



# Taseko Prosperity Gold-Copper Project

## Appendix 5-4-P

TASEKO MINES LIMITED  
PROSPERITY PROJECT AT FISH LAKE

SOIL TEXTURE AND CHEMISTRY  
TERRESTRIAL SOILS COLLECTED IN AUGUST 1996

Date	12-Aug-96	12-Aug-96	12-Aug-96	13-Aug-96	13-Aug-96	13-Aug-96	13-Aug-96	13-Aug-96	13-Aug-96	14-Aug-96	14-Aug-96
<b>Plot Number</b>	96-01	96-01	96-01	96-04	96-04	96-04	96-06	96-06	96-06	96-07	96-07
<b>Soil Horizon</b>	Ah	Bm1	Bm2	A Horiz.	B Horiz.	C Horiz.	A Horiz.	B Horiz.	C Horiz.	Oh (Humic)	Btg
<b>Remarks</b>	Horizon	Horizon	Horizon								Horizon
<b>Parent Materials</b>	Organic under low willow thicket	Organic under low willow thicket	Organic under low willow thicket	Morainal Blanket steep slope	Morainal Blanket steep slope	Morainal Blanket steep slope	Colluvial veneer / morainal blanket	Colluvial veneer / morainal blanket	Colluvial veneer / morainal blanket	Organic veneer / water-washed till	Organic veneer / water-washed till
<b>Soil group and Subgroup Tentative Identification</b>	Terric Mesisol?	Terric Mesisol?	Terric Mesisol?	Orthic Gray Luvisol?	Orthic Gray Luvisol?	Orthic Gray Luvisol?	Orthic Dystric Brunisol?	Orthic Dystric Brunisol?	Orthic Dystric Brunisol?	Orthic Humic Gleysol?	Orthic Humic Gleysol?
<b>General Parameters</b>											
Moisture %	75.4	78.3	72.9	18.0	4.1	3.8	21.1	10.6	4.2	75.9	47.5
pH	5.80	5.94	6.02	5.81	6.55	6.72	6.98	6.88	6.86	6.67	6.91
Conductivity (µmho/cm)	79.8	75.5	73.2	36.2	17.6	15.8	25.9	14.9	10.8	40.2	29.4
Total Sulphur	0.630	0.610	0.590	0.018	0.007	0.003	0.009	0.009	0.009	0.450	0.200
Total Organic Carbon C	45.2	44.4	40.0	10.5	0.8	0.4	4.7	1.5	0.7	39.9	11.1
Total Nitrogen N	2.18	2.32	2.16	0.18	0.05	0.03	0.16	0.07	0.06	2.48	0.77
Total Phosphate P	8.9	6.8	8.9	32	26	19	7.2	5.7	5.1	13	3.4
Potassium T-K, ppm	766	<900	<600	1270	980	789	651	798	629	<900	<600
Carbon / Nitrogen Ratio	20.7	19.1	18.5	58.3	15.8	12.3	29.6	21.6	12.3	16.1	14.4
<b>Total Metals</b>											
Aluminum T-Al	2010	1890	3200	29400	24700	20300	24200	29500	22100	5740	32200
Antimony T-Sb	0.16	0.32	0.33	0.48	0.41	0.49	0.22	0.35	0.29	0.62	0.40
Arsenic T-As	1.52	1.90	1.28	1.70	1.94	2.92	0.70	1.50	2.33	1.78	4.60
Barium T-Ba	24	29	35	90	73	66	67	92	98	27	66
