

**Table 00-11. Selected Non-Radiological Constituents
in Red Bluff Reservoir Surface Water 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.

Analyte	Collection Date and Sampling Depth					
	June 6, 2000 (0.5 m depth)			June 6, 2000 (11.3 m depth)		
	Method	^a MDL (mg L ⁻¹)	Result (mg L ⁻¹)	Method	MDL (mg L ⁻¹)	Result (mg L ⁻¹)
Ag	^b ICPMS	8.66E-06	<MDL	ICPMS	8.66E-06	<MDL
Al	ICPMS	5.13E-02	6.53E-02	ICPMS	5.13E-02	<MDL
As	^c AA	4.40E-05	1.77E-03	AA	4.40E-05	2.54E-03
Ba	ICPMS	3.44E-04	7.21E-02	ICPMS	3.44E-04	9.57E-02
Be	ICPMS	5.00E-05	<MDL	ICPMS	5.00E-05	5.96E-05
Ca	ICPMS	8.58E+00	6.17E+02	ICPMS	8.58E+00	5.97E+02
Cd	ICPMS	5.00E-05	<MDL	ICPMS	5.00E-05	<MDL
Ce	ICPMS	5.66E-05	9.77E-05	ICPMS	5.66E-05	7.09E-05
Chloride	^d IC	3.20E+00	3.20E+00	IC	3.20E+00	1.63E+03
Co	ICPMS	4.66E-05	6.01E-03	ICPMS	4.66E-05	5.73E-03
Cr	ICPMS	2.89E-04	2.24E-03	ICPMS	2.89E-04	1.86E-03
Cu	ICPMS	7.22E-04	8.26E-03	ICPMS	7.22E-04	8.70E-03
Dy	ICPMS	7.99E-06	<MDL	ICPMS	7.99E-06	<MDL
Er	ICPMS	5.55E-06	<MDL	ICPMS	5.55E-06	8.33E-06
Eu	ICPMS	1.01E-05	2.36E-05	ICPMS	1.01E-05	3.43E-05
Fe	^e GFAA	1.67E-02	6.40E-02	GFAA	1.67E-02	8.23E-02
Fluoride	IC	4.00E+00	<MDL	IC	4.00E+00	<MDL
Gd	ICPMS	7.22E-06	1.51E-05	ICPMS	7.22E-06	1.44E-05
Hg	AA	2.00E-07	2.36E-07	AA	2.00E-07	2.72E-07
K	ICPMS	2.58E+00	3.63E+01	ICPMS	2.58E+00	3.60E+01
La	ICPMS	7.77E-05	<MDL	ICPMS	7.77E-05	7.40E-05
Li	ICPMS	1.78E-04	9.47E-02	ICPMS	1.78E-04	9.32E-02
Mg	ICPMS	1.14E+00	2.34E+02	ICPMS	1.14E+00	2.24E+02
Mn	ICPMS	2.44E-01	1.36E-01	ICPMS	2.44E-01	2.97E-01

Mo	ICPMS	1.08E-04	4.92E-03	ICPMS	1.08E-04	4.31E-03
Na	ICPMS	4.26E+00	1.35E+03	ICPMS	4.26E+00	1.24E+03
Nd	ICPMS	5.33E-05	<MDL	ICPMS	5.33E-05	<MDL
Ni	ICPMS	7.22E-04	2.83E-02	ICPMS	7.22E-04	2.83E-02
Nitrate	IC	1.80E+00	<MDL	IC	1.80E+00	2.38E+00
Pb	ICPMS	1.89E-04	7.76E-04	ICPMS	1.89E-04	9.74E-04
Phosphate	IC	1.44E+00	<MDL	IC	1.44E+00	5.68E+00
Pr	ICPMS	5.44E-05	<MDL	ICPMS	5.44E-05	<MDL
Sb	ICPMS	1.55E-04	4.83E-04	ICPMS	1.55E-04	2.47E-04
Sc	GFAA	7.66E-05	2.58E-03	GFAA	7.66E-05	2.63E-03
Se	ICPMS	4.22E-03	<MDL	ICPMS	4.22E-03	<MDL
Sm	ICPMS	1.02E-04	<MDL	ICPMS	1.02E-04	<MDL
Sn	ICPMS	8.33E-03	<MDL	ICPMS	8.33E-03	<MDL
Sulfate	IC	1.40E+00	2.33E+03	IC	1.40E+00	2.35E+03
Sr	ICPMS	5.66E-02	9.48E+00	ICPMS	5.66E-02	9.18E+00
Th	ICPMS	6.22E-06	1.32E-05	ICPMS	6.22E-06	1.72E-05
Ti	ICPMS	2.66E-04	6.30E-01	ICPMS	2.66E-04	6.63E-01
Tl	ICPMS	3.22E-05	<MDL	ICPMS	3.22E-05	<MDL
U	ICPMS	3.33E-06	9.50E-03	ICPMS	3.33E-06	9.13E-03
V	ICPMS	1.44E-04	4.90E-03	ICPMS	1.44E-04	4.64E-03
Zn	ICPMS	1.44E-03	6.40E-03	ICPMS	1.44E-03	1.09E-02

^aMDL = Method Detection Limit; ICPMS values for 1998 and 1999 were calculated using the manufacturer's recommended method, values for 2000 were calculated using the EPA recommended method.

^bICPMS = Inductively-Coupled Mass Spectrometry

^cAA = Atomic Absorption Spectroscopy

^dIC = Ion Chromatography

^eGFAA = Graphite Furnace Atomic Adsorption Spectroscopy