



# **Taseko Prosperity Gold-Copper Project**

## **Appendix 3-7-Z**

Rock Unit	SO4	Cl	F	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li
Units	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
Potassic Average	187	0.24	0.018	0.025	0.0014	0.00052	0.0076994	1.9E-05	1.8E-05	0.0048	0.0000089	79	8.8E-05	1.4E-05	0.0014	0.0022	2.8E-05	0.000432
Sericite- iron carbonate Average	4.1	NA	NA	0.025	0.0033	0.0011	0.0034	0.00024	0.00024	0.002183	0.000024	2.9	0.00024	0.000049	0.000243	0.015	0.00057	0.000485
Propylitic Average	3.2	NA	NA	0.023	0.0031	0.0003882	0.0041	0.00024	0.00024	0.0027	2.4E-05	2.8	0.00024	4.9E-05	0.000244	0.014	9.9E-05	0.000486
Phyllic Average	7.0	NA	NA	0.033	0.0081	0.000732	0.0046	0.00048	0.00048	0.0025	4.8E-05	3.9	0.00048	9.5E-05	0.000445	0.014	0.00017	0.000953
Low Grade Ore Average	10	0.24	0.026	0.041	0.0056	0.0006358	0.0024	0.000022	2.2E-05	0.0048	1.1E-05	6.2	0.00010	1.0E-05	0.0011	0.0025	2.2E-05	0.000399
Ore Average	259	0.56	0.046	0.011	0.0090	0.0010	0.0077	2.6E-05	2.57E-05	0.011	0.00024	107	0.00011	0.00038	0.0083	0.0042	0.00020	0.0011
Tertiary Basalt	3.0	0.23	0.024	0.016	7.4E-05	0.0011983	0.0003739	6.6E-06	4.5E-06	0.0026	2.5E-06	0.83	5.1E-05	2.3E-05	0.00038	0.0085	0.00037	0.0002

Rock Unit	Mg	Mn	Hg	Ni	P	K	Se	SiO2	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
Units	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk	mg/kg/wk
Potassic Average	0.8	7.1E-03	5.8E-06	2.0E-04	9.5E-04	9.2E-01	3.1E-04	4.0E-01	4.3E-06	5.5E-01	5.0E-01	6.1E+01	1.9E-05	3.5E-05	4.3E-04	1.2E-04	2.8E-04	3.1E-04	1.8E-03
Sericite- iron carbonate Average	3.2	0.0028	NA	0.00005	NA	0.44	0.00049	0.206	0.00000	0.97	0.025	NA	0.00007	0.00005	0.0049	NA	0.0005	0.0005	NA
Propylitic Average	1.4	2.3E-03	NA	4.9E-05	NA	2.2E-01	4.9E-04	2.3E-01	4.9E-06	9.3E-01	1.6E-01	NA	2.4E-05	4.9E-05	4.7E-03	NA	4.9E-04	8.0E-04	NA
Phyllic Average	2.1	0.0017	NA	0.00010	NA	0.37	0.00095	0.201	0.00001	0.94	0.030	NA	0.00005	0.00010	0.0047	NA	0.0010	0.0013	NA
Low Grade Ore Average	1.6	0.0095	4.7E-06	0.00039	5.7E-03	0.87	0.00030	0.348	0.00000	0.27	0.126	3.5E+00	0.00002	0.00006	0.0002	6.7E-05	0.0003	0.0004	2.2E-03
Ore Average	4.8	0.0300	5.6E-06	0.00042	1.1E-03	2.69	0.00119	0.479	0.00001	2.35	0.767	8.8E+01	0.00003	0.00004	0.0012	3.1E-04	0.0001	0.0020	2.4E-03
Tertiary Basalt	0.5	0.0006	4.5E-06	0.00015	2.3E-02	0.42	0.00005	2.500	0.00000	1.34	0.006	1.8E+00	0.00000	0.00003	0.0014	4.5E-06	0.0067	0.0002	2.9E-04

Notes: -'NA' indicates data not available.  
 -Where data were not available, maximum release rates observed in other alteration types were adopted

Material Unit	SO4	Cl	F	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Overburden	1.8	1.2	0.060	0.012	0.00010	0.0002849	0.0041	0.0005	0.0005	0.034	0.000045	16	0.00055	0.00050	0.000802	0.31	0.000055	0.005

Material Unit	Mg	Mn	Hg	Ni	P	K	Se	SiO2	Ag	Na	Sr	S	Tl	Sn	Ti	U	V	Zn	Zr
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Overburden	13	0.24	0.000009	0.0028	0.018	1.1	0.0005	7.3	0.000012	8.3	0.050	N/A	0.00033	0.0001	0.01	0.00008	0.0010	0.0014	0.0001

Note: Background water quality at Station W1 (Upper Fish Creek) was adopted as the source term for overburden. Adopted concentrations were applied to estimated annual runoff volumes to compute annual loadings.