MEMORANDUM **(LABORATORY DATA REPORT)**

SHAW ENVIRONMENTAL AND INFRASTRUCTURE, INC.

Contract No. EP-C-08-034

In reply refer to: 11-SM103
11-AG76
11-SB01/sm

To: Cindy Paul

From: Steve Markham
Andrew Greenwood
Shauna Bennett

Lab: Metals

Thru: Sujith Kumar

Date: 5/12/11

Technical Directive No.: 7ME743SF
Task No.: 23993

Originator: Rick Wilkin
Copies: R. Wilkin
S. Markham

Sample Site/Project: Pavillion Groundwater
Date Collected: 4/14 to 4/21/11
Date Received: 4/21 & 4/22/11
Date Analyzed: 5/10 to 5/12/11
No. Samples Analyzed: 19

Shaw Sample Set No.: 6030, 6032
Sample Matrix: Aqueous
Analysis Type: ICP-OES
Sample Preparation: Dilution

Method(s) Used : RSKSOP-213 Rev. 4 Standard Operating Procedure for Operation of Perkin Elmer Optima 3300DV ICP

Comments:

No problems noted. All QC results met criteria established in RSKSOP 213(4). The MDL's and QL's represent those determined in September 2010, but not yet updated in RSKSOP-21 3(4).

Shaw Environmental and Infrastructure, Inc.

Analytical Service Results Report

Laboratory: Metals **Report Date:** 5/12/11

Technical Directive: 7ME743SF

Analysts: S.Markham/A.Greenwood/S. Bennett

Method: RSKSOP 213(4)

Sample Results (1, 2)

Field Sample ID	PGDW20-0411	PGDW20-0411	PGDW26-0411	PGDW30-0411	PGDW32-0411	PGDW32d-0411
Sample Lab ID	6030-01	6030-01 Lab Dup.	6030-02	6030-03	6030-04	6030-05
Date Collected	4/18/11	4/18/11	4/18/11	4/18/11	4/18/11	4/18/11
Date Analyzed	5/10/11	5/10/11	5/10/11	5/10/11	5/10/11	5/10/11

Analytes		Unit	MDL	QL	Data	DF	Data	DF	Data	DF	Data	DF	Data	DF	Data	DF
Names	Codes															
Silver (Ag)	7440-22-4	mg/L	0.015	0.051	ND	1	ND (RPD=NA)	1	ND	1	ND	1	ND	1	ND	1
Aluminum (Al)	7429-90-5	mg/L	0.045	0.149	0.164	1	0.205 (RPD=22.22)	1	BQL(0.093)	1	BQL(0.103)	1	BQL(0.062)	1	BQL(0.084)	1
Arsenic (As)	7440-38-2	mg/L	0.015	0.051	ND	1	ND (RPD=NA)	1	ND	1	ND	1	ND	1	ND	1
Boron (B)	7440-42-8	mg/L	0.006	0.018	0.169	1	0.170 (RPD=0.59)	1	0.378	1	0.111	1	0.195	1	0.197	1
Barium (Ba)	7440-39-3	mg/L	0.001	0.004	0.009	1	0.009 (RPD=0.00)	1	0.008	1	0.007	1	0.010	1	0.009	1
Beryllium (Be)	7440-41-7	mg/L	0.001	0.004	BQL(0.001)	1	BQL(0.002) (RPD=NA)	1	BQL(0.002)	1	BQL(0.002)	1	ND	1	BQL(0.001)	1
Calcium (Ca)	7440-70-2	mg/L	0.007	0.023	63.0	1	64.0 (RPD=1.57)	1	334	1	4.49	1	7.19	1	7.28	1
Cadmium (Cd)	7440-43-9	mg/L	0.001	0.004	ND	1	ND (RPD=NA)	1	ND	1	ND	1	ND	1	ND	1
Cobalt (Co)	7440-48-4	mg/L	0.001	0.004	ND	1	ND (RPD=NA)	1	ND	1	ND	1	ND	1	ND	1
Chromium (Cr)	7440-47-3	mg/L	0.001	0.004	ND	1	ND (RPD=NA)	1	ND	1	ND	1	ND	1	ND	1
Copper (Cu)	7440-50-8	mg/L	0.003	0.009	BQL(0.003)	1	ND (RPD=NA)	1	0.011	1	BQL(0.004)	1	ND	1	ND	1
Iron (Fe)	7439-89-6	mg/L	0.019	0.063	0.137	1	0.139 (RPD=1.45)	1	ND	1	BQL(0.042)	1	BQL(0.024)	1	BQL(0.030)	1
Potassium (K)	7440-09-7	mg/L	0.038	0.127	0.780	1	0.774 (RPD=0.77)	1	5.15	1	0.293	1	BQL(0.089)	1	0.271	1
Magnesium (Mg)	7439-95-4	mg/L	0.015	0.049	6.86	1	6.85 (RPD=0.15)	1	56.0	1	0.093	1	BQL(0.028)	1	BQL(0.026)	1
Manganese (Mn)	7439-96-5	mg/L	0.001	0.004	0.028	1	0.028 (RPD=0.00)	1	0.126	1	BQL(0.003)	1	BQL(0.002)	1	BQL(0.002)	1
Molybdenum (Mo)	7439-98-7	mg/L	0.002	0.007	0.016	1	0.010 (RPD=46.15)	1	BQL(0.006)	1	0.007	1	0.009	1	0.008	1
Sodium (Na)	7440-23-5	mg/L	0.040	0.134	520	1	530 (RPD=1.90)	1	232	1	210	1	198	1	198	1
Nickel (Ni)	7440-02-0	mg/L	0.001	0.004	ND	1	ND (RPD=NA)	1	ND	1	ND	1	ND	1	ND	1
Lead (Pb)	7439-92-1	mg/L	0.003	0.011	ND	1	ND (RPD=NA)	1	ND	1	ND	1	ND	1	ND	1
Antimony (Sb)	7440-36-0	mg/L	0.006	0.019	BQL(0.013)	1	BQL(0.010) (RPD=NA)	1	BQL(0.012)	1	BQL(0.007)	1	ND	1	ND	1
Selenium (Se)	7782-49-2	mg/L	0.005	0.016	ND	1	ND (RPD=NA)	1	ND	1	BQL(0.005)	1	ND	1	ND	1
Strontium (Sr)	7440-24-6	mg/L	0.001	0.004	0.949	1	0.968 (RPD=1.98)	1	3.31	1	0.070	1	0.090	1	0.090	1
Titanium (Ti)	7440-32-6	mg/L	0.001	0.004	0.004	1	BQL(0.003) (RPD=NA)	1	ND	1	BQL(0.001)	1	BQL(0.002)	1	BQL(0.002)	1
Thallium (Tl)	7440-28-0	mg/L	0.011	0.037	BQL(0.018)	1	BQL(0.016) (RPD=NA)	1	0.084	1	ND	1	ND	1	ND	1
Vanadium (V)	7440-62-2	mg/L	0.002	0.007	BQL(0.005)	1	BQL(0.004) (RPD=NA)	1	BQL(0.003)	1	BQL(0.003)	1	ND	1	BQL(0.004)	1
Zinc (Zn)	7440-66-6	mg/L	0.007	0.024	0.047	1	0.046 (RPD=2.15)	1	0.112	1	ND	1	BQL(0.009)	1	ND	1
Silicon (Si)	7440-21-3	mg/L	0.037	0.122	5.77	1	5.82 (RPD=0.86)	1	5.06	1	4.71	1	6.74	1	6.80	1
Sulfur (S)	7704-34-9	mg/L	0.121	0.403	384	1	385 (RPD=0.26)	1	393	1	113	1	121	1	121	1
Phosphorus (P)	7723-14-0	mg/L	0.004	0.014	ND	1	ND (RPD=NA)	1	ND	1	BQL(0.013)	1	ND	1	ND	1

