepared:	08/11/2009 1113			

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Client Sample ID: MW-12

Lab Sample ID: 660-30729-2

Client Matrix: Water

Date Sampled: 07/20/2009 1515

Date Received: 07/20/2009 1730

6020 Metals (ICP/MS)-Total Recoverable

Method:	6020	Analysis Batch:	680-143770	Instrument ID:	ICPMSA
Preparation:	3005A	Prep Batch:	680-143550	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/25/2009 0102			Final Weight/Volume:	250 mL
Date Prepared:	07/23/2009 1215				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Antimony	2.3	U	2.3	5.0
Arsenic	3.7		1.3	2.5
Barium	18		1.3	5.0
Beryllium	0.25	U	0.25	0.50
Cadmium	0.095	U	0.095	0.50
Chromium	2.5	U	2.5	5.0
Cobalt	1.3		0.15	0.50
Copper	1.1	I	1.1	5.0
Iron	6800		33	100
Lead	0.25	I	0.20	1.5
Nickel	1.4		0.50	1.0
Selenium	1.0	U	1.0	2.5
Silver	0.25	U	0.25	1.0
Sodium	2800		250	500
Thallium	0.50	U	0.50	1.0
Vanadium	3.8	U	3.8	10
Zinc	8.7	I	8.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch:	660-82308	Instrument ID:	PS200II
Preparation:	7470A	Prep Batch:	660-82248	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	25 mL
Date Analyzed:	07/23/2009 1620			Final Weight/Volume:	25 mL
Date Prepared:	07/23/2009 1144				

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Client Sample ID: MW-10

Lab Sample ID: 660-30729-3

Date Sampled: 07/20/2009 1420

Client Matrix: Water

Date Received: 07/20/2009 1730

6020 Metals (ICP/MS)-Total Recoverable

Method:	6020	Analysis Batch: 680-145212	Instrument ID:	ICPMSA
Preparation:	3005A	Prep Batch: 680-145079	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	08/11/2009 1630		Final Weight/Volume:	250 mL
Date Prepared:	08/11/2009 1004			

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Antimony	2.3	U	2.3	5.0
Arsenic	5.0		1.3	2.5
Barium	590		1.3	5.0
Beryllium	0.56		0.25	0.50
Cadmium	0.41	I	0.095	0.50
Chromium	32		2.5	5.0
Cobalt	0.75		0.15	0.50
Copper	2.2	I	1.1	5.0
Iron	8400		33	100
Lead	20		0.20	1.5
Nickel	3.9		0.50	1.0
Selenium	1.0	U	1.0	2.5
Silver	0.25	U	0.25	1.0
Sodium	5700		250	500
Thallium	0.50	U	0.50	1.0
Vanadium	8.5	I	3.8	10
Zinc	13	I	8.3	20

6020 Metals (ICP/MS)-Dissolved

Method:	6020	Analysis Batch: 680-143770	Instrument ID:	ICPMSA
Preparation:	3005A	Prep Batch: 680-143550	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	50 mL
Date Analyzed:	07/25/2009 0108		Final Weight/Volume:	250 mL
Date Prepared:	07/23/2009 1215			

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Antimony	2.3	U	2.3	5.0
Arsenic	2.1	I	1.3	2.5
Barium	3.8	I	1.3	5.0
Beryllium	0.25	U	0.25	0.50
Cadmium	0.095	U	0.095	0.50
Chromium	2.5	U	2.5	5.0
Cobalt	0.64		0.15	0.50
Copper	1.1	U	1.1	5.0
Iron	3500		33	100
Lead	0.20	U	0.20	1.5
Nickel	2.7		0.50	1.0
Selenium	1.0	U	1.0	2.5
Silver	0.25	U	0.25	1.0
Sodium	4700		250	500
Thallium	0.50	U	0.50	1.0
Vanadium	3.8	U	3.8	10
Zinc	11	I	8.3	20

7470A Mercury (CVAA)

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Client Sample ID: MW-10

Lab Sample ID: 660-30729-3

Client Matrix: Water

Date Sampled: 07/20/2009 1420

Date Received: 07/20/2009 1730

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch: 660-82308	Instrument ID:	PS200II
Preparation:	7470A	Prep Batch: 660-82248	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	25 mL
Date Analyzed:	07/23/2009 1622		Final Weight/Volume:	25 mL
Date Prepared:	07/23/2009 1144			

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.00016	I	0.000072	0.00020

Method:	7470A	Analysis Batch: 660-83098	Instrument ID:	PS200II
Preparation:	7470A	Prep Batch: 660-83056	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	25 mL
Date Analyzed:	08/11/2009 1517		Final Weight/Volume:	25 mL
Date Prepared:	08/11/2009 1113			

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Client Sample ID: Eq Blank

Lab Sample ID: 660-30729-5

Client Matrix: Water

Date Sampled: 07/20/2009 1057

Date Received: 07/20/2009 1730

6020 Metals (ICP/MS)-Total Recoverable

Method:	6020	Analysis Batch:	680-143770	Instrument ID:	ICPMSA
Preparation:	3005A	Prep Batch:	680-143550	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Date Analyzed:	07/25/2009 0136			Final Weight/Volume:	250 mL
Date Prepared:	07/23/2009 1215				

Analyte	Result (ug/L)	Qualifier	MDL	PQL
Antimony	2.3	U	2.3	5.0
Arsenic	1.3	U	1.3	2.5
Barium	2.4	I	1.3	5.0
Beryllium	0.25	U	0.25	0.50
Cadmium	0.095	U	0.095	0.50
Chromium	2.5	U	2.5	5.0
Cobalt	0.15	U	0.15	0.50
Copper	1.1	U	1.1	5.0
Iron	33	U	33	100
Lead	0.20	U	0.20	1.5
Nickel	0.50	U	0.50	1.0
Selenium	1.0	U	1.0	2.5
Silver	0.25	U	0.25	1.0
Sodium	250	U	250	500
Thallium	0.50	U	0.50	1.0
Vanadium	3.8	U	3.8	10
Zinc	8.3	U	8.3	20

7470A Mercury (CVAA)

Method:	7470A	Analysis Batch:	660-82308	Instrument ID:	PS200II
Preparation:	7470A	Prep Batch:	660-82248	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	25 mL
Date Analyzed:	07/23/2009 1627			Final Weight/Volume:	25 mL
Date Prepared:	07/23/2009 1146				

Analyte	Result (mg/L)	Qualifier	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

General Chemistry

Client Sample ID: MW-11

Lab Sample ID: 660-30729-1

Date Sampled: 07/20/2009 1353

Client Matrix: Water

Date Received: 07/20/2009 1730

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Ammonia (as N)	0.010	U J3	mg/L	0.010	0.020	1.0	350.1
	Analysis Batch: 660-82369	Date Analyzed: 07/24/2009	1522				
Chloride	5.0		mg/L	0.20	0.50	1.0	300.0
	Analysis Batch: 660-82656	Date Analyzed: 07/30/2009	1509				
Total Dissolved Solids	200		mg/L	5.0	5.0	1.0	SM 2540C
	Analysis Batch: 640-58941	Date Analyzed: 07/23/2009	1147				
Nitrate as N	0.21	I	mg/L	0.10	0.50	1.0	353.2
	Analysis Batch: 660-82179	Date Analyzed: 07/21/2009	1524				

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

General Chemistry

Client Sample ID: MW-12

Lab Sample ID: 660-30729-2

Date Sampled: 07/20/2009 1515

Client Matrix: Water

Date Received: 07/20/2009 1730

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Ammonia (as N)	0.37		mg/L	0.010	0.020	1.0	350.1
	Analysis Batch: 660-82369	Date Analyzed: 07/24/2009	1525				
Chloride	4.4		mg/L	0.20	0.50	1.0	300.0
	Analysis Batch: 660-82656	Date Analyzed: 07/30/2009	1542				
Total Dissolved Solids	340		mg/L	10	10	1.0	SM 2540C
	Analysis Batch: 640-58941	Date Analyzed: 07/23/2009	1147				
Nitrate as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
	Analysis Batch: 660-82179	Date Analyzed: 07/21/2009	1524				