Beryllium T-Be	<1	<1.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2	<1
Boron T-B	<20	<30	<20	<10	<10	<10	<10	<10	<10	<30	<20
Cadmium T-Cd	<4	<6	<4	<2	<2	<2	<2	<2	<2	<6	<4
Calcium T-Ca	19900	21300	18700	8660	6250	5010	6700	6520	6320	41200	22800
Chromium T-Cr	4	<6	5	60	49	46	54	67	59	13	80
Cobalt T-Co	<4	<6	<4	15	12	14	17	16	22	<6	15
Copper T-Cu	21	20	21	16	17	18	9	14	19	89	135
Iron T-Fe	6660	7550	6240	40100	34700	35000	31600	39200	40600	6200	36400
Lead T-Pb	<2	<2	<2	5	4	3	3	4	5	<2	3
Magnesium T-Mg	2250	2310	2110	9060	8180	8670	9550	8560	9840	6570	12300
Manganese T-Mn	82	62	60	991	377	486	931	480	1580	367	413
Mercury T-Hg	0.058	0.052	0.029	0.014	0.011	0.008	0.008	0.008	0.016	0.107	0.084
Molybdenum T-Mo	<8	<12	<8	<4	<4	<4	<4	<4	<4	<10	<8
Nickel T-Ni	23	31	35	47	35	36	40	44	46	84	112
Selenium T-Se	0.4	0.3	0.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.8	0.7
Silver T-Ag	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sodium T-Na	<600	<900	<600	1280	748	533	741	707	875	<900	2440
Tin T-Sn	<60	<90	<60	<30	<30	<30	<30	<30	<30	<90	<60
Zinc T-Zn	12	9	8	118	80	56	139	92	47	12	48
Copper / Molybdenum Ratio	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
<b>Exchangeable Cations</b>											
Cation Exchange Capacity	124	137	145	39.6	17.4	15	47.9	30.3	28.6	194	75.5
Calcium Ca	38	45	39	12.5	5.75	6.25	15	10.5	10	80	33
Magnesium Mg	8	10	10	5	3.25	3.25	7	6	6.5	32	13.5
Potassium K	1.30	1.40	1.70	0.65	0.63	0.43	0.38	0.35	0.63	1.70	0.40
Sodium Na	1.18	0.97	0.80	0.08	0.05	0.07	1.63	0.15	0.12	0.63	0.28
<b>Soil Texture, by Weight</b>											
% Gravel (>2.00mm)	Not tested	Not tested	Not tested	16.2	12.7	30.0	27.5	47.9	63.6	Organic horizon	27.7
% Sand (2.00mm - 0.063mm)	-	-	-	37.9	46.7	44.2	27.0	25.2	18.2	---	22.5
% Silt (0.063mm - 4µm)	-	-	-	31.4	29.6	18.8	29.6	18.3	12.8	---	26.6
% Clay (<4µm)	-	-	-	14.5	11.0	7.0	15.9	8.6	5.4	---	23.2
<b>Fine Fragment Composition, % of Fines Represented by:</b>											
Sand	Not tested	Not tested	Not tested	45.2	53.5	63.1	37.2	48.4	50.0	Organic horizon	31.1
Silt	-	-	-	37.5	33.9	26.9	40.8	35.1	35.2	---	36.8
Clay	-	-	-	17.3	12.6	10.0	21.9	16.5	14.8	---	32.1