Comments:

The MDL's and QL's represent those determined in September 2010, but not yet updated in RSKSOP-213(4)

Notes:

1. If the parameter was detected above the quantitation limit (QL), the numeric result is reported; BQL denotes that the parameter was not detected at or above the quantitation limit. BQL ( ) denotes that the parameter was detected above the method detection limit (MDL) but below QL and the estimated numeric result is reported in parenthesis; ND denotes that the parameter was not detected at all. All the results are corrected with dilution factors (DF), if applicable. Note that the applicable MDL is given only for the case DF=1.

2. " -" denotes that the information is not available or the analyte is not analyzed.

Shaw Environmental and Infrastructure, Inc.

Analytical Service Results Report

Laboratory: Metals **Report Date:** 5/12/11

Technical Directive: 7ME743SF

Analysts: S.Markham/A.Greenwood/S. Bennett

Method: RSKSOP 213(4)

Sample Results (1, 2)

Analytes		Unit	MDL	QL	Field Sample ID		EPAMW02-0411		EPAMW02d-0411		Trip Blank		PGDW05-0411		PGDW45-0411		PGDW45-0411	
					Sample Lab ID		6030-06		6030-07		6030-09		6030-11		6030-12		6030-12 Lab Dup.	
					Date Collected		4/19/11		4/19/11		4/14/11		4/19/11		4/19/11		4/19/11	
					Date Analyzed		5/10/11		5/10/11		5/10/11		5/10/11		5/11 & 5/12/11		5/11 & 5/12/11	
Names	Codes				Data	DF	Data	DF	Data	DF	Data	DF	Data	DF	Data	DF	Data	DF
Silver (Ag)	7440-22-4	mg/L	0.015	0.051	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1	ND (RPD=NA)	1
Aluminum (Al)	7429-90-5	mg/L	0.045	0.149	0.684	1	0.736	1	ND	1	BQL(0.076)	1	BQL(0.058)	1	ND (RPD=NA)	1
Arsenic (As)	7440-38-2	mg/L	0.015	0.051	ND	1	ND	1	ND	1	ND	1	ND	1	ND (RPD=NA)	1
Boron (B)	7440-42-8	mg/L	0.006	0.018	0.109	1	0.108	1	ND	1	0.123	1	0.095	1	0.096 (RPD=1.05)	1
Barium (Ba)	7440-39-3	mg/L	0.001	0.004	0.093	1	0.093	1	ND	1	0.011	1	0.045	1	0.045 (RPD=0.00)	1
Beryllium (Be)	7440-41-7	mg/L	0.001	0.004	BQL(0.002)	1	BQL(0.003)	1	ND	1	ND	1	ND	1	ND (RPD=NA)	1
Calcium (Ca)	7440-70-2	mg/L	0.007	0.023	60.5	1	60.6	1	ND	1	3.35	1	159	1	159 (RPD=0.00)	1
Cadmium (Cd)	7440-43-9	mg/L	0.001	0.004	ND	1	ND	1	ND	1	ND	1	ND	1	ND (RPD=NA)	1
Cobalt (Co)	7440-48-4	mg/L	0.001	0.004	ND	1	ND	1	ND	1	ND	1	ND	1	ND (RPD=NA)	1
Chromium (Cr)	7440-47-3	mg/L	0.001	0.004	ND	1	ND	1	ND	1	ND	1	ND	1	ND (RPD=NA)	1
Copper (Cu)	7440-50-8	mg/L	0.003	0.009	ND	1	ND	1	ND	1	0.033	1	ND	1	ND (RPD=NA)	1
Iron (Fe)	7439-89-6	mg/L	0.019	0.063	BQL(0.019)	1	ND	1	ND	1	0.124	1	ND	1	ND (RPD=NA)	1
Potassium (K)	7440-09-7	mg/L	0.038	0.127	43.6	1	44.0	1	ND	1	0.242	1	2.81	1	2.72 (RPD=3.25)	1
Magnesium (Mg)	7439-95-4	mg/L	0.015	0.049	BQL(0.032)	1	BQL(0.019)	1	ND	1	0.076	1	34.5	1	34.5 (RPD=0.00)	1
Manganese (Mn)	7439-96-5	mg/L	0.001	0.004	ND	1	ND	1	ND	1	BQL(0.001)	1	BQL(0.003)	1	BQL(0.003) (RPD=NA)	1
Molybdenum (Mo)	7439-98-7	mg/L	0.002	0.007	0.013	1	0.014	1	ND	1	BQL(0.006)	1	ND	1	ND (RPD=NA)	1
Sodium (Na)	7440-23-5	mg/L	0.040	0.134	448	1	449	1	ND	1	190	1	61.6	1	61.8 (RPD=0.32)	1
Nickel (Ni)	7440-02-0	mg/L	0.001	0.004	0.004	1	BQL(0.002)	1	ND	1	ND	1	ND	1	ND (RPD=NA)	1
Lead (Pb)	7439-92-1	mg/L	0.003	0.011	ND	1	ND	1	ND	1	ND	1	ND	1	ND (RPD=NA)	1
Antimony (Sb)	7440-36-0	mg/L	0.006	0.019	BQL(0.008)	1	BQL(0.013)	1	ND	1	ND	1	ND	1	ND (RPD=NA)	1
Selenium (Se)	7782-49-2	mg/L	0.005	0.016	ND	1	BQL(0.009)	1	ND	1	ND	1	ND	1	ND (RPD=NA)	1
Strontium (Sr)	7440-24-6	mg/L	0.001	0.004	1.78	1	1.79	1	ND	1	0.058	1	2.53	1	2.55 (RPD=0.79)	1
Titanium (Ti)	7440-32-6	mg/L	0.001	0.004	ND	1	ND	1	ND	1	ND	1	ND	1	ND (RPD=NA)	1
Thallium (Tl)	7440-28-0	mg/L	0.011	0.037	BQL(0.012)	1	ND	1	ND	1	ND	1	0.048	1	0.051 (RPD=6.06)	1
Vanadium (V)	7440-62-2	mg/L	0.002	0.007	BQL(0.004)	1	BQL(0.003)	1	ND	1	ND	1	ND	1	ND (RPD=NA)	1
Zinc (Zn)	7440-66-6	mg/L	0.007	0.024	0.032	1	0.024	1	ND	1	BQL(0.022)	1	0.062	1	0.061 (RPD=1.63)	1
Silicon (Si)	7440-21-3	mg/L	0.037	0.122	2.94	1	2.93	1	ND	1	5.40	1	6.32	1	6.25 (RPD=1.11)	1
Sulfur (S)	7704-34-9	mg/L	0.121	0.403	25.1	1	25.0	1	ND	1	99.9	1	93.5	1	92.2 (RPD=1.40)	1
Phosphorus (P)	7723-14-0	mg/L	0.004	0.014	0.014	1	0.024	1	BQL(0.007)	1	ND	1	ND	1	ND (RPD=NA)	1