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

General Chemistry

Client Sample ID: MW-10

Lab Sample ID: 660-30729-3

Date Sampled: 07/20/2009 1420

Client Matrix: Water

Date Received: 07/20/2009 1730

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Ammonia (as N)	0.010	U	mg/L	0.010	0.020	1.0	350.1
Analysis Batch: 660-82369 Date Analyzed: 07/24/2009 1527							
Chloride	7.0		mg/L	0.20	0.50	1.0	300.0
Analysis Batch: 660-82718 Date Analyzed: 07/31/2009 1806							
Total Dissolved Solids	36		mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 640-58941 Date Analyzed: 07/23/2009 1147							
Nitrate as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Analysis Batch: 660-82179 Date Analyzed: 07/21/2009 1524							

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

General Chemistry

Client Sample ID: Eq Blank

Lab Sample ID: 660-30729-5

Date Sampled: 07/20/2009 1057

Client Matrix: Water

Date Received: 07/20/2009 1730

Analyte	Result	Qual	Units	MDL	PQL	Dil	Method
Ammonia (as N)	0.010	U	mg/L	0.010	0.020	1.0	350.1
Analysis Batch: 660-82369 Date Analyzed: 07/24/2009 1529							
Chloride	0.20	U	mg/L	0.20	0.50	1.0	300.0
Analysis Batch: 660-82718 Date Analyzed: 07/31/2009 1911							
Total Dissolved Solids	5.0	U	mg/L	5.0	5.0	1.0	SM 2540C
Analysis Batch: 640-58941 Date Analyzed: 07/23/2009 1147							
Nitrate as N	0.10	U	mg/L	0.10	0.50	1.0	353.2
Analysis Batch: 660-82179 Date Analyzed: 07/21/2009 1524							

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Field Service / Mobile Lab

Client Sample ID: MW-11

Lab Sample ID: 660-30729-1

Client Matrix: Water

Date Sampled: 07/20/2009 1353

Date Received: 07/20/2009 1730

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed	Date Prepared
Color	clear		Color Units	1.0	Field Sampling	660-82788	07/20/2009	1353
Field pH	6.91		SU	1.0	Field Sampling	660-82788	07/20/2009	1353
Field Temperature	25.5		Degrees C	1.0	Field Sampling	660-82788	07/20/2009	1353
Oxygen, Dissolved	1.18		mg/L	1.0	Field Sampling	660-82788	07/20/2009	1353
Specific Conductance	360		umhos/cm	1.0	Field Sampling	660-82788	07/20/2009	1353
Turbidity	10.20		NTU	1.0	Field Sampling	660-82788	07/20/2009	1353
Water Level	99.61		ft	1.0	Field Sampling	660-82788	07/20/2009	1353

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Field Service / Mobile Lab

Client Sample ID: MW-12

Lab Sample ID: 660-30729-2

Client Matrix: Water

Date Sampled: 07/20/2009 1515

Date Received: 07/20/2009 1730

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed	Date Prepared
Color	clear		Color Units	1.0	Field Sampling	660-82788	07/20/2009 1515	
Field pH	6.50		SU	1.0	Field Sampling	660-82788	07/20/2009 1515	
Field Temperature	25.9		Degrees C	1.0	Field Sampling	660-82788	07/20/2009 1515	
Oxygen, Dissolved	0.31		mg/L	1.0	Field Sampling	660-82788	07/20/2009 1515	
Specific Conductance	635		umhos/cm	1.0	Field Sampling	660-82788	07/20/2009 1515	
Turbidity	4.91		NTU	1.0	Field Sampling	660-82788	07/20/2009 1515	
Water Level	98.34		ft	1.0	Field Sampling	660-82788	07/20/2009 1515	

Analytical Data

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Field Service / Mobile Lab

Client Sample ID: MW-10

Lab Sample ID: 660-30729-3

Client Matrix: Water

Date Sampled: 07/20/2009 1420

Date Received: 07/20/2009 1730

Analyte	Result	Qual	Units	Dil	Method	Analysis Batch	Date Analyzed	Date Prepared
Color	cloudy		Color Units	1.0	Field Sampling	660-82788	07/20/2009 1420	
Field pH	3.88		SU	1.0	Field Sampling	660-82788	07/20/2009 1420	
Field Temperature	24.2		Degrees C	1.0	Field Sampling	660-82788	07/20/2009 1420	
Oxygen, Dissolved	0.43		mg/L	1.0	Field Sampling	660-82788	07/20/2009 1420	
Specific Conductance	52		umhos/cm	1.0	Field Sampling	660-82788	07/20/2009 1420	
Turbidity	160		NTU	1.0	Field Sampling	660-82788	07/20/2009 1420	
Water Level	108		ft	1.0	Field Sampling	660-82788	07/20/2009 1420	

DATA REPORTING QUALIFIERS

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Lab Section	Qualifier	Description
GC/MS VOA		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
GC Semi VOA		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
Metals		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
General Chemistry		
	J3	Estimated value; value may not be accurate. Spike recovery or RPD outside of criteria.
	U	Indicates that the compound was analyzed for but not detected.
	I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

QUALITY CONTROL RESULTS

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
660-30729-1	MW-11	100	95	101
660-30729-2	MW-12	100	93	104
660-30729-3	MW-10	102	94	102
660-30729-5	Eq Blank	99	92	103
MB 660-82165/3		99	91	102
LCS 660-82165/2		101	96	102
660-30730-B-1 MS		102	94	102
660-30730-D-2 DU		100	95	102

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	70-130
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Surrogate Recovery Report

8011 EDB, DBCP, and 1,2,3-TCP (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	TCEA1 %Rec
660-30729-1	MW-11	72
660-30729-2	MW-12	82
660-30729-3	MW-10	63
660-30729-5	Eq Blank	73
MB 660-82309/1-A		85
LCS 660-82309/2-A		83
660-30729-1 MS	MW-11 MS	61

Surrogate	Acceptance Limits
TCEA = 1,1,1,2-Tetrachloroethane	60-140

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Method Blank - Batch: 660-82165

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 660-82165/3

Analysis Batch: 660-82165

Instrument ID: BVMG GC/MS

Client Matrix: Water

Prep Batch: N/A

Lab File ID: 1GG2209.D

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 5 mL

Date Analyzed: 07/22/2009 1114

Final Weight/Volume: 5 mL

Date Prepared: 07/22/2009 1114

Analyte	Result	Qual	MDL	PQL
Acetone	9.9	U	9.9	20
Acrylonitrile	1.2	U	1.2	100
Benzene	0.50	U	0.50	1.0
Chlorobromomethane	0.58	U	0.58	1.0
Bromodichloromethane	0.35	U	0.35	1.0
Bromoform	0.58	U	0.58	1.0
Carbon disulfide	0.85	U	0.85	1.0
Carbon tetrachloride	0.42	U	0.42	1.0
Chlorobenzene	0.63	U	0.63	1.0
Chloroethane	2.5	U	2.5	5.0
Chloroform	0.90	U	0.90	1.0
Dibromochloromethane	0.34	U	0.34	1.0
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	5.0
Ethylene Dibromide	0.50	U	0.50	1.0
1,2-Dichlorobenzene	0.44	U	0.44	1.0
1,4-Dichlorobenzene	0.52	U	0.52	1.0
trans-1,4-Dichloro-2-butene	2.5	U	2.5	10
1,1-Dichloroethane	0.52	U	0.52	1.0
1,2-Dichloroethane	0.57	U	0.57	1.0
1,1-Dichloroethene	0.45	U	0.45	1.0
cis-1,2-Dichloroethene	0.65	U	0.65	1.0
trans-1,2-Dichloroethene	0.44	U	0.44	1.0
1,2-Dichloropropane	0.52	U	0.52	1.0
cis-1,3-Dichloropropene	0.14	U	0.14	1.0
trans-1,3-Dichloropropene	0.14	U	0.14	1.0
Ethylbenzene	0.44	U	0.44	1.0
2-Hexanone	4.4	U	4.4	10
Bromomethane	2.5	U	2.5	5.0
Chloromethane	1.0	U	1.0	4.0
Dibromomethane	0.41	U	0.41	1.0
Methylene Chloride	4.0	U	4.0	5.0
2-Butanone (MEK)	8.4	U	8.4	10
Iodomethane	2.5	U	2.5	5.0
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	10
Styrene	0.98	U	0.98	2.0
1,1,1,2-Tetrachloroethane	0.63	U	0.63	1.0
1,1,2,2-Tetrachloroethane	0.15	U	0.15	1.0
Tetrachloroethene	0.50	U	0.50	1.0
Toluene	0.51	U	0.51	1.0
1,1,1-Trichloroethane	0.46	U	0.46	1.0
1,1,2-Trichloroethane	0.47	U	0.47	1.0

