PROSPERITY
A Gold-Copper Project of Taseko Mines Limited

Taseko Prosperity Gold-Copper Project

Appendix 5-4-R

Taseko Mines Limited

Appendix 5-4-R Soil Metal Loading for the Operation Phase

						Camp Location		Nemiah Valley		Southern Area of Minesite Footprint		NW Corner of Mine Site		Maximum Point of Impingement		Maximum on/outside of Disturbance Boundary	
Date	13-Aug-96	Metal	CCME Standard		Baseline	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance
		Arsenic T-As	12	0.7	420	54.63	124.11	0.00	1981912.92	0.04	164108.40	0.24	28011.87	1967.74	3.45	51.15	132.55
Plot Number	96-06	Barium T-Ba	750	67	40200	189.75	2159.69	0.01	41418902.57	0.14	2949627.33	0.83	491197.26	6835.73	59.95	177.55	2308.08
Soil Horizon	A Horiz.	Boron T-B	2	10	6000	15.31	-313.47	0.00	-6011704.06	0.01	-428120.63	0.07	-71294.32	551.64	-8.70	14.33	-335.00
Parent Materials	Colluvial	Cadmium T-Cd	1.4	2	1200	8.01	-44.94	0.00	-390619.31	0.01	-54036.11	0.04	-9974.31	289.10	-1.25	7.47	-48.17
	veneer over	Chromium T-Cr	64	54	32400	370.06	16.21	0.02	307524.69	0.27	22103.62	1.63	3686.02	13331.38	0.45	346.28	17.33
	morainal	Copper T-Cu	63	9	5400	7720.71	4.20	0.40	80189.00	5.66	5728.01	33.95	954.31	278138.67	0.12	7224.43	4.48
	blanket	Lead T-Pb	70	3	1800	14.93	2692.13	0.00	10726429.32	0.02	2264650.09	0.08	534508.66	536.28	74.96	14.14	2843.09
		Mercury T-Hg	6.6	0.008	4.8	1.35	2932.56	0.00	5033467.66	0.00	1503684.03	0.01	480446.87	48.19	82.08	1.30	3037.13
Soil group and Subgroup	Orthic	Molybdenum T-Mo	5	4	2400	129.52	4.63	0.01	88842.92	0.09	6326.91	0.57	1053.61	4665.95	0.13	121.19	4.95
Tentative Identification	Dystric	Selenium T-Se	1	0.1	60	8.06	67.00	0.00	447287.89	0.01	70051.16	0.04	14221.31	289.93	1.86	7.59	71.18
	Brunisol	Zinc T-Zn	200	139	83400	90.18	405.88	0.01	2878472.38	0.08	433519.60	0.42	86674.76	3244.09	11.28	84.83	431.46

						Camp Location		Nemiah Valley		Southern Area of Minesite Footprint		NW Corner of Mine Site		Maximum Point of Impingement		Maximum on/outside of Disturbance Boundary	
Date	14-Aug-96	Metal	CCME Standard		Baseline	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance
		Arsenic T-As	12	2.23	1338	54.63	107.30	0.00	1713565.42	0.04	141888.41	0.24	24219.11	1967.74	2.98	51.15	114.60
Plot Number	96-10	Barium T-Ba	750	63	37800	189.75	2172.34	0.01	41661473.01	0.14	2966901.87	0.83	494073.96	6835.73	60.30	177.55	2321.60
Soil Horizon	Ah	Boron T-B	2	10	6000	15.31	-313.47	0.00	-6011704.06	0.01	-428120.63	0.07	-71294.32	551.64	-8.70	14.33	-335.00
Parent Materials	Morainal	Cadmium T-Cd	1.4	2	1200	8.01	-44.94	0.00	-390619.31	0.01	-54036.11	0.04	-9974.31	289.10	-1.25	7.47	-48.17
	plain,	Chromium T-Cr	64	23	13800	370.06	66.48	0.02	1260851.24	0.27	90624.86	1.63	15112.66	13331.38	1.85	346.28	71.04
	rolling to	Copper T-Cu	63	32	19200	7720.71	2.41	0.40	46034.43	5.66	3288.30	33.95	547.85	278138.67	0.07	7224.43	2.57
	hummocky	Lead T-Pb	70	5	3000	14.93	2611.77	0.00	10406237.40	0.02	2197048.59	0.08	518553.18	536.28	72.72	14.14	2758.22
		Mercury T-Hg	6.6	0.014	8.4	1.35	2929.89	0.00	5028886.22	0.00	1502315.39	0.01	480009.57	48.19	82.01	1.30	3034.36
Soil group and Subgroup	Orthic	Molybdenum T-Mo	5	4	2400	129.52	4.63	0.01	88842.92	0.09	6326.91	0.57	1053.61	4665.95	0.13	121.19	4.95
Tentative Identification	Eutric	Selenium T-Se	1	0.1	60	8.06	67.00	0.00	447287.89	0.01	70051.16	0.04	14221.31	289.93	1.86	7.59	71.18
	Brunisol	Zinc T-Zn	200	96	57600	90.18	691.99	0.01	4907559.47	0.08	739115.38	0.42	147773.35	3244.09	19.23	84.83	735.60