Comments:

The MDL's and QL's represent those determined in September 2010, but not yet updated in RSKSOP-213(4).

Notes:

1. If the parameter was detected above the quantitation limit (QL), the numeric result is reported; BQL denotes that the parameter was not detected at or above the quantitation limit; BQL ( ) denotes that the parameter was detected above the method detection limit (MDL) but below QL and the estimated numeric result is reported in parenthesis; ND denotes that the parameter was not detected at all. All the results are corrected with dilution factors (DF), if applicable. Note that the applicable MDL is given only for the case DF=1.

2. " -" denotes that the information is not available or the analyte is not analyzed.

Shaw Environmental and Infrastructure, Inc.

Analytical Service Results Report

Laboratory: Metals **Report Date:** 5/12/11

Technical Directive: 7ME743SF

Analysts: S.Markham/A.Greenwood/S. Bennett

Method: RSKSOP 213(4)

Sample Results (1, 2)

Field Sample ID	EPAMW01-0411	PGDW41-0411	Field Blank	PGDW14-0411	PGDW49 -0411	PGDW23-0411
Sample Lab ID	6030-13	6030-14	6030-15	6032-01	6032-02	6032-03
Date Collected	4/20/11	4/20/11	4/18/11	4/20/11	4/20/11	4/21/11
Date Analyzed	5/11 & 5/12/11	5/11 & 5/12/11	5/10/11	5/11 & 5/12/11	5/11 & 5/12/11	5/11 & 5/12/11

Analytes		Unit	MDL	QL	Data	DF	Data	DF	Data	DF	Data	DF	Data	DF	Data	DF
Names	Codes															
Silver (Ag)	7440-22-4	mg/L	0.015	0.051	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Aluminum (Al)	7429-90-5	mg/L	0.045	0.149	0.328	1	BQL(0.054)	1	ND	1	BQL(0.110)	1	BQL(0.131)	1	ND	1
Arsenic (As)	7440-38-2	mg/L	0.015	0.051	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Boron (B)	7440-42-8	mg/L	0.006	0.018	0.117	1	0.390	1	ND	1	0.106	1	0.660	1	0.104	1
Barium (Ba)	7440-39-3	mg/L	0.001	0.004	0.026	1	0.009	1	ND	1	0.006	1	0.006	1	0.009	1
Beryllium (Be)	7440-41-7	mg/L	0.001	0.004	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Calcium (Ca)	7440-70-2	mg/L	0.007	0.023	13.6	1	452	1	ND	1	154	1	417	1	6.66	1
Cadmium (Cd)	7440-43-9	mg/L	0.001	0.004	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Cobalt (Co)	7440-48-4	mg/L	0.001	0.004	ND	1	ND	1	ND	1	ND	1	BQL(0.002)	1	ND	1
Chromium (Cr)	7440-47-3	mg/L	0.001	0.004	ND	1	ND	1	ND	1	ND	1	BQL(0.001)	1	ND	1
Copper (Cu)	7440-50-8	mg/L	0.003	0.009	ND	1	0.092	1	ND	1	ND	1	0.011	1	ND	1
Iron (Fe)	7439-89-6	mg/L	0.019	0.063	ND	1	ND	1	ND	1	ND	1	2.41	1	ND	1
Potassium (K)	7440-09-7	mg/L	0.038	0.127	24.7	1	3.18	1	ND	1	3.52	1	9.66	1	0.306	1
Magnesium (Mg)	7439-95-4	mg/L	0.015	0.049	0.115	1	46.9	1	ND	1	18.6	1	127	1	0.165	1
Manganese (Mn)	7439-96-5	mg/L	0.001	0.004	ND	1	BQL(0.002)	1	ND	1	0.005	1	0.104	1	BQL(0.002)	1
Molybdenum (Mo)	7439-98-7	mg/L	0.002	0.007	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Sodium (Na)	7440-23-5	mg/L	0.040	0.134	304	1	896	1	ND	1	753	1	982	1	208	1
Nickel (Ni)	7440-02-0	mg/L	0.001	0.004	BQL(0.003)	1	BQL(0.003)	1	ND	1	ND	1	BQL(0.003)	1	ND	1
Lead (Pb)	7439-92-1	mg/L	0.003	0.011	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Antimony (Sb)	7440-36-0	mg/L	0.006	0.019	ND	1	BQL(0.009)	1	ND	1	ND	1	ND	1	ND	1
Selenium (Se)	7782-49-2	mg/L	0.005	0.016	ND	1	BQL(0.008)	1	ND	1	BQL(0.008)	1	ND	1	ND	1
Strontium (Sr)	7440-24-6	mg/L	0.001	0.004	0.441	1	4.84	1	ND	1	1.71	1	8.44	1	0.092	1
Titanium (Ti)	7440-32-6	mg/L	0.001	0.004	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Thallium (Tl)	7440-28-0	mg/L	0.011	0.037	ND	1	0.151	1	ND	1	0.050	1	0.148	1	ND	1
Vanadium (V)	7440-62-2	mg/L	0.002	0.007	ND	1	BQL(0.005)	1	BQL(0.003)	1	ND	1	ND	1	ND	1
Zinc (Zn)	7440-66-6	mg/L	0.007	0.024	ND	1	0.201	1	ND	1	0.117	1	0.121	1	ND	1
Sillicon (Si)	7440-21-3	mg/L	0.037	0.122	10.2	1	4.56	1	ND	1	3.13	1	5.92	1	5.92	1
Sulfur (S)	7704-34-9	mg/L	0.121	0.403	141	1	952	1	ND	1	659	1	1140	5	137	1
Phosphorus (P)	7723-14-0	mg/L	0.004	0.014	BQL(0.008)	1	ND	1	BQL(0.009)	1	ND	1	ND	1	0.019	1

