

Table E-5
Constituent Concentrations Onsite Evaporation Ponds
Solids

Constituent	Units	N	Minimum	Average	Maximum
Antimony	mg/kg	5	<5.0000		<12.000
Arsenic	mg/kg	5	1.800	2.040	3.800
Barium	mg/kg	5	190.000	699.200	1200.000
Beryllium	mg/kg	5	<1.0000		<2.50000
Cadmium	mg/kg	5	<1.0000		<2.50000
Chromium	mg/kg	5	5.60	13.52	23.00
Cobalt	mg/kg	5	5.80	5.36	9.00
Copper	mg/kg	5	11.00	39.00	90.00
Total Lanthanides			NS	NS	NS
Lead	mg/kg	5	13.000	20.600	31.000
Manganese	mg/kg		NS	NS	NS
Mercury	mg/kg	5	0.580	4.298	8.600
Molybdenum	mg/kg	5	7.000	3.800	12.000
Nickel	mg/kg	5	9.000	13.640	20.000
Selenium	mg/kg	5	<0.5000	NA	0.800
Silver	mg/kg	5	<2.5000	NA	<5.0000
Strontium	mg/kg		NS		NS
Thallium	mg/kg	5	<0.5000	NA	<1.0000
Vanadium	mg/kg	5	24.000	47.400	80.000
Zinc	mg/kg	5.00	40.00	57.00	100.00
Gross Alpha	pCi/g	1	NA		16.60
Gross Beta	pCi/g	1	NA		12.00
Radium-226	pCi/g	1	NA		0.70
Radium-228	pCi/g	0	NS	NS	NS
Radium (Total)	pCi/g	1	NA		0.70
Thorium-228	pCi/g	3	1.75	2.08	2.44
Thorium-230	pCi/g	3	0.08	0.18	0.34
Thorium-232	pCi/g	3	0.12	0.65	1.46
Thorium (Total)	pCi/g	4	2.22	2.91	4.20
Thorium (Total)	mg/kg		NS	NS	NS
Uranium-234	pCi/g	3	4.06	25.15	54.70
Uranium-235	pCi/g	3	0.14	0.72	1.59
Uranium-238	pCi/g	3	2.10	13.30	28.90
Uranium (Total)	pCi/g	4	6.30	39.17	85.19
Uranium (Total)	mg/kg		NS	NS	NS

Concentrations in samples collected from 1/23/02 - 5/29/03. Board staff collected one sample analyzed for the 17 metals listed in 22CCR§66261.24. Molycorp collected the rest of the samples & reported results in quarterly self monitoring reports.

NS - not analyzed

ND - Not detected

mg/KG = Milligrams per Kilogram

pCi/L = Picocuries per Liter