

Table A4C. Quality-control summary for replicate analyses of trace elements detected in samples collected for the Southern Sierra Groundwater Ambient Monitoring and Assessment (GAMA) study, California, June 2006.

[RSD, relative standard deviation in percent; nd, not detected; µg/L, micrograms per liter]

Constituent	Number of RSDs greater than zero/ number of replicates	Maximum RSD (percent)	Median RSD (percent)	Concentrations for replicates with RSD greater than zero (environmental/replicate) (µg/L)
USGS National Water Quality Laboratory (Schedule 1948)				
Aluminum	1/3	101	0	(nd, 3)
Antimony	0/3	0	0	
Arsenic	1/3	4	0	(0.63, 0.67)
Barium	2/3	1.4	0.7	(49, 50), (109, 108)
Beryllium	0/3	0	0	
Boron	2/3	3.1	1.8	(22, 23), (40, 39)
Cadmium	0/3	0	0	
Chromium	0/3	0	0	
Cobalt	3/3	3.5	1.5	(0.062, 0.059), (0.140, 0.137), (0.144, 0.147)
Copper	1/3	3.8	0	(1.9, 1.8)
Iron	1/3	8	0	(9, 8)
Lead	1/3	7	0	(2.03, 2.23)
Lithium	2/3	4.9	4.3	(1.7, 1.6), (1.5, 1.4)
Manganese	1/3	2	0	(3.2, 3.3)
Molybdenum	2/3	2	1.5	(4.9, 4.8), (27.1, 26.2)
Nickel	3/3	19	14	(0.36, 0.47), (2.74, 2.75), (1.94, 2.06)
Selenium	1/3	2	0	(0.37, 0.36)
Silver	0/3	0.0	0	
Strontium	2/3	0	0.3	(220, 221), (158, 159)
Thallium	0/3	0	0	
Tungsten	1/3	0.3	0	(22.0, 22.1)
Uranium	2/3	1.1	0.2	(1.31, 1.29), (4.47, 4.46)
Vanadium	3/3	1.0	0.6	(11.5, 11.4), (18.8, 18.7), (6.8, 6.7)
Zinc	3/3	23	8.3	(3.4, 4.7), (0.9, 0.8), (2.6, 2.8)
USGS Trace Metals Laboratory				
Iron, total	1/2	101	51	(nd, 3)
Iron (II)	1/2	101	51	(nd, 3)
Arsenic, total	2/2	113	73	(2.6, 1.6), (nd, 1.1)
Arsenic (III)	0/2	0	0	
Chromium, total	1/6	47	0	(2,1)
Chromium (VI)	0/6	0	0	