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Method Blank - Batch: 660-82165

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 660-82165/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2009 1114
Date Prepared: 07/22/2009 1114

Analysis Batch: 660-82165
Prep Batch: N/A
Units: ug/L

Instrument ID: BVMG GC/MS
Lab File ID: 1GG2209.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Trichloroethene	0.50	U	0.50	1.0
Trichlorofluoromethane	2.5	U	2.5	5.0
1,2,3-Trichloropropane	0.18	U	0.18	1.0
Vinyl acetate	1.5	U	1.5	10
Vinyl chloride	0.50	U	0.50	1.0
Xylenes, Total	0.50	U	0.50	3.0
Surrogate	% Rec	Acceptance Limits		
4-Bromofluorobenzene	99	70 - 130		
Dibromofluoromethane	91	70 - 130		
Toluene-d8 (Surr)	102	70 - 130		

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Lab Control Sample - Batch: 660-82165

Method: 8260B

Preparation: 5030B

Lab Sample ID: LCS 660-82165/2

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 07/22/2009 0944

Date Prepared: 07/22/2009 0944

Analysis Batch: 660-82165

Prep Batch: N/A

Units: ug/L

Instrument ID: BVMG GC/MS

Lab File ID: 1GG2205.D

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	100	134	134	62 - 142	
Acrylonitrile	200	245	122	10 - 183	
Benzene	20.0	24.3	122	64 - 140	
Chlorobromomethane	20.0	22.1	111	59 - 130	
Bromodichloromethane	20.0	24.1	121	70 - 130	
Bromoform	20.0	20.9	105	65 - 130	
Carbon disulfide	10.0	12.5	125	30 - 184	
Carbon tetrachloride	20.0	25.7	129	53 - 145	
Chlorobenzene	20.0	22.2	111	70 - 130	
Chloroethane	20.0	26.9	134	39 - 174	
Chloroform	20.0	23.1	116	59 - 130	
Dibromochloromethane	20.0	23.4	117	70 - 130	
1,2-Dibromo-3-Chloropropane	20.0	17.7	89	52 - 130	
Ethylene Dibromide	20.0	22.2	111	65 - 130	
1,2-Dichlorobenzene	20.0	20.9	105	70 - 130	
1,4-Dichlorobenzene	20.0	22.3	112	70 - 130	
trans-1,4-Dichloro-2-butene	20.0	21.1	105	70 - 130	
1,1-Dichloroethane	20.0	23.3	116	60 - 132	
1,2-Dichloroethane	20.0	24.8	124	70 - 130	
1,1-Dichloroethene	20.0	24.6	123	51 - 157	
cis-1,2-Dichloroethene	20.0	22.5	112	61 - 130	
trans-1,2-Dichloroethene	20.0	25.0	125	55 - 145	
1,2-Dichloropropane	20.0	24.6	123	70 - 130	
cis-1,3-Dichloropropene	20.0	24.6	123	70 - 130	
trans-1,3-Dichloropropene	20.0	23.2	116	62 - 130	
Ethylbenzene	20.0	24.0	120	69 - 131	
2-Hexanone	100	140	140	57 - 148	
Bromomethane	20.0	21.3	107	14 - 184	
Chloromethane	20.0	21.4	107	35 - 153	
Dibromomethane	20.0	21.6	108	70 - 130	
Methylene Chloride	20.0	22.6	113	57 - 130	
2-Butanone (MEK)	100	135	135	63 - 140	
Iodomethane	20.0	14.5	73	70 - 130	
4-Methyl-2-pentanone (MIBK)	100	139	139	64 - 137	J3
Styrene	20.0	23.5	118	62 - 136	
1,1,1,2-Tetrachloroethane	20.0	22.4	112	70 - 130	
1,1,2,2-Tetrachloroethane	20.0	21.9	110	67 - 130	
Tetrachloroethene	20.0	22.7	113	47 - 143	
Toluene	20.0	25.0	125	70 - 131	
1,1,1-Trichloroethane	20.0	24.7	123	57 - 135	
1,1,2-Trichloroethane	20.0	22.4	112	69 - 130	

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Lab Control Sample - Batch: 660-82165

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 660-82165/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2009 0944
Date Prepared: 07/22/2009 0944

Analysis Batch: 660-82165
Prep Batch: N/A
Units: ug/L

Instrument ID: BVMG GC/MS
Lab File ID: 1GG2205.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Trichloroethene	20.0	24.1	120	59 - 142	J3
Trichlorofluoromethane	20.0	30.0	150	62 - 147	
1,2,3-Trichloropropane	20.0	20.3	102	62 - 130	
Vinyl acetate	30.4	24.6	81	10 - 166	
Vinyl chloride	20.0	23.5	117	48 - 147	

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Matrix Spike - Batch: 660-82165

Method: 8260B

Preparation: 5030B

Lab Sample ID: 660-30730-B-1 MS

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 07/22/2009 1650

Date Prepared: 07/22/2009 1650

Analysis Batch: 660-82165

Prep Batch: N/A

Units: ug/L

Instrument ID: BVMG GC/MS

Lab File ID: 1GG2224.D

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	9.9 U	100	120	120	62 - 142	
Acrylonitrile	1.2 U	200	219	110	10 - 183	
Benzene	0.50 U	20.0	22.0	110	64 - 140	
Chlorobromomethane	0.58 U	20.0	19.2	96	59 - 130	
Bromodichloromethane	0.35 U	20.0	21.5	107	70 - 130	
Bromoform	0.58 U	20.0	19.2	96	65 - 130	
Carbon disulfide	0.85 U	10.0	9.96	100	30 - 184	
Carbon tetrachloride	0.42 U	20.0	23.0	115	53 - 145	
Chlorobenzene	0.63 U	20.0	20.7	103	70 - 130	
Chloroethane	2.5 U	20.0	27.2	136	39 - 174	
Chloroform	0.90 U	20.0	20.6	103	59 - 130	
Dibromochloromethane	0.34 U	20.0	21.0	105	70 - 130	
1,2-Dibromo-3-Chloropropane	2.5 U	20.0	16.8	84	52 - 130	
Ethylene Dibromide	0.50 U	20.0	19.8	99	65 - 130	
1,2-Dichlorobenzene	0.44 U	20.0	19.1	96	70 - 130	
1,4-Dichlorobenzene	0.52 U	20.0	20.3	102	70 - 130	
trans-1,4-Dichloro-2-butene	2.5 U	20.0	19.7	99	70 - 130	
1,1-Dichloroethane	0.52 U	20.0	20.5	102	60 - 132	
1,2-Dichloroethane	0.57 U	20.0	22.5	112	70 - 130	
1,1-Dichloroethene	0.45 U	20.0	21.0	105	51 - 157	
cis-1,2-Dichloroethene	0.78 I	20.0	20.1	97	61 - 130	
trans-1,2-Dichloroethene	0.44 U	20.0	21.5	108	55 - 145	
1,2-Dichloropropane	0.52 U	20.0	21.5	107	70 - 130	
cis-1,3-Dichloropropene	0.14 U	20.0	20.8	104	70 - 130	
trans-1,3-Dichloropropene	0.14 U	20.0	19.7	99	62 - 130	
Ethylbenzene	0.44 U	20.0	22.2	111	69 - 131	
2-Hexanone	4.4 U	100	126	126	57 - 148	
Bromomethane	2.5 U	20.0	20.1	101	14 - 184	
Chloromethane	1.0 U	20.0	20.4	102	35 - 153	
Dibromomethane	0.41 U	20.0	19.8	99	70 - 130	
Methylene Chloride	4.0 U	20.0	20.1	101	57 - 130	
2-Butanone (MEK)	8.4 U	100	117	117	63 - 140	
Iodomethane	2.5 U	20.0	12.2	61	70 - 130	J3
4-Methyl-2-pentanone (MIBK)	3.8 U	100	129	129	64 - 137	
Styrene	0.98 U	20.0	21.5	108	62 - 136	
1,1,1,2-Tetrachloroethane	0.63 U	20.0	20.7	103	70 - 130	