Comments:

The MDL's and QL's represent those determined in September 2010, but not yet updated in RSKSOP-213(4).

Notes:

1. If the parameter was detected above the quantitation limit (QL), the numeric result is reported; BQL denotes that the parameter was not detected at or above the quantitation limit; BQL ( ) denotes that the parameter was detected above the method detection limit (MDL) but below QL and the estimated numeric result is reported in parenthesis; ND denotes that the parameter was not detected at all. All the results are corrected with dilution factors (DF), if applicable. Note that the applicable MDL is given only for the case DF=1.

2. " -" denotes that the information is not available or the analyte is not analyzed.

Shaw Environmental and Infrastructure, Inc.

Analytical Service Results Report

Laboratory: Metals **Report Date:** 5/12/11

Technical Directive: 7ME743SF

Analysts: S.Markham/A.Greenwood/S. Bennett

Method: RSKSOP 213(4)

Sample Results (1, 2)

Field Sample ID	PGDW-44-0411	Field Blank	Equipment Blank			
Sample Lab ID	6032-04	6032-05	6032-06			
Date Collected	4/21/11	4/21/11	4/21/11			
Date Analyzed	5/11 & 5/12/11	5/11 & 5/12/11	5/11 & 5/12/11			

Analytes		Unit	MDL	QL	Data	DF	Data	DF	Data	DF	Data	DF	Data	DF	Data	DF
Names	Codes															
Silver (Ag)	7440-22-4	mg/L	0.015	0.051	ND	1	ND	1	ND	1						
Aluminum (Al)	7429-90-5	mg/L	0.045	0.149	ND	1	ND	1	ND	1						
Arsenic (As)	7440-38-2	mg/L	0.015	0.051	ND	1	ND	1	ND	1						
Boron (B)	7440-42-8	mg/L	0.006	0.018	0.136	1	ND	1	ND	1						
Barium (Ba)	7440-39-3	mg/L	0.001	0.004	0.009	1	ND	1	ND	1						
Beryllium (Be)	7440-41-7	mg/L	0.001	0.004	ND	1	ND	1	ND	1						
Calcium (Ca)	7440-70-2	mg/L	0.007	0.023	259	1	ND	1	ND	1						
Cadmium (Cd)	7440-43-9	mg/L	0.001	0.004	ND	1	ND	1	ND	1						
Cobalt (Co)	7440-48-4	mg/L	0.001	0.004	BQL(0.001)	1	ND	1	ND	1						
Chromium (Cr)	7440-47-3	mg/L	0.001	0.004	ND	1	ND	1	ND	1						
Copper (Cu)	7440-50-8	mg/L	0.003	0.009	ND	1	ND	1	ND	1						
Iron (Fe)	7439-89-6	mg/L	0.019	0.063	2.06	1	ND	1	ND	1						
Potassium (K)	7440-09-7	mg/L	0.038	0.127	2.09	1	BQL(0.096)	1	ND	1						
Magnesium (Mg)	7439-95-4	mg/L	0.015	0.049	19.2	1	ND	1	ND	1						
Manganese (Mn)	7439-96-5	mg/L	0.001	0.004	0.231	1	ND	1	ND	1						
Molybdenum (Mo)	7439-98-7	mg/L	0.002	0.007	ND	1	ND	1	ND	1						
Sodium (Na)	7440-23-5	mg/L	0.040	0.134	1060	5	ND	1	ND	1						
Nickel (Ni)	7440-02-0	mg/L	0.001	0.004	ND	1	ND	1	ND	1						
Lead (Pb)	7439-92-1	mg/L	0.003	0.011	ND	1	ND	1	ND	1						
Antimony (Sb)	7440-36-0	mg/L	0.006	0.019	ND	1	ND	1	ND	1						
Selenium (Se)	7782-49-2	mg/L	0.005	0.016	ND	1	ND	1	ND	1						
Strontium (Sr)	7440-24-6	mg/L	0.001	0.004	2.99	1	ND	1	ND	1						
Titanium (Ti)	7440-32-6	mg/L	0.001	0.004	ND	1	ND	1	ND	1						
Thallium (Tl)	7440-28-0	mg/L	0.011	0.037	0.098	1	ND	1	ND	1						
Vanadium (V)	7440-62-2	mg/L	0.002	0.007	ND	1	ND	1	ND	1						
Zinc (Zn)	7440-66-6	mg/L	0.007	0.024	0.147	1	ND	1	ND	1						
Sillicon (Si)	7440-21-3	mg/L	0.037	0.122	5.29	1	ND	1	ND	1						
Sulfur (S)	7704-34-9	mg/L	0.121	0.403	997	5	ND	1	ND	1						
Phosphorus (P)	7723-14-0	mg/L	0.004	0.014	ND	1	0.014	1	BQL(0.011)	1						

Comments:

The MDL's and QL's represent those determined in September 2010, but not yet updated in RSKSOP-213(4).