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TASEKO MINES LIMITED  
PROSPERITY PROJECT AT FISH LAKE

SOIL TEXTURE AND CHEMISTRY  
TERRESTRIAL SOILS COLLECTED IN AUGUST 1996

Date	14-Aug-96	14-Aug-96	14-Aug-96	14-Aug-96	14-Aug-96	14-Aug-96	14-Aug-96	14-Aug-96	14-Aug-96	15-Aug-96	15-Aug-96
<b>Plot Number</b>	96-10	96-10	96-10	96-13	96-13	96-14	96-14	96-16	96-16	96-17	96-17
<b>Soil Horizon</b>	Ah	Bm	C	Oh	Bg	B	C	B Horiz.	C Horiz.	Oh2 Horiz. (Peat layer)	Btg Gleyed Horizon
<b>Remarks</b>											
<b>Parent Materials</b>	Morainal plain, rolling to hummocky	Morainal plain, rolling to hummocky	Morainal plain, rolling to hummocky	Organic blanket over fluvial terrace	Organic blanket over fluvial terrace	Morainal plain coarse-textured	Morainal plain coarse-textured	Morainal plain, hummocky	Morainal plain, hummocky	Organic blanket / morainal plain	Organic blanket / morainal plain
<b>Soil group and Subgroup Tentative Identification</b>	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Terric Mesisol?	Terric Mesisol?	Brunisol?	Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Rego Humic Gleysol?	Rego Humic Gleysol?
<b>General Parameters</b>											
Moisture %	6.2	5.5	6.1	41.1	25.3	5.8	3.2	4.7	3.4	73.5	63.9
pH	6.22	6.40	6.57	6.61	6.82	6.06	6.45	6.30	6.49	6.53	6.69
Conductivity (µmho/cm)	9.7	9.1	8.3	35.8	27.5	15.4	9.1	12.8	7.7	41.7	31.3
Total Sulphur	0.004	0.002	0.001	0.200	0.071	0.004	0.003	0.003	0.003	0.500	0.400
Total Organic Carbon C	1.5	0.8	0.5	9.4	3.5	1.2	0.2	1.2	0.5	35.3	18.9
Total Nitrogen N	0.06	0.05	0.04	0.77	0.25	0.05	0.02	0.04	0.03	2.02	1.71
Total Phosphate P	19	26	17	6	0.6	28	11	21	31	17	8.9
Potassium T-K, ppm	647	463	576	1360	1330	625	629	804	510	<900	1310
Carbon / Nitrogen Ratio	24.2	16.2	12.5	12.2	13.8	23.0	10.5	30.3	15.7	17.5	11.1
<b>Total Metals</b>											
Aluminum T-Al	47300	43600	41800	39500	29100	30300	26900	33900	26600	17100	39200
Antimony T-Sb	0.28	0.26	0.23	0.97	1.08	0.35	0.29	0.24	0.32	0.91	1.05
Arsenic T-As	2.23	2.22	1.64	99.90	121.00	4.53	4.29	2.28	3.14	3.63	4.88
Barium T-Ba	63	65	44	249	149	90	81	80	58	56	104
Beryllium T-Be	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<1.5	<1