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Matrix Spike - Batch: 660-82165

Method: 8260B

Preparation: 5030B

Lab Sample ID: 660-30730-B-1 MS

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 07/22/2009 1650

Date Prepared: 07/22/2009 1650

Analysis Batch: 660-82165

Prep Batch: N/A

Units: ug/L

Instrument ID: BVMG GC/MS

Lab File ID: 1GG2224.D

Initial Weight/Volume: 5 mL

Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
1,1,2,2-Tetrachloroethane	0.15	U	20.0	20.0	100	67 - 130	
Tetrachloroethene	0.99	I	20.0	22.0	105	47 - 143	
Toluene	0.51	U	20.0	22.7	114	70 - 131	
1,1,1-Trichloroethane	0.46	U	20.0	21.2	106	57 - 135	
1,1,2-Trichloroethane	0.47	U	20.0	20.6	103	69 - 130	
Trichloroethene	0.50	U	20.0	20.9	104	59 - 142	
Trichlorofluoromethane	2.5	U	20.0	30.0	150	62 - 147	J3
1,2,3-Trichloropropane	0.18	U	20.0	19.2	96	62 - 130	
Vinyl acetate	1.5	U	30.4	21.9	72	10 - 166	
Vinyl chloride	0.91	I	20.0	24.3	117	48 - 147	

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Duplicate - Batch: 660-82165

Method: 8260B
Preparation: 5030B

Lab Sample ID: 660-30730-D-2 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2009 1436
Date Prepared: 07/22/2009 1436

Analysis Batch: 660-82165
Prep Batch: N/A
Units: ug/L

Instrument ID: BVMG GC/MS
Lab File ID: 1GG2218.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
Acetone	9.9	U	9.9	NC	30	U
Acrylonitrile	1.2	U	1.2	NC	30	U
Benzene	0.50	U	0.50	NC	30	U
Chlorobromomethane	0.58	U	0.58	NC	30	U
Bromodichloromethane	0.35	U	0.35	NC	30	U
Bromoform	0.58	U	0.58	NC	30	U
Carbon disulfide	0.85	U	0.85	NC	30	U
Carbon tetrachloride	0.42	U	0.42	NC	30	U
Chlorobenzene	0.63	U	0.63	NC	30	U
Chloroethane	2.5	U	2.5	NC	30	U
Chloroform	0.91	I	0.90	NC	30	U
Dibromochloromethane	0.34	U	0.34	NC	30	U
1,2-Dibromo-3-Chloropropane	2.5	U	2.5	NC	30	U
Ethylene Dibromide	0.50	U	0.50	NC	30	U
1,2-Dichlorobenzene	0.44	U	0.44	NC	30	U
1,4-Dichlorobenzene	0.52	U	0.52	NC	30	U
trans-1,4-Dichloro-2-butene	2.5	U	2.5	NC	30	U
1,1-Dichloroethane	0.52	U	0.52	NC	30	U
1,2-Dichloroethane	0.57	U	0.57	NC	30	U
1,1-Dichloroethene	0.45	U	0.45	NC	30	U
cis-1,2-Dichloroethene	0.65	U	0.65	NC	30	U
trans-1,2-Dichloroethene	0.44	U	0.44	NC	30	U
1,2-Dichloropropane	0.52	U	0.52	NC	30	U
cis-1,3-Dichloropropene	0.14	U	0.14	NC	30	U
trans-1,3-Dichloropropene	0.14	U	0.14	NC	30	U
Ethylbenzene	0.44	U	0.44	NC	30	U
2-Hexanone	4.4	U	4.4	NC	30	U
Bromomethane	2.5	U	2.5	NC	30	U
Chloromethane	1.0	U	1.0	NC	30	U
Dibromomethane	0.41	U	0.41	NC	30	U
Methylene Chloride	4.0	U	4.0	NC	30	U
2-Butanone (MEK)	8.4	U	8.4	NC	30	U
Iodomethane	2.5	U	2.5	NC	30	U
4-Methyl-2-pentanone (MIBK)	3.8	U	3.8	NC	30	U J3
Styrene	0.98	U	0.98	NC	30	U
1,1,1,2-Tetrachloroethane	0.63	U	0.63	NC	30	U
1,1,2,2-Tetrachloroethane	0.15	U	0.15	NC	30	U
Tetrachloroethene	0.50	U	0.50	NC	30	U
Toluene	0.51	U	0.51	NC	30	U

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Duplicate - Batch: 660-82165

Method: 8260B
Preparation: 5030B

Lab Sample ID: 660-30730-D-2 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/22/2009 1436
Date Prepared: 07/22/2009 1436

Analysis Batch: 660-82165
Prep Batch: N/A
Units: ug/L

Instrument ID: BVMG GC/MS
Lab File ID: 1GG2218.D
Initial Weight/Volume: 5 mL
Final Weight/Volume: 5 mL

Analyte	Sample Result/Qual		Result	RPD	Limit	Qual
1,1,1-Trichloroethane	0.46	U	0.46	NC	30	U
1,1,2-Trichloroethane	0.47	U	0.47	NC	30	U
Trichloroethene	0.50	U	0.50	NC	30	U
Trichlorofluoromethane	2.5	U	2.5	NC	30	U J3
1,2,3-Trichloropropane	0.18	U	0.18	NC	30	U
Vinyl acetate	1.5	U	1.5	NC	30	U
Vinyl chloride	0.50	U	0.50	NC	30	U
Xylenes, Total	0.50	U	0.50	NC	30	U
Surrogate	% Rec		Acceptance Limits			
4-Bromofluorobenzene	100		70 - 130			
Dibromofluoromethane	95		70 - 130			
Toluene-d8 (Surr)	102		70 - 130			

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Method Blank - Batch: 660-82309

Method: 8011
Preparation: 8011

Lab Sample ID: MB 660-82309/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/23/2009 1627
Date Prepared: 07/23/2009 1230

Analysis Batch: 660-82476
Prep Batch: 660-82309
Units: ug/L

Instrument ID: HP 5890 DUAL ECD
Lab File ID: 1G23U011.D
Initial Weight/Volume: 34.9616 mL
Final Weight/Volume: 2.0 mL
Injection Volume: 4 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	PQL
1,2-Dibromo-3-Chloropropane	0.010	U	0.010	0.020
Ethylene Dibromide	0.010	U	0.010	0.020
Surrogate	% Rec		Acceptance Limits	
1,1,1,2-Tetrachloroethane	85		60 - 140	

Lab Control Sample - Batch: 660-82309

Method: 8011
Preparation: 8011

Lab Sample ID: LCS 660-82309/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/23/2009 1648
Date Prepared: 07/23/2009 1230

Analysis Batch: 660-82476
Prep Batch: 660-82309
Units: ug/L

Instrument ID: HP 5890 DUAL ECD
Lab File ID: 1G23U012.D
Initial Weight/Volume: 34.9884 mL
Final Weight/Volume: 2.0 mL
Injection Volume: 4 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,2-Dibromo-3-Chloropropane	0.250	0.198	79	60 - 140	
Ethylene Dibromide	0.250	0.218	87	60 - 140	

Matrix Spike - Batch: 660-82309

Method: 8011
Preparation: 8011

Lab Sample ID: 660-30729-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/23/2009 1731
Date Prepared: 07/23/2009 1230