Notes:

1. If the parameter was detected above the quantitation limit (QL), the numeric result is reported; BQL denotes that the parameter was not detected at or above the quantitation limit; BQL ( ) denotes that the parameter was detected above the method detection limit (MDL) but below QL and the estimated numeric result is reported in parenthesis; ND denotes that the parameter was not detected at all. All the results are corrected with dilution factors (DF), if applicable. Note that the applicable MDL is given only for the case DF=1.

2. "-" denotes that the information is not available or the analyte is not analyzed.

Shaw Environmental and Infrastructure, Inc.
Analytical Service Results Report

Laboratory: Metals Report Date: 5/12/11

Technical Directive: 7ME743SF

Quality Control Data Summary (1)

Analysts: S.Markham/A.Greenwood/S. Bennett

Method: RSKSOP 213(4)

QC Sample ID	MB	MB	MB	MB	CCC	CCC
Additional ID	BLANK1	BLANK2	BLANK1	BLANK2	CHK STD1	CHK STD2
Date Prepared	4/6/11	4/6/11	4/6/11	4/6/11	4/20/11	4/20/11
Date Analyzed	5/10/11	5/10/11	5/11 & 5/12/11	5/11 & 5/12/11	5/10/11	5/10/11

Analytes		Unit	MDL	QL	Data	True Values	% Rec.	Data	True Values	% Rec.	Data	True Values	% Rec.	Data	True Values	% Rec.	Data	True Values	% Rec.	Data	True Values	% Rec.
Names	Codes																					
Silver (Ag)	7440-22-4	mg/L	0.015	0.051	ND	—	—	ND	—	—	ND	—	—	ND	—	—	—	—	—	—	—	—
Aluminum (Al)	7429-90-5	mg/L	0.045	0.149	ND	—	—	BQL(0.069)	—	—	ND	—	—	ND	—	—	—	—	—	—	—	—
Arsenic (As)	7440-38-2	mg/L	0.015	0.051	ND	—	—	ND	—	—	ND	—	—	ND	—	—	1.99	2.00	99.5	2.00	2.00	100
Boron (B)	7440-42-8	mg/L	0.006	0.018	ND	—	—	ND	—	—	ND	—	—	ND	—	—	—	—	—	—	—	—
Barium (Ba)	7440-39-3	mg/L	0.001	0.004	ND	—	—	ND	—	—	ND	—	—	ND	—	—	—	—	—	—	—	—
Beryllium (Be)	7440-41-7	mg/L	0.001	0.004	ND	—	—	BQL(0.001)	—	—	ND	—	—	BQL(0.003)	—	—	2.01	2.00	100	2.03	2.00	102
Calcium (Ca)	7440-70-2	mg/L	0.007	0.023	ND	—	—	ND	—	—	ND	—	—	ND	—	—	2.00	2.00	100	2.04	2.00	102
Cadmium (Cd)	7440-43-9	mg/L	0.001	0.004	ND	—	—	ND	—	—	ND	—	—	ND	—	—	2.00	2.00	100	2.03	2.00	102
Cobalt (Co)	7440-48-4	mg/L	0.001	0.004	ND	—	—	ND	—	—	ND	—	—	ND	—	—	1.97	2.00	98.5	1.99	2.00	99.5
Chromium (Cr)	7440-47-3	mg/L	0.001	0.004	ND	—	—	ND	—	—	ND	—	—	ND	—	—	1.97	2.00	98.5	1.99	2.00	99.5
Copper (Cu)	7440-50-8	mg/L	0.003	0.009	ND	—	—	ND	—	—	ND	—	—	BQL(0.004)	—	—	1.99	2.00	99.5	2.00	2.00	100
Iron (Fe)	7439-89-6	mg/L	0.019	0.063	ND	—	—	ND	—	—	ND	—	—	ND	—	—	2.02	2.00	101	2.01	2.00	100
Potassium (K)	7440-09-7	mg/L	0.038	0.127	ND			ND			ND			ND								
Magnesium (Mg)	7439-95-4	mg/L	0.015	0.049	ND	—	—	ND	—	—	ND	—	—	ND	—	—	1.95	2.00	97.5	1.93	2.00	96.5
Manganese (Mn)	7439-96-5	mg/L	0.001	0.004	ND	—	—	ND	—	—	ND	—	—	ND	—	—	2.00	2.00	100	2.02	2.00	101
Molybdenum (Mo)	7439-98-7	mg/L	0.002	0.007	BQL(0.004)	—	—	ND	—	—	ND	—	—	ND	—	—	1.99	2.00	99.5	2.00	2.00	100
Sodium (Na)	7440-23-5	mg/L	0.040	0.134	ND	—	—	ND	—	—	ND	—	—	ND	—	—	—	—	—	—	—	—
Nickel (Ni)	7440-02-0	mg/L	0.001	0.004	ND	—	—	ND	—	—	ND	—	—	ND	—	—	1.98	2.00	99.0	1.99	2.00	99.5
Lead (Pb)	7439-92-1	mg/L	0.003	0.011	ND	—	—	ND	—	—	ND	—	—	ND	—	—	2.01	2.00	100	2.02	2.00	101
Antimony (Sb)	7440-36-0	mg/L	0.006	0.019	ND	—	—	ND	—	—	ND	—	—	ND	—	—	2.00	2.00	100	2.00	2.00	100
Selenium (Se)	7782-49-2	mg/L	0.005	0.016	ND	—	—	ND	—	—	ND	—	—	ND	—	—	1.99	2.00	99.5	1.97	2.00	98.5
Strontium (Sr)	7440-24-6	mg/L	0.001	0.004	ND	—	—	ND	—	—	ND	—	—	ND	—	—	1.99	2.00	99.5	2.01	2.00	100
Titanium (Ti)	7440-32-6	mg/L	0.001	0.004	BQL(0.001)	—	—	ND	—	—	BQL(0.002)	—	—	ND	—	—	2.00	2.00	100	2.02	2.00	101
Thallium (Tl)	7440-28-0	mg/L	0.011	0.037	ND	—	—	ND	—	—	ND	—	—	ND	—	—	2.01	2.00	100	2.00	2.00	100
Vanadium (V)	7440-62-2	mg/L	0.002	0.007	BQL(0.002)	—	—	ND	—	—	ND	—	—	ND	—	—	2.04	2.00	102	2.05	2.00	102
Zinc (Zn)	7440-66-6	mg/L	0.007	0.024	ND	—	—	ND	—	—	ND	—	—	ND	—	—	2.03	2.00	102	2.02	2.00	101
Sillicon (Si)	7440-21-3	mg/L	0.037	0.122	ND	—	—	ND	—	—	ND	—	—	ND	—	—	—	—	—	—	—	—
Sulfur (S)	7704-34-9	mg/L	0.121	0.403	ND	—	—	ND	—	—	ND	—	—	ND	—	—	—	—	—	—	—	—
Phosphorus (P)	7723-14-0	mg/L	0.004	0.014	BQL(0.007)	—	—	BQL(0.010)	—	—	BQL(0.005)	—	—	ND	—	—	—	—	—	—	—	—