Boron T-B	<10	<10	<10	<10	<10	<10	<10	<10	<10	<30	20
Cadmium T-Cd	<2	<2	<2	<2	<2	<2	<2	<2	<2	<6	<4
Calcium T-Ca	8720	9030	9310	19500	9410	6130	7390	5150	4300	33200	27100
Chromium T-Cr	23	23	20	63	42	50	46	59	44	33	71
Cobalt T-Co	14	13	12	22	16	12	10	15	14	<6	8
Copper T-Cu	32	31	32	68	39	27	30	23	26	179	248
Iron T-Fe	32500	32800	31700	58500	99200	36400	33000	42100	36700	13400	28500
Lead T-Pb	5	4	4	4	4	4	4	4	3	<2	6
Magnesium T-Mg	12500	12600	12400	7900	6760	8370	7940	7960	9000	6050	7590
Manganese T-Mn	458	525	480	10900	1760	423	320	368	338	284	143
Mercury T-Hg	0.014	0.009	0.01	0.095	0.036	0.02	0.012	0.013	0.012	0.187	0.217
Molybdenum T-Mo	<4	<4	<4	<4	5	<4	<4	<4	<4	<12	<8
Nickel T-Ni	35	35	33	66	40	39	36	53	50	45	60
Selenium T-Se	<0.1	<0.1	<0.1	1.2	0.6	<0.1	<0.1	<0.1	<0.1	2.2	1.8
Silver T-Ag	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	0.9	0.6
Sodium T-Na	349	313	321	973	660	594	904	768	626	<900	<600
Tin T-Sn	<30	<30	<30	<30	<30	<30	<30	<30	<30	<90	<60
Zinc T-Zn	96	76	70	63	50	59	41	107	63	25	50
Copper / Molybdenum Ratio	N.A.	N.A.	N.A.	N.A.	7.80	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
<b>Exchangeable Cations</b>											
Cation Exchange Capacity	22.5	23.8	23.6	78.2	52.5	21.4	35.4	40.7	37.8	166	135
Calcium Ca	6.5	6.75	8.5	33	22.5	13	6.75	4.5	4.5	60	54
Magnesium Mg	2.25	2	2.25	8.5	7	4.5	2.5	1.5	0.65	14	20
Potassium K	0.33	0.20	0.70	0.93	3.75	0.50	0.28	0.40	0.53	2.40	0.28
Sodium Na	0.08	0.09	0.13	0.55	0.60	0.12	0.18	0.04	0.06	0.61	0.51
<b>Soil Texture, by Weight</b>											
% Gravel (>2.00mm)	30.3	45.0	56.5	<0.1	<0.1	31.5	21.9	20.4	50.0	Organic horizon	Organic horizon
% Sand (2.00mm - 0.063mm)	43.3	31.9	28.7	27.7	31.7	33.4	43.8	50.9	32.6	---	---
% Silt (0.063mm - 4µm)	17.9	14.5	8.4	36.0	32.9	24.0	26.5	21.1	12.7	---	---
% Clay (<4µm)	8.5	8.6	6.4	36.3	35.4	11.1	7.8	7.6	4.7	---	---
<b>Fine Fragment Composition, % of Fines Represented by:</b>											
Sand	62.1	58.0	66.0	27.7	31.7	48.8	56.1	63.9	65.2	Organic horizon	Organic horizon
Silt	25.7	26.4	19.3	36.0	32.9	35.0	33.9	26.5	25.4	---	---
Clay	12.2	15.6	14.7	36.3	35.4	16.2	10.0	9.5	9.4	---	---

