

**Table 00-14. Selected Non-Radiological Constituents in Brantley Lake Sediment Samples Collected during 2000.**

See CEMRC 2000 Report “Radiological and non-radiological constituents in surface water and sediments at selected reservoirs” for descriptions of locations and methods of data collection.

		Collection Date and Sampling Depth			
		June 8, 2000 (12.2 m depth)		May 31, 2000 (13.3 m depth)	
Analyte	Method	<sup>a</sup> MDL (mg kg <sup>-1</sup> )	Result (mg kg <sup>-1</sup> )	MDL (mg kg <sup>-1</sup> )	Result (mg kg <sup>-1</sup> )
Ag	<sup>b</sup> ICPMS	1.02E-02	6.63E-02	1.02E-02	6.21E-02
Al	ICPMS	8.45E+01	3.64E+04	8.45E+01	3.36E+04
As	<sup>c</sup> GFAA	7.70E-01	5.19E+00	7.70E-01	4.66E+00
Ba	ICPMS	5.30E-01	2.69E+02	5.30E-01	2.70E+02
Be	ICPMS	1.48E-02	5.18E-01	1.48E-02	5.04E-01
Ca	ICPMS	3.85E+03	1.43E+05	3.85E+03	1.40E+05
Cd	ICPMS	1.02E-02	2.74E-01	1.02E-02	2.80E-01
Chloride	<sup>d</sup> IC	2.20E-01	2.23E+03	2.20E-01	3.33E+03
Ce	ICPMS	3.15E-01	3.67E+01	3.15E-01	3.57E+01
Co	ICPMS	1.57E-02	1.08E+01	1.57E-02	1.03E+01
Cr	ICPMS	1.19E+00	3.30E+01	1.19E+00	3.04E+01
Cu	ICPMS	3.78E-01	1.68E+01	3.78E-01	1.60E+01
Dy	ICPMS	9.60E-03	2.43E+00	9.60E-03	2.43E+00
Er	ICPMS	1.07E-02	1.20E+00	1.07E-02	1.19E+00
Eu	ICPMS	1.29E-02	1.24E+00	1.29E-02	1.23E+00
Fe	ICPMS	7.03E+01	2.50E+04	7.03E+01	2.39E+04
Fluoride	IC	1.60E-01	<sup>e</sup> NA	1.60E-01	NA
Gd	ICPMS	1.07E-02	5.94E+00	1.07E-02	5.96E+00
Hg	ICPMS	5.30E-03	2.47E-02	5.30E-03	2.00E-02
K	ICPMS	8.90E+01	8.14E+03	8.90E+01	7.37E+03
La	ICPMS	2.23E-01	1.88E+01	2.23E-01	1.85E+01
Li	ICPMS	3.33E-01	2.08E+01	3.33E-01	2.06E+01
Mg	ICPMS	3.80E+01	2.02E+04	3.80E+01	1.99E+04
Mn	ICPMS	9.30E-01	5.19E+02	9.30E-01	5.05E+02
Mo	ICPMS	1.20E-02	1.48E+00	1.20E-02	1.41E+00
Na	ICPMS	5.75E+01	3.03E+03	5.75E+01	3.73E+03
Nd	ICPMS	9.50E-03	2.05E+01	9.50E-03	1.99E+01
Ni	ICPMS	7.90E-01	3.87E+01	7.90E-01	3.72E+01