Comments:

All QC results met criteria established in RSKSOP 213(4).

Notes:

1. MB - Method Blank. CCC - Continuing Calibration Check. A calibration standard analyzed within the batch of samples. LCS - Laboratory Control Spike. A laboratory blank spiked with analytes at known concentrations. MS - Matrix Spike A field sample spiked with known concentrations of analytes. The field sample id is identified. SS - Samples obtained from the second sources are identified by their designated names. DUP - Field sample duplicate analysis. A sample selected by the lab analyst to analyze as a duplicate. It is reported in the sample result section. % REC - Percent Recovery. Calculated as the percentage of the results compared to the true value. It equals % accuracy for CCC.

Shaw Environmental and Infrastructure, Inc.
Analytical Service Results Report

Laboratory: Metals Report Date: 5/12/11

Technical Directive: 7ME743SF

Quality Control Data Summary (1)

Analysts: S.Markham/A.Greenwood/S. Bennett

Method: RSKSOP 213(4)

			QC Sample ID		CCC			CCC			CCC			CCC			CCC			CCC		
			Additional ID		CHK STD3			CHK STD4			CHK STD5			CHK STD6			CHK STD1			CHK STD2		
			Date Prepared		11/23/10			4/13/11			3/25/11			12/1/10			4/20/11			4/20/11		
			Date Analyzed		5/10/11			5/10/11			5/10/11			5/10/11			5/11/11			5/11/11		
Analytes		Unit	MDL	QL	Data	True Values	% Rec.	Data	True Values	% Rec.	Data	True Values	% Rec.	Data	True Values	% Rec.	Data	True Values	% Rec.	Data	True Values	% Rec.
Names	Codes																						
Silver (Ag)	7440-22-4	mg/L	0.015	0.051	2.01	2.00	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aluminum (Al)	7429-90-5	mg/L	0.045	0.149	2.10	2.00	105	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Arsenic (As)	7440-38-2	mg/L	0.015	0.051	—	—	—	—	—	—	—	—	—	—	—	—	1.98	2.00	99.0	2.03	2.00	102
Boron (B)	7440-42-8	mg/L	0.006	0.018	2.01	2.00	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Barium (Ba)	7440-39-3	mg/L	0.001	0.004	2.00	2.00	100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Beryllium (Be)	7440-41-7	mg/L	0.001	0.004	—	—	—	—	—	—	—	—	—	—	—	—	2.00	2.00	100	1.98	2.00	99.0
Calcium (Ca)	7440-70-2	mg/L	0.007	0.023	—	—	—	20.4	20.0	102	—	—	—	—	—	—	1.99	2.00	99.5	1.99	2.00	99.5
Cadmium (Cd)	7440-43-9	mg/L	0.001	0.004	—	—	—	—	—	—	—	—	—	—	—	—	1.99	2.00	99.5	1.97	2.00	98.5
Cobalt (Co)	7440-48-4	mg/L	0.001	0.004	—	—	—	—	—	—	—	—	—	—	—	—	1.99	2.00	99.5	1.97	2.00	98.5
Chromium (Cr)	7440-47-3	mg/L	0.001	0.004	—	—	—	—	—	—	—	—	—	—	—	—	1.99	2.00	99.5	1.97	2.00	98.5
Copper (Cu)	7440-50-8	mg/L	0.003	0.009	—	—	—	—	—	—	—	—	—	—	—	—	2.01	2.00	100	2.04	2.00	102
Iron (Fe)	7439-89-6	mg/L	0.019	0.063	—	—	—	—	—	—	—	—	—	—	—	—	1.99	2.00	99.5	1.95	2.00	97.5
Potassium (K)	7440-09-7	mg/L	0.038	0.127				101	100	101												
Magnesium (Mg)	7439-95-4	mg/L	0.015	0.049				20.4	20.0	102							1.89	2.00	94.5	1.83	2.00	91.5
Manganese (Mn)	7439-96-5	mg/L	0.001	0.004	—	—	—	—	—	—	—	—	—	—	—	—	1.99	2.00	99.5	1.98	2.00	99.0
Molybdenum (Mo)	7439-98-7	mg/L	0.002	0.007	—	—	—	—	—	—	—	—	—	—	—	—	1.98	2.00	99.0	1.96	2.00	98.0
Sodium (Na)	7440-23-5	mg/L	0.040	0.134	—	—	—	103	100	103	—	—	—	—	—	—	—	—	—	—	—	—
Nickel (Ni)	7440-02-0	mg/L	0.001	0.004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Lead (Pb)	7439-92-1	mg/L	0.003	0.011	—	—	—	—	—	—	—	—	—	—	—	—	2.01	2.00	100	2.00	2.00	100
Antimony (Sb)	7440-36-0	mg/L	0.006	0.019	—	—	—	—	—	—	—	—	—	—	—	—	1.99	2.00	99.5	2.03	2.00	102
Selenium (Se)	7782-49-2	mg/L	0.005	0.016	—	—	—	—	—	—	—	—	—	—	—	—	2.01	2.00	100	2.07	2.00	104
Strontium (Sr)	7440-24-6	mg/L	0.001	0.004	—	—	—	—	—	—	—	—	—	—	—	—	2.00	2.00	100	2.04	2.00	102
Titanium (Ti)	7440-32-6	mg/L	0.001	0.004	—	—	—	—	—	—	—	—	—	—	—	—	1.99	2.00	99.5	1.93	2.00	96.5
Thallium (Tl)	7440-28-0	mg/L	0.011	0.037	—	—	—	—	—	—	—	—	—	—	—	—	2.00	2.00	100	2.01	2.00	100
Vanadium (V)	7440-62-2	mg/L	0.002	0.007	—	—	—	—	—	—	—	—	—	—	—	—	2.02	2.00	101	1.99	2.00	99.5
Zinc (Zn)	7440-66-6	mg/L	0.007	0.024	—	—	—	—	—	—	—	—	—	—	—	—	2.00	2.00	100	1.92	2.00	96.0
Sillicon (Si)	7440-21-3	mg/L	0.037	0.122	—	—	—	—	—	—	2.04	2.00	102	—	—	—	—	—	—	—	—	—
Sulfur (S)	7704-34-9	mg/L	0.121	0.403	—	—	—	—	—	—	—	—	—	49.7	50.0	99.4	—	—	—	—	—	—
Phosphorus (P)	7723-14-0	mg/L	0.004	0.014	—	—	—	—	—	—	—	—	—	20.3	20.0	102	—	—	—	—	—	—