						Camp Location		Nemiah Valley		Southern Area of Minesite Footprint		NW Corner of Mine Site		Maximum Point of Impingement		Maximum on/outside of Disturbance Boundary	
Date	14-Aug-96	Metal	CCME Standard		Baseline	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance
		Arsenic T-As	12	99.9	49950	54.63	-804.50	0.00	-12847355.88	0.04	-1063800.03	0.24	-181581.37	1967.74	-22.34	51.15	-859.23
Plot Number	96-13	Barium T-Ba	750	249	124500	189.75	1320.16	0.01	25318289.64	0.14	1803029.88	0.83	300256.01	6835.73	36.65	177.55	1410.87
Soil Horizon	Oh	Boron T-B	2	10	5000	15.31	-261.22	0.00	-5009753.38	0.01	-356767.19	0.07	-59411.93	551.64	-7.25	14.33	-279.17
Parent Materials	Organic	Cadmium T-Cd	1.4	2	1000	8.01	-37.45	0.00	-325516.09	0.01	-45030.09	0.04	-8311.93	289.10	-1.04	7.47	-40.14
	blanket	Chromium T-Cr	64	63	31500	370.06	1.35	0.02	25627.06	0.27	1841.97	1.63	307.17	13331.38	0.04	346.28	1.44
	over fluvial	Copper T-Cu	63	68	34000	7720.71	-0.32	0.40	-6187.42	5.66	-441.98	33.95	-73.64	278138.67	-0.01	7224.43	-0.35
	terrace	Lead T-Pb	70	4	2000	14.93	2209.96	0.00	8805277.80	0.02	1859041.12	0.08	438775.77	536.28	61.54	14.14	2333.88
		Mercury T-Hg	6.6	0.095	47.5	1.35	2411.55	0.00	4139197.40	0.00	1236532.24	0.01	395088.35	48.19	67.50	1.30	2497.54
Soil group and Subgroup	Terric	Molybdenum T-Mo	5	4	2000	129.52	3.86	0.01	74035.76	0.09	5272.42	0.57	878.01	4665.95	0.11	121.19	4.13
Tentative Identification	Mesisol	Selenium T-Se	1	1.2	600	8.06	-12.41	0.00	-82831.09	0.01	-12972.44	0.04	-2633.58	289.93	-0.34	7.59	-13.18
		Zinc T-Zn	200	63	31500	90.18	759.63	0.01	5387304.87	0.08	811368.65	0.42	162219.15	3244.09	21.12	84.83	807.51

