



Taseko Prosperity Gold-Copper Project

Appendix 3-7-GG

Saturated Tailings + PAG Rock Porewater Chemistry

pH	Acidity (pH 8.3) mgCaCO3/L	Alkalinity mgCaCO3/L	SO4 mg/L	Nitrate, as N mg/L	Nitrite, as N mg/L	Nitrogen, Ammonia as N mg/L	Cl mg/L	F mg/L	Hardness mgCaCO3/L	Al mg/L	Sb mg/L	As mg/L	Ba mg/L	Be mg/L	Bi mg/L	B mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Pb mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg ug/L	Mo mg/L	Ni mg/L	P mg/L	K mg/L	Se mg/L	Si mg/L	Ag mg/L	Na mg/L	Sr mg/L	S mg/L	Tl mg/L	Sn mg/L	Ti mg/L	U mg/L	V mg/L	Zn mg/L	Zr mg/L
6.54	76	69	1886	NS	NS	NS	36	0.41	2690	0.020	0.0054	0.033	0.042	0.00030	0.00030	0.26	0.0015	703	0.0014	0.0025	0.10	28	0.0043	0.014	70	1.91	0.080	0.12	0.068	1.00	36	0.0089	9.2	0.00046	62	8.4	708	0.00030	0.0014	0.018	0.0058	0.0011	0.021	0.050

Source: Compilation of 'worst case' values from Phase 5 saturated tailings and saturated PAG rock columns through November 2, 2007 lab report (eTaseko Kinetic Testing (Nov 2 07).xls)

Note: 'NS' indicates value not specified

Tailings Beach Runoff Chemistry

pH	Acidity (pH 8.3) mgCaCO3/L	Alkalinity mgCaCO3/L	SO4 mg/L	Nitrate, as N mg/L	Nitrite, as N mg/L	Nitrogen, Ammonia as N mg/L	Cl mg/L	F mg/L	Hardness mgCaCO3/L	Al mg/L	Sb mg/L	As mg/L	Ba mg/L	Be mg/L	Bi mg/L	B mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Pb mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg ug/L	Mo mg/L	Ni mg/L	P mg/L	K mg/L	Se mg/L	Si mg/L	Ag mg/L	Na mg/L	Sr mg/L	S mg/L	Tl mg/L	Sn mg/L	Ti mg/L	U mg/L	V mg/L	Zn mg/L	Zr mg/L
NS	12	182	1950	NS	NS	NS	2	0.33	2020	0.007	0.0024	0.002	0.020	0.00030	0.00001	0.28	0.0002	729	0.0001	0.0035	0.02	0	0.0003	0.016	105	0.52	0.000	0.06	0.011	0.00	42	0.0100	5.5	0.00001	19	9.8	599	0.00003	0.0012	0.000	0.0035	0.0005	0.004	0.000

Source: Compilation of 'worst case' values from Phase 5 unsaturated tailings columns from Week 6 through Week 37 (reported in December 6, 2007 lab report (eTaseko Kinetic Testing (Dec 6 07).xls))

Note: 'NS' indicates value not specified

Tailings Beach Infiltration Chemistry

pH	Acidity (pH 8.3) mgCaCO3/L	Alkalinity mgCaCO3/L	SO4 mg/L	Nitrate, as N mg/L	Nitrite, as N mg/L	Nitrogen, Ammonia as N mg/L	Cl mg/L	F mg/L	Hardness mgCaCO3/L	Al mg/L	Sb mg/L	As mg/L	Ba mg/L	Be mg/L	Bi mg/L	B mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Pb mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg ug/L	Mo mg/L	Ni mg/L	P mg/L	K mg/L	Se mg/L	Si mg/L	Ag mg/L	Na mg/L	Sr mg/L	S mg/L	Tl mg/L	Sn mg/L	Ti mg/L	U mg/L	V mg/L	Zn mg/L	Zr mg/L
NS	76	43	1886	NS	NS	NS	36	0.41	2690	0.020	0.0054	0.033	0.042	0.00030	0.00030	0.26	0.0015	703	0.0014	0.0025	0.10	28	0.0043	0.014	70	1.91	0.080	0.12	0.068	1.00	36	0.0589	9.2	0.00046	62	8.4	708	0.00030	0.0014	0.018	0.0058	0.0011	0.031	0.050

Notes: 1) Source values for parameters are worst case values from Phase 5 saturated tailings columns, except for the grey highlighted cells
 Grey shading indicates concentrations which were extracted from the BC porphyry database (Day and Rees 2006), using median values for neutral conditions
 Therefore, source term values are the greater of EITHER the Prosperity tailings porewater prediction OR the median value for neutral conditions from the BC porphyry database
 2) 'NS' indicates value not specified

West Embankment Seepage Chemistry

pH	Acidity (pH 8.3) mgCaCO3/L	Alkalinity mgCaCO3/L	SO4 mg/L	Nitrate, as N mg/L	Nitrite, as N mg/L	Nitrogen, Ammonia as N mg/L	Cl mg/L	F mg/L	Hardness mgCaCO3/L	Al mg/L	Sb mg/L	As mg/L	Ba mg/L	Be mg/L	Bi mg/L	B mg/L	Cd mg/L	Ca mg/L	Cr mg/L	Co mg/L	Cu mg/L	Fe mg/L	Pb mg/L	Li mg/L	Mg mg/L	Mn mg/L	Hg ug/L	Mo mg/L	Ni mg/L	P mg/L	K mg/L	Se mg/L	Si mg/L	Ag mg/L	Na mg/L	Sr mg/L	S mg/L	Tl mg/L	Sn mg/L	Ti mg/L	U mg/L	V mg/L	Zn mg/L	Zr mg/L
6.74	76	56	1886	0.94	0.0016	1.03	36	0.41	2690	0.020	0.0054	0.033	0.042	0.00030	0.00030	0.26	0.0015	703	0.0014	0.0025	0.10	2	0.0043	0.014	70	1.91	0.080	0.12	0.068	1.00	36	0.0339	9.2	0.00046	62	8.4	708	0.00030	0.0014	0.018	0.0058	0.0011	0.026	0.050

Source: Weighted average of tailings porewater (2007-11-21) and beach infiltration chemistry (2008-01-31) (weighting is 50%/50%, from KP water balance)

Note: Nitrate and ammonia concentrations adopted from Year 20 TSF Pond prediction; nitrite concentration adopted from background concentrations (represented by baseline water chemistry at Station W1)