Table 3. Comparison of TSS and mercury concentrations entering (RD 102) and leaving (spillway) the Cache Creek Settling Basin. The data suggests that the Basin acts as a mercury sink at high flow and a source at low flow.

		Enter		Leave		Leave/Enter	
Date	Flow (CFS)	TSS (mg/l)	Hg (ng/l)	TSS (mg/l)	Hg (ng/l)	TSS (mg/l)	Hg (ng/l)
High Flow							
6 Jan 97	6,820	920	768.5	680	246.4	0.7	0.3
20 Jan 97	2,920	160	40.7	72	26.7	0.5	0.7
21 Jan 97	2,670	160	59.6	41	14.2	0.3	0.2
26 Jan 97	19,800	1,900	1,295.3	1,500	984.6	0.8	0.8
2 Feb 97	6,370	515	145.5	235	71.8	0.5	0.5
23 Feb 97	731	575	36.6	515	17.1	0.9	0.5
Low Flow					mean	0.6	0.5
23 Dec 96	106	20	8.3	62	29.1	3.1	3.5
6 May 97	128	22	13.1	140	63.1	6.4	3.9
27 May 97	146	32	22.7	57	30.1	1.8	1.3
11 June 97	122	25	6.8	89	30.8	3.6	4.5
29 Oct 97	120	18	4.3	broke	12.3		2.9
					mean	3.7	3.2