Comments:

All QC results met criteria established in RSKSOP 213(4).

Notes:

1. MB - Method Blank. CCC - Continuing Calibration Check. A calibration standard analyzed within the batch of samples. LCS - Laboratory Control Spike. A laboratory blank spiked with analytes at known concentrations. MS - Matrix Spike A field sample spiked with known concentrations of analytes. The field sample Id is identified. SS - Samples obtained from the second sources are identified by their designated names. DUP - Field sample duplicate analysis. A sample selected by the lab analyst to analyze as a duplicate. It is reported in the sample result section. % REC - Percent Recovery. Calculated as the percentage of the results compared to the true value. It equals % accuracy for CCC.

Shaw Environmental and Infrastructure, Inc.
Analytical Service Results Report

Laboratory: Metals Report Date: 5/12/11

Technical Directive: 7ME743SF

Quality Control Data Summary (1)

Analysts: S.Markham/A.Greenwood/S. Bennett

Method: RSKSOP 213(4)

QC Sample ID	CCC			CCC			CCC			CCC			CCC			CCC			CCC		
Additional ID	CHK STD3			CHK STD4			CHK STD5			CHK STD1			CHK STD2			CHK STD3					
Date Prepared	11/23/10			4/13/11			3/25/11			4/20/11			4/20/11			12/1/10					
Date Analyzed	5/11/11			5/11/11			5/11/11			5/12/11			5/12/11			5/12/11					
Analytes		Unit	MDL	QL	Data	True Values	% Rec.	Data	True Values	% Rec.	Data	True Values	% Rec.	Data	True Values	% Rec.	Data	True Values	% Rec.	Data	True Values	% Rec.
Names	Codes																					
Silver (Ag)	7440-22-4	mg/L	0.015	0.051	1.94	2.00	97.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Aluminum (Al)	7429-90-5	mg/L	0.045	0.149	1.92	2.00	96.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Arsenic (As)	7440-38-2	mg/L	0.015	0.051	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Boron (B)	7440-42-8	mg/L	0.006	0.018	2.19	2.00	110	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Barium (Ba)	7440-39-3	mg/L	0.001	0.004	2.04	2.00	102	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Beryllium (Be)	7440-41-7	mg/L	0.001	0.004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Calcium (Ca)	7440-70-2	mg/L	0.007	0.023	—	—	—	19.1	20.0	95.5	—	—	—	—	—	—	—	—	—	—	—	—
Cadmium (Cd)	7440-43-9	mg/L	0.001	0.004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cobalt (Co)	7440-48-4	mg/L	0.001	0.004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Chromium (Cr)	7440-47-3	mg/L	0.001	0.004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Copper (Cu)	7440-50-8	mg/L	0.003	0.009	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Iron (Fe)	7439-89-6	mg/L	0.019	0.063	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Potassium (K)	7440-09-7	mg/L	0.038	0.127	—	—	—	98.5	100	98.5	—	—	—	—	—	—	—	—	—	—	—	—
Magnesium (Mg)	7439-95-4	mg/L	0.015	0.049				18.6	20.0	93.0												
Manganese (Mn)	7439-96-5	mg/L	0.001	0.004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Molybdenum (Mo)	7439-98-7	mg/L	0.002	0.007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sodium (Na)	7440-23-5	mg/L	0.040	0.134	—	—	—	98.6	100	98.6	—	—	—	—	—	—	—	—	—	—	—	—
Nickel (Ni)	7440-02-0	mg/L	0.001	0.004	—	—	—	—	—	—	—	—	—	1.99	2.00	99.5	2.02	2.00	101	—	—	—
Lead (Pb)	7439-92-1	mg/L	0.003	0.011	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Antimony (Sb)	7440-36-0	mg/L	0.006	0.019	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Selenium (Se)	7782-49-2	mg/L	0.005	0.016	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Strontium (Sr)	7440-24-6	mg/L	0.001	0.004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Titanium (Ti)	7440-32-6	mg/L	0.001	0.004	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Thallium (Tl)	7440-28-0	mg/L	0.011	0.037	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Vanadium (V)	7440-62-2	mg/L	0.002	0.007	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Zinc (Zn)	7440-66-6	mg/L	0.007	0.024	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Silicon (Si)	7440-21-3	mg/L	0.037	0.122	—	—	—	—	—	—	2.06	2.00	103	—	—	—	—	—	—	—	—	—
Sulfur (S)	7704-34-9	mg/L	0.121	0.403	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	50.9	50.0	102
Phosphorus (P)	7723-14-0	mg/L	0.004	0.014	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19.9	20.0	99.5

Comments:

All QC results met criteria established in RSKSOP 213(4).