						Camp Location		Nemiah Valley		Southern Area of Minesite Footprint		NW Corner of Mine Site		Maximum Point of Impingement		Maximum on/outside of Disturbance Boundary	
Date		Metal	CME Standard		Baseline	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance
		Arsenic T-As	12	5.96	2980	54.63	55.28	0.00	882798.97	0.04	73098.43	0.24	12477.26	1967.74	1.53	51.15	59.04
Plot Number	95-14	Barium T-Ba	750	50	25000	189.75	1844.54	0.01	35374855.78	0.14	2519203.43	0.83	419519.37	6835.73	51.20	177.55	1971.27
Soil Horizon	Oh1	Boron T-B	2	28	14000	15.31	-848.97	0.00	-16281698.50	0.01	-1159493.37	0.07	-193088.79	551.64	-23.57	14.33	-907.30
Parent Materials	Organic,	Cadmium T-Cd	1.4	2	1000	8.01	-37.45	0.00	-325516.09	0.01	-45030.09	0.04	-8311.93	289.10	-1.04	7.47	-40.14
	Sedge-	Chromium T-Cr	64	2	1000	370.06	83.77	0.02	1588877.58	0.27	114202.05	1.63	19044.41	13331.38	2.33	346.28	89.52
	Willow Fen	Copper T-Cu	63	15	7500	7720.71	3.11	0.40	59399.26	5.66	4242.97	33.95	706.90	278138.67	0.09	7224.43	3.32
		Lead T-Pb	70	2	1000	14.93	2276.93	0.00	9072104.40	0.02	1915375.70	0.08	452072.00	536.28	63.40	14.14	2404.61
		Mercury T-Hg	6.6	0.086	43	1.35	2414.89	0.00	4144924.19	0.00	1238243.04	0.01	395634.98	48.19	67.59	1.30	2500.99
Soil group and Subgroup	Typic	Molybdenum T-Mo	5	4	2000	129.52	3.86	0.01	74035.76	0.09	5272.42	0.57	878.01	4665.95	0.11	121.19	4.13
Tentative Identification	Humisol	Selenium T-Se	1	0.3	150	8.06	43.42	0.00	289908.82	0.01	45403.53	0.04	9217.51	289.93	1.21	7.59	46.14
		Zinc T-Zn	200	45	22500	90.18	859.44	0.01	6095125.95	0.08	917971.83	0.42	183532.61	3244.09	23.89	84.83	913.60

						Camp Location		Nemiah Valley		Southern Area of Minesite Footprint		NW Corner of Mine Site		Maximum Point of Impingement		Maximum on/outside of Disturbance Boundary	
Date	05-Apr-03	Metal	CME Standard		Baseline	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance
		Arsenic T-As	12	2.78	1668	54.63033252	101.2624259	0.003420937	1617100.631	0.041314155	133900.8371	0.242040246	22855.70309	1967.743701	2.81134174	51.15038038	108.1516884
Plot Number	95-22	Barium T-Ba	750	57	34200	189.75	2191.31	0.01	42025328.66	0.14	2992813.67	0.83	498389.02	6835.73	60.83	177.55	2341.87
Soil Horizon	Aef	Boron T-B	2	10	6000	15.31	-313.47	0.00	-6011704.06	0.01	-428120.63	0.07	-71294.32	551.64	-8.70	14.33	-335.00
Parent Materials	Thick Till	Cadmium T-Cd	1.4	2	1200	8.01	-44.94	0.00	-390619.31	0.01	-54036.11	0.04	-9974.31	289.10	-1.25	7.47	-48.17
	blanket,	Chromium T-Cr	64	33	19800	370.06	50.26	0.02	953326.55	0.27	68521.23	1.63	11426.65	13331.38	1.40	346.28	53.71
	2-layered	Copper T-Cu	63	21	12600	7720.71	3.26	0.40	62369.23	5.66	4455.12	33.95	742.24	278138.67	0.09	7224.43	3.49
		Lead T-Pb	70	3	1800	14.93	2692.13	0.00	10726429.32	0.02	2264650.09	0.08	534508.66	536.28	74.96	14.14	2843.09
		Mercury T-Hg	6.6	0.008	4.8	1.35	2932.56	0.00	5033467.66	0.00	1503684.03	0.01	480446.87	48.19	82.08	1.30	3037.13
Soil group and Subgroup	Podzolic	Molybdenum T-Mo	5	4	2400	129.52	4.63	0.01	88842.92	0.09	6326.91	0.57	1053.61	4665.95	0.13	121.19	4.95
Tentative Identification	Gray	Selenium T-Se	1	0.1	60	8.06	67.00	0.00	447287.89	0.01	70051.16	0.04	14221.31	289.93	1.86	7.59	71.18
		Zinc T-Zn	200	64	38400	90.18	904.90	0.01	6417577.77	0.08	966535.50	0.42	193242.08	3244.09	25.15	84.83	961.93