Analysis Batch: 660-82476
Prep Batch: 660-82309
Units: ug/L

Instrument ID: HP 5890 DUAL ECD
Lab File ID: 1G23U014.D
Initial Weight/Volume: 37.3056 mL
Final Weight/Volume: 2.0 mL
Injection Volume: 4 uL
Column ID: PRIMARY

Analyte	Sample Result/Qual		Spike Amount	Result	% Rec.	Limit	Qual
1,2-Dibromo-3-Chloropropane	0.0096	U	0.235	0.136	58	60 - 140	J3
Ethylene Dibromide	0.0096	U	0.235	0.148	63	60 - 140	

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Method Blank - Batch: 680-143550

Lab Sample ID: MB 680-143550/17-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/25/2009 0015
Date Prepared: 07/23/2009 1215

Analysis Batch: 680-143770
Prep Batch: 680-143550
Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	PQL
Antimony	2.3	U	2.3	5.0
Arsenic	1.3	U	1.3	2.5
Barium	1.3	U	1.3	5.0
Beryllium	0.25	U	0.25	0.50
Cadmium	0.095	U	0.095	0.50
Chromium	2.5	U	2.5	5.0
Cobalt	0.15	U	0.15	0.50
Copper	1.1	U	1.1	5.0
Iron	33	U	33	100
Lead	0.20	U	0.20	1.5
Nickel	0.50	U	0.50	1.0
Selenium	1.0	U	1.0	2.5
Silver	0.25	U	0.25	1.0
Sodium	250	U	250	500
Thallium	0.50	U	0.50	1.0
Vanadium	3.8	U	3.8	10
Zinc	8.3	U	8.3	20

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Lab Control Sample - Batch: 680-143550

Method: 6020

Preparation: 3005A

Total Recoverable

Lab Sample ID: LCS 680-143550/18-A

Analysis Batch: 680-143770

Instrument ID: ICP MS - A

Client Matrix: Water

Prep Batch: 680-143550

Lab File ID: N/A

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 50 mL

Date Analyzed: 07/25/2009 0022

Final Weight/Volume: 250 mL

Date Prepared: 07/23/2009 1215

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	50.0	54.8	110	75 - 125	
Arsenic	100	104	104	75 - 125	
Barium	100	103	103	75 - 125	
Beryllium	50.0	53.0	106	75 - 125	
Cadmium	50.0	52.0	104	75 - 125	
Chromium	100	101	101	75 - 125	
Cobalt	50.0	49.4	99	75 - 125	
Copper	100	104	104	75 - 125	
Iron	5000	5100	102	75 - 125	
Lead	50.0	49.6	99	75 - 125	
Nickel	100	104	104	75 - 125	
Selenium	100	106	106	75 - 125	
Silver	50.0	50.6	101	75 - 125	
Sodium	5000	5000	100	75 - 125	
Thallium	40.0	40.7	102	75 - 125	
Vanadium	100	102	102	75 - 125	
Zinc	100	106	106	75 - 125	

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 680-143550**

**Method: 6020
Preparation: 3005A
Dissolved**

MS Lab Sample ID: 660-30729-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/25/2009 0048
Date Prepared: 07/23/2009 1215

Analysis Batch: 680-143770
Prep Batch: 680-143550

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

MSD Lab Sample ID: 660-30729-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/25/2009 0055
Date Prepared: 07/23/2009 1215

Analysis Batch: 680-143770
Prep Batch: 680-143550

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Antimony	108	104	75 - 125	4	20		
Arsenic	104	100	75 - 125	4	20		
Barium	100	97	75 - 125	3	20		
Beryllium	109	102	75 - 125	6	20		
Cadmium	103	99	75 - 125	3	20		
Chromium	100	97	75 - 125	3	20		
Cobalt	96	93	75 - 125	3	20		
Copper	98	95	75 - 125	3	20		
Iron	103	100	75 - 125	3	20		
Lead	98	94	75 - 125	4	20		
Nickel	101	97	75 - 125	3	20		
Selenium	106	102	75 - 125	3	20		
Silver	99	96	75 - 125	3	20		
Sodium	98	93	75 - 125	3	20		
Thallium	103	99	75 - 125	4	20		
Vanadium	101	98	75 - 125	3	20		
Zinc	105	109	75 - 125	4	20		

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Method Blank - Batch: 680-145079

Lab Sample ID: MB 680-145079/6-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2009 1610
Date Prepared: 08/11/2009 1004

Analysis Batch: 680-145212
Prep Batch: 680-145079
Units: ug/L

Method: 6020 Preparation: 3005A Total Recoverable

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	PQL
Antimony	2.3	U	2.3	5.0
Arsenic	1.3	U	1.3	2.5
Barium	1.3	U	1.3	5.0
Beryllium	0.25	U	0.25	0.50
Cadmium	0.095	U	0.095	0.50
Chromium	2.5	U	2.5	5.0
Cobalt	0.15	U	0.15	0.50
Copper	1.1	U	1.1	5.0
Iron	33	U	33	100
Lead	0.20	U	0.20	1.5
Nickel	0.50	U	0.50	1.0
Selenium	1.0	U	1.0	2.5
Silver	0.25	U	0.25	1.0
Sodium	250	U	250	500
Thallium	0.50	U	0.50	1.0
Vanadium	3.8	U	3.8	10
Zinc	8.3	U	8.3	20

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Lab Control Sample - Batch: 680-145079

Method: 6020

Preparation: 3005A

Total Recoverable

Lab Sample ID: LCS 680-145079/7-A

Analysis Batch: 680-145212

Instrument ID: ICP MS - A

Client Matrix: Water

Prep Batch: 680-145079

Lab File ID: N/A

Dilution: 1.0

Units: ug/L

Initial Weight/Volume: 50 mL

Date Analyzed: 08/11/2009 1737

Final Weight/Volume: 250 mL

Date Prepared: 08/11/2009 1004

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Antimony	50.0	46.5	93	75 - 125	
Arsenic	100	104	104	75 - 125	
Barium	100	98.0	98	75 - 125	
Beryllium	50.0	49.7	99	75 - 125	
Cadmium	50.0	49.8	100	75 - 125	
Chromium	100	96.2	96	75 - 125	
Cobalt	50.0	45.1	90	75 - 125	
Copper	100	101	101	75 - 125	
Iron	5000	5350	107	75 - 125	
Lead	50.0	48.2	96	75 - 125	
Nickel	100	99.2	99	75 - 125	
Selenium	100	106	106	75 - 125	
Silver	50.0	48.1	96	75 - 125	
Sodium	5000	5140	103	75 - 125	
Thallium	40.0	40.0	100	75 - 125	
Vanadium	100	97.2	97	75 - 125	
Zinc	100	103	103	75 - 125	

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 680-145079

Method: 6020
Preparation: 3005A
Total Recoverable

MS Lab Sample ID: 660-30995-A-2-B MS Analysis Batch: 680-145212
Client Matrix: Water Prep Batch: 680-145079
Dilution: 1.0
Date Analyzed: 08/11/2009 1704
Date Prepared: 08/11/2009 1004

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

MSD Lab Sample ID: 660-30995-A-2-C MSD Analysis Batch: 680-145212
Client Matrix: Water Prep Batch: 680-145079
Dilution: 1.0
Date Analyzed: 08/11/2009 1710
Date Prepared: 08/11/2009 1004

Instrument ID: ICP MS - A
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 250 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Antimony	101	97	75 - 125	4	20		
Arsenic	108	107	75 - 125	1	20		
Barium	102	99	75 - 125	2	20		
Beryllium	108	105	75 - 125	2	20		
Cadmium	105	100	75 - 125	5	20		
Chromium	99	97	75 - 125	2	20		
Cobalt	91	89	75 - 125	2	20		
Copper	102	99	75 - 125	2	20		
Iron	106	104	75 - 125	2	20		
Lead	96	94	75 - 125	2	20		
Nickel	100	99	75 - 125	1	20		
Selenium	113	111	75 - 125	2	20		
Silver	97	95	75 - 125	2	20		
Sodium	76	58	75 - 125	2	20		J3
Thallium	99	98	75 - 125	1	20		
Vanadium	102	101	75 - 125	2	20		
Zinc	109	105	75 - 125	4	20		