Notes:

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Shaw Environmental and Infrastructure, Inc.
Analytical Service Results Report

Laboratory: Metals Report Date: 5/12/11

Technical Directive: 7ME743SF

Quality Control Data Summary (1)

Analysts: S.Markham/A.Greenwood/S. Bennett

Method: RSKSOP 213(4)

			QC Sample ID	SS					SS					MS					MS							
			Additional ID	MQCAB					MQCAB					PGDW26-0411					EPAMW01-0411							
			Date Prepared	9/1/10 & 3/15/11					9/1/10 & 3/15/11					5/10/11					5/11 & 5/12/11							
			Date Analyzed	5/10/11					5/11 & 5/12/11					5/10/11					5/11 & 5/12/11							
Analytes		Unit	MDL	QL	Data	True Values	% Rec.	Data	True Values	% Rec.	Data	True Values	% Rec.	Data	True Values	% Rec.	Data	True Values	% Rec.	Data	True Values	% Rec.	Data	True Values	% Rec.
Names	Codes																									
Silver (Ag)	7440-22-4	mg/L	0.015	0.051	0.312	0.323	96.6	0.312	0.323	96.6	—	—	—	—	—	—									
Aluminum (Al)	7429-90-5	mg/L	0.045	0.149	0.386	0.361	107	0.397	0.361	110	—	—	—	—	—	—									
Arsenic (As)	7440-38-2	mg/L	0.015	0.051	0.717	0.721	99.4	0.715	0.721	99.2	2.01	ND (2.00)	100	2.05	ND (2.00)	102									
Boron (B)	7440-42-8	mg/L	0.006	0.018	1.51	1.50	101	1.51	1.50	101	—	—	—	—	—	—									
Barium (Ba)	7440-39-3	mg/L	0.001	0.004	0.328	0.330	99.4	0.328	0.330	99.4	—	—	—	—	—	—									
Beryllium (Be)	7440-41-7	mg/L	0.001	0.004	0.588	0.583	101	0.583	0.583	100	2.01	BQL(0.002) (2.00)	100	2.02	ND (2.00)	101									
Calcium (Ca)	7440-70-2	mg/L	0.007	0.023	49.9	50.0	99.8	49.5	50.0	99.0	331	334 (2.00)	NA	15.3	13.6 (2.00)	NA									
Cadmium (Cd)	7440-43-9	mg/L	0.001	0.004	0.224	0.226	99.1	0.225	0.226	99.6	1.96	ND (2.00)	98.0	2.02	ND (2.00)	101									
Cobalt (Co)	7440-48-4	mg/L	0.001	0.004	0.710	0.709	100	0.713	0.709	101	2.00	ND (2.00)	100	1.99	ND (2.00)	99.5									
Chromium (Cr)	7440-47-3	mg/L	0.001	0.004	0.416	0.421	98.8	0.417	0.421	99.0	2.00	ND (2.00)	100	2.01	ND (2.00)	100									
Copper (Cu)	7440-50-8	mg/L	0.003	0.009	0.865	0.864	100	0.859	0.864	99.4	1.99	0.011 (2.00)	99.0	1.97	ND (2.00)	98.5									
Iron (Fe)	7439-89-6	mg/L	0.019	0.063	0.728	0.722	101	0.720	0.722	99.7	1.99	ND (2.00)	99.5	1.99	ND (2.00)	99.5									
Potassium (K)	7440-09-7	mg/L	0.038	0.127	50.5	50.0	101	49.6	50.0	99.2															
Magnesium (Mg)	7439-95-4	mg/L	0.015	0.049	50.3	50.0	101	49.0	50.0	98.0	57.1	56.0 (2.00)	NA	1.97	0.115 (2.00)	92.8									
Manganese (Mn)	7439-96-5	mg/L	0.001	0.004	0.606	0.596	102	0.608	0.596	102	2.13	0.126 (2.00)	100	1.99	ND (2.00)	99.5									
Molybdenum (Mo)	7439-98-7	mg/L	0.002	0.007	0.500	0.510	98.0	0.493	0.510	96.7	1.97	BQL(0.006) (2.00)	98.2	1.98	ND (2.00)	99.0									
Sodium (Na)	7440-23-5	mg/L	0.040	0.134	50.8	50.0	102	50.5	50.0	101	—	—	—	—	—	—									
Nickel (Ni)	7440-02-0	mg/L	0.001	0.004	0.749	0.757	98.9	0.746	0.757	98.5	1.99	ND (2.00)	99.5	2.00	BQL(0.003) (2.00)	99.8									
Lead (Pb)	7439-92-1	mg/L	0.003	0.011	1.80	1.80	100	1.80	1.80	100	2.01	ND (2.00)	100	2.05	ND (2.00)	102									
Antimony (Sb)	7440-36-0	mg/L	0.006	0.019	0.512	0.514	99.6	0.507	0.514	98.6	2.05	BQL(0.012) (2.00)	102	2.02	ND (2.00)	101									
Selenium (Se)	7782-49-2	mg/L	0.005	0.016	0.728	0.737	98.8	0.727	0.737	98.6	2.19	ND (2.00)	110	1.96	ND (2.00)	98.0									
Strontium (Sr)	7440-24-6	mg/L	0.001	0.004	0.084	0.084	100	0.084	0.084	100	5.22	3.31 (2.00)	95.5	2.47	0.441 (2.00)	101									
Titanium (Ti)	7440-32-6	mg/L	0.001	0.004	1.02	1.00	102	1.01	1.00	101	2.02	ND (2.00)	101	2.00	ND (2.00)	100									
Thallium (Tl)	7440-28-0	mg/L	0.011	0.037	0.290	0.293	99.0	0.293	0.293	100	2.19	0.094 (2.00)	105	2.10	ND (2.00)	105									
Vanadium (V)	7440-62-2	mg/L	0.002	0.007	1.33	1.30	102	1.32	1.30	102	2.04	BQL(0.003) (2.00)	102	2.05	ND (2.00)	102									
Zinc (Zn)	7440-66-6	mg/L	0.007	0.024	0.860	0.850	101	0.850	0.850	100	2.15	0.112 (2.00)	102	2.02	ND (2.00)	101									
Silicon (Si)	7440-21-3	mg/L	0.037	0.122	0.941	1.00	94.1	0.963	1.00	96.3	—	—	—	—	—	—									
Sulfur (S)	7704-34-9	mg/L	0.121	0.403	91.5	100	91.5	98.5	100	98.5	—	—	—	—	—	—									
Phosphorus (P)	7723-14-0	mg/L	0.004	0.014	10.1	10.0	101	10.8	10.0	108	—	—	—	—	—	—									

Comments:

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