Date	14-Aug-96	Metal	CME Standard			Camp Location		Nemiah Valley		Southern Area of Minesite Footprint		NW Corner of Mine Site		Maximum Point of Impingement		Maximum on/outside of Disturbance Boundar	
		Arsenic T-As	12		Baseline	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance	Annual Deposit	# Yrs to Exceedance
Plot Number	950824	Barium T-Ba	750	0.12	72	54.63	130.48	0.00	2083639.42	0.04	172531.66	0.24	29449.65	1967.74	3.62	51.15	139.35
Soil Horizon		Boron T-B	2	39	23400	189.75	2248.23	0.01	43116895.64	0.14	3070549.09	0.83	511334.19	6835.73	62.41	177.55	2402.70
Parent Materials	95-26	Cadmium T-Cd	1.4	10	6000	15.31	-313.47	0.00	-6011704.06	0.01	-428120.63	0.07	-71294.32	551.64	-8.70	14.33	-335.00
	AC	Chromium T-Cr	64	2	1200	8.01	-44.94	0.00	-390619.31	0.01	-54036.11	0.04	-9974.31	289.10	-1.25	7.47	-48.17
	Residual,	Copper T-Cu	63	72	43200	370.06	-12.97	0.02	-246019.75	0.27	-17682.90	1.63	-2948.81	13331.38	-0.36	346.28	-13.86
	lava plain	Lead T-Pb	70	45	27000	7720.71	1.40	0.40	26729.67	5.66	1909.34	33.95	318.10	278138.67	0.04	7224.43	1.49
	very shallow	Mercury T-Hg	6.6	2	1200	14.93	2732.31	0.00	10886525.28	0.02	2298450.84	0.08	542486.41	536.28	76.08	14.14	2885.53
Soil group and Subgroup	soil	Molybdenum T-Mo	5	0.006	3.6	1.35	2933.45	0.00	5034994.80	0.00	1504140.25	0.01	480592.64	48.19	82.11	1.30	3038.05
Tentative Identification	Lithic	Selenium T-Se	1	4	2400	129.52	4.63	0.01	88842.92	0.09	6326.91	0.57	1053.61	4665.95	0.13	121.19	4.95
	Regosol	Zinc T-Zn	200	0.1	60	8.06	67.00	0.00	447287.89	0.01	70051.16	0.04	14221.31	289.93	1.86	7.59	71.18
				90	54000	90.1753373	731.907437	0.012715078	5190687.905	0.084425249	781756.6511	0.422268281	156298.7392	3244.088439	20.34469813	84.82904916	778.0353623