ASL WO# G4573

**TASEKO MINES LIMITED  
PROSPERITY PROJECT AT FISH LAKE**

**SOIL TEXTURE AND CHEMISTRY  
TERRESTRIAL SOILS COLLECTED IN AUGUST 1996**

Date	15-Aug-96	15-Aug-96	15-Aug-96	15-Aug-96	15-Aug-96	15-Aug-96	15-Aug-96	15-Aug-96	15-Aug-96	15-Aug-96	16-Aug-96	16-Aug-96
<b>Plot Number</b>	96-18	96-18	96-18	96-18	96-20	96-20	96-21	96-21	96-21	96-21	96-23	96-23
<b>Soil Horizon</b>	Ah Horiz.	AB Horiz.	Bm Horiz.	C Horiz.	Ah+Bm	C Horiz.	Bm	C1 Horiz.	C2 Horiz.	B Horiz.	C Horiz.	C Horiz.
<b>Remarks</b>	0-3 cm	3-11 cm	11-21 cm	21+ cm	Horizons	14+ cm	Horizon	21-29 cm	29+ cm	6-26 cm	26+ cm	
<b>Parent Materials</b>	Morainal blanket moderate slope	Morainal blanket moderate slope	Morainal blanket moderate slope	Morainal blanket moderate slope	Morainal plain on crest of plateau	Morainal plain on crest of plateau	Morainal plain on crest of plateau	Morainal plain on crest of plateau	Morainal plain on crest of plateau	Morainal plain on crest of plateau	Morainal plain on crest of plateau	Morainal plain on crest of plateau
<b>Soil group and Subgroup Tentative Identification</b>	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Dystric Brunisol?	Orthic Dystric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?
<b>General Parameters</b>												
Moisture %	20.0	19.9	10.4	4.8	5.4	7.5	2.8	10.5	5.7	4.6	4.5	
pH	6.29	6.14	6.52	6.46	5.56	6.05	5.71	6.38	6.65	6.50	6.81	
Conductivity (µmho/cm)	19.3	48.3	9.3	13.2	16.5	14.2	12.3	20.6	11.8	15.1	8.4	
Total Sulphur	0.015	0.004	0.005	0.004	0.012	0.008	0.005	0.006	0.012	0.007	0.005	
Total Organic Carbon C	3.4	2.5	0.3	0.1	2.3	0.6	1.3	0.5	0.3	1.1	0.1	
Total Nitrogen N	0.17	0.12	0.03	0.02	0.10	0.05	0.05	0.03	0.03	0.04	0.02	
Total Phosphate P	10	8.1	6.2	3.4	8.5	7	5.1	1.9	2.6	34	5.1	
Potassium T-K, ppm	1500	1410	474	737	756	747	623	738	560	803	491	
Carbon / Nitrogen Ratio	19.8	20.8	11.3	5.0	22.6	12.6	26.4	16.7	11.0	26.3	6.0	
<b>Total Metals</b>												
Aluminum T-Al	50600	36100	20100	21700	30900	29200	28700	29900	21600	30100	24800	
Antimony T-Sb	0.56	0.83	0.91	0.61	0.34	0.45	0.45	0.90	1.22	0.62	0.79	
Arsenic T-As	10.40	12.00	11.30	13.80	5.84	5.11	14.20	22.40	6.31	6.43	6.31	
Barium T-Ba	137	101	64	70	79	89	130	114	70	93	92	
Beryllium T-Be	0.9	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Boron T-B	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Cadmium T-Cd	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Calcium T-Ca	9350	7750	3830	5690	6010	5520	4650	7360	5850	5050	5150	
Chromium T-Cr	65	68	49	45	50	44	47	67	40	49	50	
Cobalt T-Co	18	20	11	12	17	16	18	18	11	15	13	
Copper T-Cu	60	35	30	34	26	24	24	39	45	36	43	
Iron T-Fe	43000	49300	38500	37600	41100	39500	39600	39700	34800	43100	36900	
Lead T-Pb	4	5	4	3	6	4	6	5	4	3	3	
Magnesium T-Mg	7360	8930	7780	8930	8200	8730	6600	6340	8080	9630	10100	
Manganese T-Mn	2410	1410	411	521	970	904	839	577	453	379	406	
Mercury T-Hg	0.029	0.018	0.016	0.015	0.015	0.009	0.01	0.028	0.033	0.014	0.022	
Molybdenum T-Mo	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Nickel T-Ni	67	48	33	36	40	36	27	34	28	46	40	
Selenium T-Se	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Silver T-Ag	0.3	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Sodium T-Na	550	1140	386	858	606	528	508	1100	658	633	592	
Tin T-Sn	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	
Zinc T-Zn	118	116	53	51	91	80	114	64	56	81	45	
Copper / Molybdenum Ratio	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
<b>Exchangeable Cations</b>												
Cation Exchange Capacity	53.6	27.5	10.9	10.5	25	16.3	17.5	15.2	16.1	13.9	11.6	
Calcium Ca	19.5	15.5	6.25	6	8	6.25	4.25	7.25	9.75	5.75	7.75	
Magnesium Mg	8.5	5.5	2.5	2.5	4.5	3.25	2	2.75	3.25	1.5	2.25	
Potassium K	0.98	0.38	0.50	0.85	1.35	1.35	0.43	0.63	0.58	1.15	0.68	
Sodium Na	0.11	0.26	0.09	0.13	0.14	0.15	0.08	0.10	0.14	0.08	0.13	
<b>Soil Texture, by Weight</b>												
% Gravel (>2.00mm)	20.5	Not analyzed	12.1	35.1	17.0	18.5	14.2	1.3	26.6	23.4	19.9	
% Sand (2.00mm - 0.063mm)	23.5	analyzed	48.8	43.0	32.1	31.4	36.1	35.7	38.7	45.7	45.7	
% Silt (0.063mm - 4µm)	27.5	---	30.2	17.7	36.1	37.3	38.1	53.6	24.5	24.8	26.6	
% Clay (<4µm)	28.5	---	8.9	4.2	14.8	12.8	11.6	9.4	10.2	6.1	7.8	
<b>Fine Fragment Composition, % of Fines Represented by:</b>												
Sand	29.6	Not analyzed	55.5	66.3	38.7	38.5	42.1	36.2	52.7	59.7	57.1	
Silt	34.6	analyzed	34.4	27.3	43.5	45.8	44.4	54.3	33.4	32.4	33.2	
Clay	35.8	---	10.1	6.5	17.8	15.7	13.5	9.5	13.9	8.0	9.7	