Sr	ICPMS	1.29E+00	6.06E+02	1.29E+00	5.89E+02
Sulfate	IC	1.40E+00	7.03E+03	1.40E+00	8.19E+03
Th	ICPMS	7.60E-03	7.56E+00	7.60E-03	7.58E+00
Ti	ICPMS	8.48E+00	1.69E+02	8.48E+00	1.44E+02
Tl	ICPMS	1.44E-02	4.06E-01	1.44E-02	3.60E-01
U	ICPMS	1.65E-01	2.06E+00	1.65E-01	1.89E+00
V	ICPMS	4.28E+00	4.68E+01	4.28E+00	4.11E+01
Zn	ICPMS	3.48E+00	6.34E+01	3.48E+00	6.04E+01
		<b>Collection Date and Sampling Depth</b>			
		<b>June 8, 2000 (12.2 m depth)</b>		<b>June 8, 2000 (12.2 m depth)</b>	
<b>Analyte</b>	<b>Method</b>	<b>MDL (mg kg<sup>-1</sup>)</b>	<b>Result (mg kg<sup>-1</sup>)</b>	<b>MDL (mg kg<sup>-1</sup>)</b>	<b>Result (mg kg<sup>-1</sup>)</b>
Ag	ICPMS	1.02E-02	6.25E-02	1.02E-02	6.35E-02
Al	ICPMS	8.45E+01	3.88E+04	8.45E+01	3.74E+04
As	GFAA	7.70E-01	5.77E+00	7.70E-01	5.44E+00
Ba	ICPMS	5.30E-01	2.70E+02	5.30E-01	2.58E+02
Be	ICPMS	1.48E-02	4.62E-01	1.48E-02	4.99E-01
Ca	ICPMS	3.85E+03	1.41E+05	3.85E+03	1.36E+05
Cd	ICPMS	1.02E-02	2.93E-01	1.02E-02	2.71E-01
Chloride	IC	2.20E-01	2.10E+03	2.20E-01	3.41E+03
Ce	ICPMS	3.15E-01	3.73E+01	3.15E-01	3.72E+01
Co	ICPMS	1.57E-02	1.09E+01	1.57E-02	1.08E+01
Cr	ICPMS	1.19E+00	3.32E+01	1.19E+00	3.12E+01
Cu	ICPMS	3.78E-01	1.62E+01	3.78E-01	1.60E+01
Dy	ICPMS	9.60E-03	2.61E+00	9.60E-03	2.61E+00
Er	ICPMS	1.07E-02	1.25E+00	1.07E-02	1.27E+00
Eu	ICPMS	1.29E-02	1.33E+00	1.29E-02	1.32E+00
Fe	ICPMS	7.03E+01	2.57E+04	7.03E+01	2.54E+04
Fluoride	IC	1.60E-01	NA	1.60E-01	NA
Gd	ICPMS	1.07E-02	6.33E+00	1.07E-02	6.65E+00
Hg	ICPMS	5.30E-03	2.15E-02	5.30E-03	2.33E-02
K	ICPMS	8.90E+01	8.72E+03	8.90E+01	8.34E+03
La	ICPMS	2.23E-01	1.97E+01	2.23E-01	1.95E+01
Li	ICPMS	3.33E-01	1.88E+01	3.33E-01	1.79E+01
Mg	ICPMS	3.80E+01	1.90E+04	3.80E+01	1.86E+04
Mn	ICPMS	9.30E-01	5.48E+02	9.30E-01	5.70E+02
Mo	ICPMS	1.20E-02	1.22E+00	1.20E-02	1.03E+00
Na	ICPMS	5.75E+01	2.94E+03	5.75E+01	3.63E+03
Nd	ICPMS	9.50E-03	2.15E+01	9.50E-03	2.19E+01

Sm	ICPMS	6.70E-03	4.81E+00	6.70E-03	4.87E+00
Sn	ICPMS	8.89E-01	1.72E+00	8.89E-01	1.67E+00
Sr	ICPMS	1.29E+00	5.57E+02	1.29E+00	5.18E+02
Sulfate	IC	1.40E+00	5.70E+03	1.40E+00	6.28E+03
Th	ICPMS	7.60E-03	7.98E+00	7.60E-03	8.09E+00
Ti	ICPMS	8.48E+00	1.72E+02	8.48E+00	1.55E+02
Tl	ICPMS	1.44E-02	4.19E-01	1.44E-02	3.85E-01
U	ICPMS	1.65E-01	1.83E+00	1.65E-01	1.64E+00
V	ICPMS	4.28E+00	4.66E+01	4.28E+00	4.28E+01
Zn	ICPMS	3.48E+00	6.26E+01	3.48E+00	6.20E+01

<sup>a</sup>MDL = Method Detection Limit

<sup>b</sup>ICPMS = Inductively-Coupled Mass Spectrometry

<sup>c</sup>GFAA= Graphite Furnace Atomic Absorption Spectroscopy

<sup>d</sup>IC = Ion Chromatography

<sup>e</sup>NA = Sample was not analyzed for target analyte