Date	08-Apr-03	Metal	CME Standard			Camp Location		Nemiah Valley		Southern Area of Minesite Footprint		NW Corner of Mine Site		Maximum Point of Impingement		Maximum on/outside of Disturbance Boundar	
		Arsenic T-As	12	1.21	726	54.63033252	118.5055939	0.003420937	1892463.754	0.041314155	156701.7389	0.242040246	26747.61783	1967.743701	3.290062622	51.15038038	126.5679737
Plot Number	95-30	Barium T-Ba	750	56	33600	189.75	2194.48	0.01	42085971.27	0.14	2997132.31	0.83	499108.19	6835.73	60.92	177.55	2345.25
Soil Horizon	Ah	Boron T-B	2	12	7200	15.31	-391.83	0.00	-7514630.08	0.01	-535150.79	0.07	-89117.90	551.64	-10.88	14.33	-418.75
Parent Materials	Organic	Cadmium T-Cd	1.4	2	1200	8.01	-44.94	0.00	-390619.31	0.01	-54036.11	0.04	-9974.31	289.10	-1.25	7.47	-48.17
	veneer	Chromium T-Cr	64	38	22800	370.06	42.16	0.02	799564.20	0.27	57469.42	1.63	9583.64	13331.38	1.17	346.28	45.05
	over fluvial	Copper T-Cu	63	30	18000	7720.71	2.56	0.40	49004.39	5.66	3500.45	33.95	583.19	278138.67	0.07	7224.43	2.74
	terrace	Lead T-Pb	70	3	1800	14.93	2692.13	0.00	10726429.32	0.02	2264650.09	0.08	534508.66	536.28	74.96	14.14	2843.09
		Mercury T-Hg	6.6	0.07	42	1.35	2904.98	0.00	4986126.18	0.00	1489541.37	0.01	475928.11	48.19	81.31	1.30	3008.56
Soil group and Subgroup	Orthic	Molybdenum T-Mo	5	4	2400	129.52	4.63	0.01	88842.92	0.09	6326.91	0.57	1053.61	4665.95	0.13	121.19	4.95
Tentative Identification	Humic	Selenium T-Se	1	0.3	180	8.06	52.11	0.00	347890.58	0.01	54484.23	0.04	11061.02	289.93	1.45	7.59	55.36
	Gleysol	Zinc T-Zn	200	68	40800	90.18	878.29	0.01	6228825.49	0.08	938107.98	0.42	187558.49	3244.09	24.41	84.83	933.64

Date	11-Apr-03	Metal	CME Standard			Camp Location		Nemiah Valley		Southern Area of Minesite Footprint		NW Corner of Mine Site		Maximum Point of Impingement		Maximum on/outside of Disturbance Boundar	
		Arsenic T-As	12	0.8	480	54.63	123.01	0.00	1964373.87	0.04	162656.11	0.24	12134.04	1967.74	3.42	51.15	131.38
Plot Number	95-52	Barium T-Ba	750	113	67800	189.75	2014.24	0.01	38629342.51	0.14	2750970.14	0.83	98227445.13	6835.73	55.91	177.55	2152.63
Soil Horizon	Ae	Boron T-B	2	10	6000	15.31	-313.47	0.00	-6011704.06	0.01	-428120.63	0.07	-109170.41	551.64	-8.70	14.33	-335.00
Parent Materials	Eolian over	Cadmium T-Cd	1.4	2	1200	8.01	-44.94	0.00	-390619.31	0.01	-54036.11	0.04	-1597.92	289.10	-1.25	7.47	-48.17
	till blanket	Chromium T-Cr	64	33	19800	370.06	50.26	0.02	953326.55	0.27	68521.23	1.63	1395424.32	13331.38	1.40	346.28	53.71
	"benchy"	Copper T-Cu	63	10	6000	7720.71	4.12	0.40	78704.02	5.66	5621.94	33.95	723153.45	278138.67	0.11	7224.43	4.40
	moraine	Lead T-Pb	70	4	2400	14.93	2651.95	0.00	10566333.36	0.02	2230849.34	0.08	314494.84	536.28	73.84	14.14	2800.66
		Mercury T-Hg	6.6	0.053	31.8	1.35	2912.54	0.00	4999106.91	0.00	1493419.20	0.01	341.09	48.19	81.52	1.30	3016.40
Soil group and Subgroup	Orthic	Molybdenum T-Mo	5	4	2400	129.52	4.63	0.01	88842.92	0.09	6326.91	0.57	5458.52	4665.95	0.13	121.19	4.95
Tentative Identification	Gray	Selenium T-Se	1	0.1	60	8.06	67.00	0.00	447287.89	0.01	70051.16	0.04	114.63	289.93	1.86	7.59	71.18
	Luvisol	Zinc T-Zn	200	105	63000	90.18	632.10	0.01	4482866.83	0.08	675153.47	0.42	12780959.82	3244.09	17.57	84.83	671.94