ASL WO# G4573

TASEKO MINES LIMITED  
PROSPERITY PROJECT AT FISH LAKE

SOIL TEXTURE AND CHEMISTRY  
TERRESTRIAL SOILS COLLECTED IN AUGUST 1996

Date	17-Aug-96	17-Aug-96	17-Aug-96	17-Aug-96	17-Aug-96	17-Aug-96	18-Aug-96	18-Aug-96	18-Aug-96	18-Aug-96	18-Aug-96
Plot Number	96-31	96-31	96-33	96-33	96-34	96-34	96-36	96-36	96-36	96-38	96-38
Soil Horizon	B Horiz.	C Horiz.	B Horiz.	C Horiz.	B Horiz.	C Horiz.	A Horiz.	B Horiz.	C Horiz.	B Horiz.	C Horiz.
Remarks											
Parent Materials	Ridged to rolling morainal plain	Ridged to rolling morainal plain	Glacio-fluvial, esker crest	Glacio-fluvial, esker crest	Glacio-fluvial, outwash plain	Glacio-fluvial, outwash plain	Glacio-fluvial, esker crest	Glacio-fluvial, esker crest	Glacio-fluvial, esker crest	Glacio-fluvial, outwash plain	Glacio-fluvial, outwash plain
Soil group and Subgroup Tentative Identification	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Brunisol?	Brunisol?	Brunisol?	Brunisol?	Podzol?	Podzol?	Podzol?	Luvisol?	Luvisol?
<b>General Parameters</b>											
Moisture %	3.1	2.1	2.7	2.2	3.4	1.9	48.3	9.8	7.7	5.9	3.4
pH	6.36	6.65	6.24	6.58	6.02	6.51	4.74	6.01	5.88	7.07	7.79
Conductivity (µmho/cm)	9.5	7.9	9.3	4.4	8.1	7.4	62.5	7.5	12.2	27.9	13.6
Total Sulphur	0.006	0.002	0.010	0.130	0.006	0.004	0.051	0.009	0.010	0.010	0.006
Total Organic Carbon C	0.5	0.1	0.5	<0.05	0.4	0.1	45.2	1.1	0.9	0.9	0.2
Total Nitrogen N	0.02	0.01	0.03	0.01	0.03	0.01	0.41	0.05	0.06	0.06	0.03
Total Phosphate P	45	13	60	34	51	8.1	96	81	43	6.5	1.7
Potassium T-K, ppm	505	509	571	596	429	447	1130	448	453	511	493
Carbon / Nitrogen Ratio	23.0	11.0	17.0	Can't calc.	12.7	8.0	110.2	22.8	15.5	14.2	6.7
<b>Total Metals</b>											
Aluminum T-Al	24900	18100	27900	22200	24800	17400	14700	38100	36800	23500	15200
Antimony T-Sb	0.35	0.45	0.40	0.38	0.40	0.39	0.16	0.33	0.35	0.39	0.24
Arsenic T-As	1.61	0.98	2.78	1.59	2.18	1.05	1.68	1.69	2.22	1.15	1.24
Barium T-Ba	74	52	64	50	58	46	101	80	151	63	48
Beryllium T-Be	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5
Boron T-B	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cadmium T-Cd	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Calcium T-Ca	4690	7000	5270	7990	5370	6980	7690	3280	3920	7480	8430
Chromium T-Cr	62	52	41	50	42	39	24	89	87	93	138
Cobalt T-Co	14	13	13	15	15	12	8	21	24	20	25
Copper T-Cu	21	18	34	26	29	19	11	29	34	19	26
Iron T-Fe	33500	33400	36600	38800	36900	29200	16400	54600	48400	39300	36700
Lead T-Pb	2	<2	3	3	3	3	6	4	4	2	2
Magnesium T-Mg	9440	9370	10900	13000	10900	9070	2420	8670	9340	12000	23900
Manganese T-Mn	289	365	381	468	376	376	406	202	263	373	580
Mercury T-Hg	0.019	0.011	0.028	0.008	0.021	0.011	0.091	0.014	0.023	0.011	0.015
Molybdenum T-Mo	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Nickel T-Ni	48	44	41	51	48	35	20	100	105	87	175
Selenium T-Se	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Silver T-Ag	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sodium T-Na	683	1090	604	990	552	946	735	369	587	1330	1540
Tin T-Sn	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Zinc T-Zn	48	42	56	55	53	40	74	66	46	46	50
Copper / Molybdenum Ratio	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
<b>Exchangeable Cations</b>											
Cation Exchange Capacity	12.1	8.4	14.1	8.5	10.7	6.8	79.3	17.9	19.8	22.8	11.1
Calcium Ca	3.75	5	2.15	3.5	1.43	3.25	9	0.98	1.6	6	5
Magnesium Mg	1.25	1.5	0.35	0.53	0.35	0.88	2.1	0.63	0.7	7.75	4.75
Potassium K	0.68	0.48	0.85	0.65	0.83	1.53	4.80	1.58	1.38	1.38	1.10
Sodium Na	0.04	0.07	0.06	0.05	0.04	0.07	0.16	0.07	0.06	0.13	0.14
<b>Soil Texture, by Weight</b>											
% Gravel (>2.00mm)	14.2	20.8	27.0	33.3	25.8	18.8	Organic horizon	0.5	1.9	19.2	25.6
% Sand (2.00mm - 0.063mm)	62.4	50.6	62.7	58.6	65.3	66.0	---	62.3	63.1	30.5	37.0
% Silt (0.063mm - 4µm)	18.7	24.8	9.7	3.5	7.4	13.1	---	32.9	30.7	35.5	29.7
% Clay (<4µm)	4.7	3.8	0.6	4.6	1.5	2.1	---	4.3	4.3	14.8	7.7
<b>Fine Fragment Composition, % of Fines Represented by:</b>											
Sand	72.7	63.9	85.9	87.9	88.0	81.3	Organic horizon	62.6	64.3	37.7	49.7
Silt	21.8	31.3	13.3	5.2	10.0	16.1	---	33.1	31.3	43.9	39.9
Clay	5.5	4.8	0.8	6.9	2.0	2.6	---	4.3	4.4	18.3	10.3