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Method Blank - Batch: 660-82248

Lab Sample ID: MB 660-82248/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/23/2009 1531
Date Prepared: 07/23/2009 1144

Analysis Batch: 660-82308
Prep Batch: 660-82248
Units: mg/L

Method: 7470A Preparation: 7470A

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Lab Control Sample - Batch: 660-82248

Lab Sample ID: LCS 660-82248/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/23/2009 1533
Date Prepared: 07/23/2009 1144

Analysis Batch: 660-82308
Prep Batch: 660-82248
Units: mg/L

Method: 7470A Preparation: 7470A

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00100	0.000971	97	80 - 120	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 660-82248

Method: 7470A Preparation: 7470A

MS Lab Sample ID: 660-30487-F-1-C MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/23/2009 1540
Date Prepared: 07/23/2009 1144

Analysis Batch: 660-82308
Prep Batch: 660-82248

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

MSD Lab Sample ID: 660-30487-F-1-D MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/23/2009 1542
Date Prepared: 07/23/2009 1144

Analysis Batch: 660-82308
Prep Batch: 660-82248

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	91	105	80 - 120	14	20		

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Method Blank - Batch: 660-83056

Method: 7470A
Preparation: 7470A

Lab Sample ID: MB 660-83056/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2009 1427
Date Prepared: 08/11/2009 1113

Analysis Batch: 660-83098
Prep Batch: 660-83056
Units: mg/L

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Result	Qual	MDL	PQL
Mercury	0.000072	U	0.000072	0.00020

Lab Control Sample - Batch: 660-83056

Method: 7470A
Preparation: 7470A

Lab Sample ID: LCS 660-83056/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2009 1429
Date Prepared: 08/11/2009 1113

Analysis Batch: 660-83098
Prep Batch: 660-83056
Units: mg/L

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.00100	0.000963	96	80 - 120	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 660-83056

Method: 7470A
Preparation: 7470A

MS Lab Sample ID: 660-31008-A-1-C MS
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2009 1436
Date Prepared: 08/11/2009 1113

Analysis Batch: 660-83098
Prep Batch: 660-83056

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

MSD Lab Sample ID: 660-31008-A-1-D MSD
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 08/11/2009 1438
Date Prepared: 08/11/2009 1113

Analysis Batch: 660-83098
Prep Batch: 660-83056

Instrument ID: Hg Analyzer
Lab File ID: N/A
Initial Weight/Volume: 25 mL
Final Weight/Volume: 25 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	97	95	80 - 120	2	20		

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Method Blank - Batch: 660-82656

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 660-82656/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/30/2009 1404
Date Prepared: N/A

Analysis Batch: 660-82656
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Chloride	0.20	U	0.20	0.50

Lab Control Sample - Batch: 660-82656

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-82656/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/30/2009 1437
Date Prepared: N/A

Analysis Batch: 660-82656
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	10.0	10.4	104	90 - 110	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 660-82656

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-30734-A-3 MS
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 07/30/2009 2034
Date Prepared: N/A

Analysis Batch: 660-82656
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 660-30734-A-3 MSD
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 07/30/2009 2107
Date Prepared: N/A

Analysis Batch: 660-82656
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Chloride	103	102	90 - 110	1	30		

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Method Blank - Batch: 660-82718

Method: 300.0
Preparation: N/A

Lab Sample ID: MB 660-82718/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/31/2009 1701
Date Prepared: N/A

Analysis Batch: 660-82718
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	PQL
Chloride	0.20	U	0.20	0.50

Lab Control Sample - Batch: 660-82718

Method: 300.0
Preparation: N/A

Lab Sample ID: LCS 660-82718/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/31/2009 1733
Date Prepared: N/A

Analysis Batch: 660-82718
Prep Batch: N/A
Units: mg/L

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 5 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chloride	10.0	10.4	104	90 - 110	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 660-82718

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 660-30783-D-1 MS
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 07/31/2009 2331
Date Prepared: N/A

Analysis Batch: 660-82718
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 660-30783-D-1 MSD
Client Matrix: Water
Dilution: 2.0
Date Analyzed: 08/01/2009 0003
Date Prepared: N/A

Analysis Batch: 660-82718
Prep Batch: N/A

Instrument ID: ICS 2000
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Chloride	104	104	90 - 110	0	30		

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Method Blank - Batch: 660-82369

Method: 350.1
Preparation: N/A

Lab Sample ID: MB 660-82369/11
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/24/2009 1503
Date Prepared: N/A

Analysis Batch: 660-82369
Prep Batch: N/A
Units: mg/L

Instrument ID: Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	MDL	PQL
Ammonia (as N)	0.010	U	0.010	0.020

Lab Control Sample - Batch: 660-82369

Method: 350.1
Preparation: N/A

Lab Sample ID: LCS 660-82369/12
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/24/2009 1504
Date Prepared: N/A

Analysis Batch: 660-82369
Prep Batch: N/A
Units: mg/L

Instrument ID: Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Ammonia (as N)	0.500	0.507	101	90 - 110	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 660-82369

Method: 350.1
Preparation: N/A

MS Lab Sample ID: 660-30729-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/24/2009 1523
Date Prepared: N/A

Analysis Batch: 660-82369
Prep Batch: N/A

Instrument ID: Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

MSD Lab Sample ID: 660-30729-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/24/2009 1524
Date Prepared: N/A

Analysis Batch: 660-82369
Prep Batch: N/A

Instrument ID: Autoanalyzer
Lab File ID: N/A
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Ammonia (as N)	80	86	90 - 110	6	30	J3	J3

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Method Blank - Batch: 660-82179

Method: 353.2
Preparation: N/A

Lab Sample ID: MB 660-82179/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2009 1524
Date Prepared: N/A

Analysis Batch: 660-82179
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	PQL
Nitrate Nitrite as N	0.10	U	0.10	0.50
Nitrite as N	0.10	U	0.10	0.50
Nitrate as N	0.10	U	0.10	0.50

Lab Control Sample - Batch: 660-82179

Method: 353.2
Preparation: N/A

Lab Sample ID: LCS 660-82179/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2009 1524
Date Prepared: N/A

Analysis Batch: 660-82179
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate Nitrite as N	1.00	1.04	104	90 - 110	
Nitrite as N	1.00	1.01	101	90 - 110	

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 660-82179**

**Method: 353.2
Preparation: N/A**

MS Lab Sample ID: 660-30729-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2009 1524
Date Prepared: N/A

Analysis Batch: 660-82179
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 660-30729-1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/21/2009 1524
Date Prepared: N/A

Analysis Batch: 660-82179
Prep Batch: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	<u>% Rec.</u>		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrate Nitrite as N	120	111	90 - 110	7	30	J3	J3
Nitrite as N	107	99	90 - 110	8	30		

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Method Blank - Batch: 640-58941

Method: SM 2540C
Preparation: N/A

Lab Sample ID: MB 640-58941/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/23/2009 1147
Date Prepared: N/A

Analysis Batch: 640-58941
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 200 mL
Final Weight/Volume: 200 mL

Analyte	Result	Qual	MDL	PQL
Total Dissolved Solids	5.0	U	5.0	5.0

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 640-58941

Method: SM 2540C
Preparation: N/A

LCS Lab Sample ID: LCS 640-58941/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/23/2009 1147
Date Prepared: N/A

Analysis Batch: 640-58941
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

LCSD Lab Sample ID: LCSD 640-58941/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/23/2009 1147
Date Prepared: N/A

Analysis Batch: 640-58941
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Total Dissolved Solids	99	98	80 - 120	1	25		

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

Quality Control Results

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Duplicate - Batch: 640-58941

Method: SM 2540C
Preparation: N/A

Lab Sample ID: 640-22925-K-1 DU
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 07/23/2009 1147
Date Prepared: N/A

Analysis Batch: 640-58941
Prep Batch: N/A
Units: mg/L

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 100 mL
Final Weight/Volume: 200 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	340	348	1	25	

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

Orlando Service Center
8010 Sunport Drive Suite 116
Orlando, FL 32809
Phone (813) 885-7427 Fax (813) 885-7049

