Table W11-11: Increased WRSA Infiltration Sensitivity Scenario Pit Lake Water Quality

Parameter [1]	Modelled Pit Lake Water Quality (mg/L)	
	Untreated	Treated [2]
Aluminum	4.98647	0.27350
Ammonia (un-ionized)	0.00377	0.00377 [3]
Ammonia (total)	0.09917	0.09917 [3]
Antimony	0.00116	0.00116 [3]
Arsenic	0.00326	0.00326 [3]
Beryllium	0.00125	0.00125 [3]
Boron	0.05586	0.05586 [3]
Cadmium	0.00045	0.00020
Chloride	1.62200	1.62200 [3]
Chromium	0.00104	0.00104 [3]
Cobalt	0.04418	0.00090
Copper	0.01705	0.00500
Cyanide	0.00306	0.00306 [3]
Iron	15.69287	1.49500
Lead	0.01321	0.00500
Mercury	0.00003	0.00002
Molybdenum	0.00101	0.00101 [3]
Nickel	0.33470	0.02500
Nitrate	0.07221	0.07221 [3]
Phosphorus	0.07881	0.03040
Selenium	0.00106	0.00106 [3]
Silver	0.00010	0.00010 [3]
Sulphate	356.90177	20.00000
Thallium	0.00035	0.00030
Uranium	0.01120	0.00500
Vanadium	0.00128	0.00128 [3]
Zinc	0.20037	0.03000

Notes: (1) Only those parameters that have available water quality parameters were modelled.

(2) The treated water quality within the pit lake is consistent with the Treasury Metals commitment to effluent quality (see Table W4-1).

(3) Where the modelled untreated pit lake water quality was the same or lower than the Treasury Metals commitment, the lower untreated pit lake quality was used in the modelling.