ASL WO# G4573

**TASEKO MINES LIMITED  
PROSPERITY PROJECT AT FISH LAKE**

**SOIL TEXTURE AND CHEMISTRY  
TERRESTRIAL SOILS COLLECTED IN AUGUST 1996**

Date	17-Aug-96	17-Aug-96	17-Aug-96	17-Aug-96	17-Aug-96	17-Aug-96	17-Aug-96	17-Aug-96	17-Aug-96	17-Aug-96
<b>Plot Number</b>	96-40	96-40	96-40	96-41	96-41	96-42	96-42	96-44	96-44	96-44
<b>Soil Horizon</b>	Oh Horiz.	Btj Horiz.	Cg Horiz.	Bm	C	Bm	C	Ae	Bm	C
<b>Remarks</b>	0-17 cm	17-24 cm	24-30 cm	Horizon	Horizon	Horizon	Horizon	Horizon	Horizon	Horizon
<b>Parent Materials</b>	Glacio-fluvial, outwash plain	Glacio-fluvial, outwash plain	Glacio-fluvial, outwash plain	Glacio-fluvial, kame	Glacio-fluvial, kame	Morainal plain or outwash plain	Morainal plain or outwash plain	Morainal plain or outwash plain	Morainal plain or outwash plain	Morainal plain or outwash plain
<b>Soil group and Subgroup Tentative Identification</b>	Orthic Humic Gleysol?	Orthic Humic Gleysol?	Orthic Humic Gleysol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?
<b>General Parameters</b>										
Moisture %	71.6	74.1	38.8	4.3	2.9	4.6	4.0	7.2	7.6	6.4
pH	6.11	6.14	6.25	6.19	6.62	6.45	6.43	4.59	6.30	6.64
Conductivity (µmho/cm)	18.8	14.6	14.0	14.3	6.1	8.0	14.6	67.5	8.6	8.0
Total Sulphur	0.280	0.280	0.084	0.007	0.003	0.005	0.005	0.011	0.006	0.004
Total Organic Carbon C	33.7	31.0	14.1	0.5	<0.05	0.4	0.3	3.2	0.6	0.2
Total Nitrogen N	2.27	1.91	0.51	0.04	0.01	0.04	0.03	0.10	0.03	0.02
Total Phosphate P	26	11	3.8	21	17	7.7	5.1	47	15	7.7
Potassium T-K, ppm	784	710	621	575	481	598	546	1030	636	910
Carbon / Nitrogen Ratio	14.8	16.2	27.6	13.5	Can't calc.	10.8	10.7	32.1	18.7	11.0
<b>Total Metals</b>										
Aluminum T-Al	9620	16900	37900	30700	23500	22700	26100	17200	33800	27700
Antimony T-Sb	0.24	3.92	0.43	0.42	0.44	0.38	0.41	0.24	0.46	0.56
Arsenic T-As	0.98	1.84	1.06	2.30	1.35	2.09	2.00	1.62	3.26	2.85
Barium T-Ba	15	27	90	111	77	70	80	50	144	100
Beryllium T-Be	<1.0	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Boron T-B	<20	<20	<10	<10	<10	<10	<10	<10	<10	<10
Cadmium T-Cd	<4	<4	<2	<2	<2	<2	<2	<2	<2	<2
Calcium T-Ca	7990	11100	7020	5360	7130	5090	6970	3560	4140	7450
Chromium T-Cr	13	27	62	84	74	56	72	29	64	58
Cobalt T-Co	6	7	10	16	14	15	18	8	17	15
Copper T-Cu	45	50	27	25	22	22	25	12	26	33
Iron T-Fe	6810	12800	19800	37700	34100	35400	39200	24500	41800	38900
Lead T-Pb	3	<2	4	3	2	3	2	5	3	4
Magnesium T-Mg	2210	2730	5200	11400	12300	8250	11100	3550	8030	9660
Manganese T-Mn	62	42	129	338	434	481	567	273	345	580
Mercury T-Hg	0.069	0.084	0.038	0.016	0.017	0.036	0.015	0.035	0.022	0.034
Molybdenum T-Mo	<8	<8	<4	<4	<4	<4	<4	<4	<4	<4
Nickel T-Ni	24	35	37	77	69	45	68	19	52	46
Selenium T-Se	0.5	0.5	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Silver T-Ag	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sodium T-Na	<600	<600	698	932	1230	737	997	575	709	1110
Tin T-Sn	<60	<60	<30	<30	<30	<30	<30	<30	<30	<30
Zinc T-Zn	9	14	33	62	44	56	46	62	42	54
Copper / Molybdenum Ratio	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
<b>Exchangeable Cations</b>										
Cation Exchange Capacity	100	98	55.7	14.2	11.8	13.9	16.1	21.7	15.5	13.7
Calcium Ca	32.5	25.5	11	2.75	4.5	5.5	6.25	3.25	3.25	6.5
Magnesium Mg	12.5	11	6.5	1.25	1.5	2.25	3.5	1.75	1.5	2.25
Potassium K	5.13	3.40	0.30	0.28	0.30	0.23	0.48	0.30	0.40	0.28
Sodium Na	0.51	0.44	0.22	0.08	0.12	0.11	0.15	0.04	0.12	0.19
<b>Soil Texture, by Weight</b>										
% Gravel (>2.00mm)	Organic horizon	Organic horizon	Organic horizon	18.8	23.5	16.9	28.0	4.9	<0.1	19.2
% Sand (2.00mm - 0.063mm)	---	---	---	48.9	53.8	43.3	43.4	51.3	57.4	43.4
% Silt (0.063mm - 4µm)	---	---	---	27.0	19.5	29.7	21.1	32.9	38.4	31.3
% Clay (<4µm)	---	---	---	5.3	3.2	10.1	7.5	10.9	4.2	6.1
<b>Fine Fragment Composition, % of Fines Represented by:</b>										
Sand	Organic horizon	Organic horizon	Organic horizon	60.2	70.3	52.1	60.3	53.9	57.4	53.7
Silt	---	---	---	33.3	25.5	35.7	29.3	34.6	38.4	38.7
Clay	---	---	---	6.5	4.2	12.2	10.4	11.5	4.2	7.5