660.30729

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sample: <u>Shawn Victory</u>	Lab P#: <u>Tatuni, Natalie</u>	Carrier Tracking No(s):	COC No: <u>660-24181.3</u>
Client Contact: <u>Mr. Aamod Sonawane</u>		Phone: <u>407-399-3349</u>	E-Mail: <u>natalie.tatuni@testamericainc.com</u>		Page: <u>Page 3 of 3</u>
Company: <u>Camp Dresser & McKee Inc</u>		Due Date Requested:	Analysis Requested		
Address: <u>1715 North Westshore Blvd. Suite 875</u>		TAT Requested (days):			
City: <u>Tampa</u>					
State, Zip: <u>FL 33607</u>		PO #:			
Phone: <u>813 33607</u>		Purchase Order Requested			
Email: <u>SonawaneAS@cdm.com</u>		WO #:			
Project Name: <u>Citrus County Landfill</u>		Project #:			
Site: <u>Citrus County Landfill</u>		SSOW#:			
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (In-water, Sealed, O=Material, In-Tissue Available)
<u>MW-11</u>	<u>7-26-09</u>	<u>1353</u>	<u>6</u>	<u>Water</u>	
<u>MW-12</u>	<u>7-26-09</u>	<u>1515</u>	<u>6</u>	<u>Water</u>	
<u>MW-13</u>	<u>7-26-09</u>	<u>1515</u>	<u>6</u>	<u>Water</u>	
<u>DGP</u>	<u>7-26-09</u>	<u>1515</u>	<u>6</u>	<u>Water</u>	
<u>Eq Blank</u>	<u>7-26-09</u>	<u>1515</u>	<u>6</u>	<u>Water</u>	
Possible Hazard Identification		Field Filtered Sample (Yes or No)			
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		Perform MS/MSD (Yes or No)			
Deliverable Requested: I, II, III, IV, Other (specify)		350.1 - Ammonia (as N)			
		6020 - Appendix 1 Metals + Iron Mercury and Sod			
		8260B - 8260 Appendix 1 Compounds			
		300.0_28D, 353.2			
		2540C - Total Dissolved Solids			
		8011> EDB, DBCP, and 123TCP			
		8260B - 8260 Appendix 1 Compounds			
		Total Number of containers			
		Special Instructions/Note:			
Empty Kit Relinquished by: <u>7-26-09</u>		Date: <u>7-17-09</u>	Time: <u>11:30</u>	Method of Shipment: <u>Overnight</u>	
Relinquished by: <u>Shawn Victory</u>		Date/Time: <u>7-26-09 1730</u>	Company: <u>TestAmerica</u>	Received by: <u>Carol Melby</u>	
Relinquished by: <u>Shawn Victory</u>		Date/Time: <u>7-26-09 1730</u>	Company: <u>TestAmerica</u>	Received by: <u>Carol Melby</u>	
Relinquished by: <u>Shawn Victory</u>		Date/Time: <u>7-26-09 1730</u>	Company: <u>TestAmerica</u>	Received by: <u>Carol Melby</u>	
Custody Seals Intact: <u>Yes</u>		Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: <u>4.1°C Cu07</u>		

JOB NUMBER: 30729 Logged in TALS By: Carol McHulby

Cooler Received on (date) 7/20/09 And Opened By (full name): Carol McHulby

1. Shipper (circle one) FEDEX UPS DHL WALK-IN COURIER OTHER: _____

2. Tracking # _____

3. Temperature of rep. sample or temp blank when opened: 4.1 Degrees Celsius

4. Number of H₂SO₄ (sulfuric acid) preserved containers: 5

All containers pH < 2 ? yes If not please comment below:

5. Number of HCL (hydrochloric acid) preserved containers: _____

All containers pH < 2 ? _____ If not please comment below:

6. Number of HNO₃ (nitric acid) preserved containers: 5

All containers pH < 2 ? yes If not please comment below:

7. Number of NaOH (sodium hydroxide) preserved containers: _____

All containers pH > 12 ? _____ If not please comment below:

8. Number of Unpreserved containers: 10

All containers pH between 6 and 8? yes If not please comment below:

9. Was chlorine present in any of the unpreserved containers? no

If yes, which samples? _____

Meter #'s:

PAGE: of

SITE NAME: CDM		SITE LOCATION: Leclaire FL	
WELL NO: FQ Blak	SAMPLE ID:		DATE: 7-20-09

[illegible]

SAMPLED BY (PRINT) / AFFILIATION: <i>Ryan Reich</i>				SAMPLER(S) SIGNATURES: <i>[Signature]</i>			SAMPLING INITIATED AT: <i>10/18</i>		SAMPLING ENDED AT: <i>1057</i>	
PUMP OR TUBING DEPTH IN WELL (feet):				SAMPLE PUMP FLOW RATE (mL per minute):			TUBING MATERIAL CODE: <i>PE</i>			
FIELD DECONTAMINATION: <i>(Y)</i> N				FIELD-FILTERED: Y <i>(N)</i>			FILTER SIZE: _____ μ m		DUPLICATE: Y <i>(N)</i>	
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
REMARKS:										
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)										
SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)										

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) Turbidity: all readings < 20 NTU; optionally $+ 5$ NTU or $+ 10\%$ (whichever is greater)

DEP-SOP-001/01
TESTAMERICA ORLANDO FIELD SAMPLING LOG

Meter #'s: _____

PAGE: _____ of _____

FS 2200 Groundwater Sampling

SITE NAME: <u>CDM</u>		SITE LOCATION: <u>Lecanto, FL</u>	
WELL NO: <u>MW-10</u>		SAMPLE ID: _____	
		DATE: <u>7-20-09</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>3/8</u>	WELL SCREEN INTERVAL DEPTH: <u>100.5</u> feet to <u>120.5</u> feet	STATIC DEPTH TO WATER (feet): <u>107.65</u>	PURGE PUMP TYPE OR BAILER: <u>3P</u>
Measuring Point Elevation (ft/msl) MP Elevation = _____		- Water Level = Water Level Elevation		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
only fill out if applicable)
12.85 = (120.50 feet - 107.65 feet) X .16 gallons/foot = 2.06 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>118</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>118</u>	PURGING INITIATED AT: <u>1111</u>	PURGING ENDED AT: <u>1335</u>	TOTAL VOLUME PURGED (gallons): <u>8</u>
---	---	-----------------------------------	-------------------------------	---

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR	ODOR	H2O Level
1230	2.06	2.06	.06	108	3.74	25.8	53	2.68	176	cloudy	yes	
1239	.51	2.57	.06	108	3.91	25.9	52	2.03	167	"	"	
1248	.51	3.08	.06	108	3.82	25.4	51	1.78	116	"	"	
1257	.51	3.59	.06	108	3.82	25.6	52	1.59	113	"	"	
1306	.51	4.10	.06	108	3.82	25.6	53	.95	119	"	"	
1315	.51	4.61	.06	108	3.80	25.1	50	.97	104	"	"	
1320	.51	5.12	.14	108	3.72	24.9	51	.99	199	"	"	
1325	.51	5.63	.14	108	3.76	24.2	51	1.04	224	"	"	
1330	.51	6.14	.14	108	3.79	24.1	50	.65	156	"	"	
1335	.51	7.65	.14	108	3.74	24.2	50	.49	174	"	"	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Ryan Reich</u>	SAMPLER(S) SIGNATURES: _____	SAMPLING INITIATED AT: <u>1330</u>	SAMPLING ENDED AT: <u>1345</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>118</u>	SAMPLE PUMP FLOW RATE (mL per minute): _____	TUBING MATERIAL CODE: <u>PE</u>	
FIELD DECONTAMINATION: <u>Y</u> N	FIELD-FILTERED: Y N FILTER SIZE: _____ µm	DUPLICATE: <u>Y</u> <u>N</u> <u>RR 7-20-09</u>	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Meter #'s:

PAGE: of

SITE NAME: CDM		SITE LOCATION: Lecanto	
WELL NO: MU-10 Cont		SAMPLE ID:	DATE: 7-20-09

[illegible]

SAMPLED BY (PRINT) / AFFILIATION:				SAMPLER(S) SIGNATURES:			SAMPLING INITIATED AT:		SAMPLING ENDED AT:		
PUMP OR TUBING DEPTH IN WELL (feet):				SAMPLE PUMP FLOW RATE (mL per minute):			TUBING MATERIAL CODE:				
FIELD DECONTAMINATION: ☒ Y ☐ N				FIELD-FILTERED: ☒ Y ☐ N			FILTER SIZE:		DUPLICATE: ☒ Y ☐ N		
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH					
See CDC											
REMARKS:											
contained from pg 66											
MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)											
SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)											
NOTES: 1. The above information was obtained from the field notes of the sampler.											

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is greater)

PAGE: 7 of 7

SITE NAME: Citrus County Landfill		SITE LOCATION: Lacinto	
WELL NO: MW-12		SAMPLE ID:	DATE: 7-20-09

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8	WELL SCREEN INTERVAL DEPTH: 40 feet to 110 feet	STATIC DEPTH TO WATER (feet): 48.24	PURGE PUMP TYPE OR BAILER: 3P
Measuring Point Elevation (ft/msl) - Water Level = Water Level Elevation MP Elevation =				

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME									
(only fill out if applicable)									
	=	gallons	+	(	gallons/foot	X	feet)	+	gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 107	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 107	PURGING INITIATED AT: 1407	PURGING ENDED AT: 1506	TOTAL VOLUME PURGED (gallons): 4.5
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[illegible]

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLED BY (PRINT) / AFFILIATION: <i>Shawn Victoria</i>				SAMPLER(S) SIGNATURES: <i>[Signature]</i>			SAMPLING INITIATED AT: <i>1506</i>		SAMPLING ENDED AT: <i>1515</i>	
PUMP OR TUBING DEPTH IN WELL (feet): <i>107</i>				SAMPLE PUMP FLOW RATE (mL per minute):			TUBING MATERIAL CODE: <i>PE</i>			
FIELD DECONTAMINATION: <i>0</i> N				FIELD-FILTERED: Y <i>(N)</i> FILTER SIZE: _____ μ m Filtration Equipment Type: _____			DUPLICATE: Y <i>(0)</i>			
SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD		SAMPLING EQUIPMENT CODE	
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH				
<i>MW-12</i>	<i>1</i>	<i>PE</i>	<i>500</i>	<i>UNP</i>	<i>500</i>	<i>6.5</i>	<i>TPS</i>	<i>BP</i>		
<i>↓</i>	<i>1</i>	<i>↓</i>	<i>250</i>	<i>UNP</i>	<i>250</i>	<i>6.5</i>	<i>353.2</i>	<i>↓</i>		
<i>↓</i>	<i>1</i>	<i>↓</i>	<i>250</i>	<i>H2SO4</i>	<i>250</i>	<i>>1</i>	<i>350.1</i>	<i>↓</i>		
<i>↓</i>	<i>1</i>	<i>↓</i>	<i>250</i>	<i>HNO3</i>	<i>250</i>	<i>>1</i>	<i>6020</i>	<i>↓</i>		
<i>↓</i>	<i>6</i>	<i>CG</i>	<i>40</i>	<i>UNP</i>	<i>40</i>	<i>6.5</i>	<i>8260 B</i>	<i>↓</i>		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.

2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: $\pm 5\%$ Dissolved Oxygen: all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, $+0.2$ mg/L or $+10\%$ (whichever is greater) Turbidity: all readings < 20 NTU; optionally $+5$ NTU or $+10\%$ (whichever is greater)

DEP-SOP-001/01
TESTAMERICA ORLANDO FIELD SAMPLING LOG

Meter #'s: M-1

PAGE: 1 of 1

FS 2200 Groundwater Sampling

SITE NAME: <u>Citrus County Landfill</u>	SITE LOCATION: <u>Lacanta</u>
WELL NO: <u>MW-11</u>	SAMPLE ID: <u></u>
DATE: <u>7-20-09</u>	

PURGING DATA

WELL DIAMETER (inches): <u>2</u>	TUBING DIAMETER (inches): <u>3/8</u>	WELL SCREEN INTERVAL DEPTH: <u>92</u> feet to <u>112</u> feet	STATIC DEPTH TO WATER (feet): <u>99.61</u>	PURGE PUMP TYPE OR BAILER: <u>BP</u>
Measuring Point Elevation (ft/msl) <u></u> - Water Level = Water Level Elevation				
MP Elevation = <u></u>				

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
1209 = (111.7 feet - 99.61 feet) X .16 gallons/foot = 1.93 gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): <u>109</u>	FINAL PUMP OR TUBING DEPTH IN WELL (feet): <u>109</u>	PURGING INITIATED AT: <u>1236</u>	PURGING ENDED AT: <u>1340</u>	TOTAL VOLUME PURGED (gallons): <u>7</u>
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TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or us/cm)	DISSOLVED OXYGEN (mg/L)	TURBIDITY (NTUs)	COLOR	ODOR	H2O Level
1300	1.93	1.93	.20	99.61	6.84	24.2	352	1.28	9.87	clear	no	
1304	.48	2.41	.20	99.61	6.86	24.7	353	1.13	23.2			
1308	.48	2.89	.15	99.61	6.89	24.4	355	1.14	17.4			
1312	.48	3.37	.15	99.61	6.91	24.4	355	1.14	12.1			
1316	.48	3.85	.15	99.61	6.93	24.5	356	1.14	16.0			
1320	.48	4.33	.15	99.61	6.86	25.0	359	1.19	10.0			
1325	.48	4.81	.10	99.61	6.94	25.1	360	1.18	8.83			
1330	.48	5.29	.10	99.61	6.95	25.1	360	1.19	10.40			
1335	.48	5.77	.10	99.61	6.94	25.2	360	1.18	9.90			
1340	.48	6.25	.10	99.61	6.91	25.5	360	1.18	10.28			

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: <u>Shawn Victory</u>	SAMPLER(S) SIGNATURES: <u>[Signature]</u>	SAMPLING INITIATED AT: <u>1341</u>	SAMPLING ENDED AT: <u>1353</u>
PUMP OR TUBING DEPTH IN WELL (feet): <u>109</u>	SAMPLE PUMP FLOW RATE (mL per minute): <u>.10</u>	TUBING MATERIAL CODE: <u>PE</u>	
FIELD DECONTAMINATION: <u>Y</u> N	FIELD-FILTERED: <u>Y</u> N FILTER SIZE: <u>10</u> µm	DUPLICATE: Y <u>N</u>	
Filtration Equipment Type: <u>Enviro Supply</u>			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		
MW-11	1	PE	500	UNP	500	6.9	TDS	BP
	1		250	UNP	250	6.9	3582	
	1		250	H2SO4	250	>1	350.1	
	1		250	HNO3	250	>1	6020	
	6	CG	40	UNP	40	6.9	82603	

REMARKS: Filtered Turbidity - 2.35

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)
SAMPLING/PURGING APP = After Peristaltic Pump; B = Bailor; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
EQUIPMENT CODES: RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

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2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)
pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: all readings ≤ 20% saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or ± 10% (whichever is greater) Turbidity: all readings ≤ 20 NTU; optionally ± 5 NTU or ± 10% (whichever is greater)

Login Sample Receipt Check List

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Login Number: 30729

Creator: McNulty, Carol

List Number: 1

List Source: TestAmerica Tampa

Question	T / F / NA	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	4.1 degrees C Cu-07
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
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	
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	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

Login Sample Receipt Check List

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Login Number: 30729
Creator: Daughtry, Beth
List Number: 1

List Source: TestAmerica Savannah
List Creation: 07/22/09 12:33 PM

Question	T / F/ NA	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	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	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	
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.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	

Login Sample Receipt Check List

Client: Camp Dresser & McKee Inc

Job Number: 660-30729-1

Login Number: 30729
Creator: Alsheimer, Carl
List Number: 1

List Source: TestAmerica Tallahassee
List Creation: 07/22/09 08:18 AM

Question	T / F / NA	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	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	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	
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.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified	True	