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TASEKO MINES LIMITED  
PROSPERITY PROJECT AT FISH LAKE

SOIL TEXTURE AND CHEMISTRY  
TERRESTRIAL SOILS COLLECTED IN AUGUST 1996

Date	17-Aug-96	17-Aug-96	17-Aug-96	17-Aug-96	17-Aug-96	18-Aug-96	18-Aug-96	18-Aug-96	18-Aug-96	18-Aug-96	18-Aug-96	18-Aug-96
<b>Plot Number</b>	96-45	96-45	96-46	96-46	96-46	96-48	96-48	96-49	96-49	96-50	96-50	96-50
<b>Soil Horizon</b>	Bm	C	Ah	B	Cg	A + B	C Horiz.	Om1 Horiz	Om2 Horiz	Ae	Bm	C
<b>Remarks</b>	Horizon	Horizon	Horizon	Horizon	Horizon	Horizons		0-20 cm	20-30 cm	Horizon	Horizon	Horizon
<b>Parent Materials</b>	Glacio-fluvial, esker or kame	Glacio-fluvial, esker or kame	Organic veneer / outwash plain	Organic veneer / outwash plain	Organic veneer / outwash plain	Organic veneer / outwash plain	Organic veneer / outwash plain	Organic veneer / outwash plain	Organic veneer / outwash plain	Outwash plain or morainal plain	Outwash plain or morainal plain	Outwash plain or morainal plain
<b>Soil group and Subgroup</b>	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Rego Humic Gleysol?	Rego Humic Gleysol?	Rego Humic Gleysol?	Rego Humic Gleysol?	Rego Humic Gleysol?	Rego Humic Gleysol?	Rego Humic Gleysol?	Orthic Dystric Brunisol?	Orthic Dystric Brunisol?	Orthic Dystric Brunisol?
<b>Tentative Identification</b>												
<b>General Parameters</b>												
Moisture %	5.3	2.7	82.4	79.9	26.1	53.3	6.7	77.3	78.1	23.9	21.4	3.3
pH	6.25	6.50	7.24	6.98	7.68	6.81	6.98	6.18	6.32	5.30	5.53	6.31
Conductivity (µmho/cm)	5.6	4.8	45.9	31.0	24.3	21.0	19.9	20.0	19.3	6.1	6.8	6.5
Total Sulphur	0.005	0.003	0.400	0.450	0.039	0.069	0.003	0.290	0.330	0.014	0.011	0.004
Total Organic Carbon C	0.7	0.1	40.8	40.7	1.3	14.1	0.2	43.3	29.8	3.0	2.0	0.2
Total Nitrogen N	0.03	0.02	2.22	2.88	0.15	0.63	0.02	2.22	1.91	0.14	0.11	0.02
Total Phosphate P	18	49	31	22	4.3	17	3.6	26	145	23	47	11
Potassium T-K, ppm	<300	424	895	758	1090	855	<300	882	834	754	588	447
Carbon / Nitrogen Ratio	23.7	6.5	18.4	14.1	8.7	22.4	9.0	19.5	15.6	21.6	17.8	8.0
<b>Total Metals</b>												
Aluminum T-Al	26900	21600	1840	6850	42600	82200	17300	3250	15000	25300	32900	21800
Antimony T-Sb	0.38	0.54	0.27	1.61	0.62	0.37	0.42	0.26	1.33	0.25	0.29	0.33
Arsenic T-As	1.81	0.88	0.85	0.90	5.36	1.60	1.75	1.27	1.82	1.42	1.49	1.72
Barium T-Ba	90	64	32	20	146	217	65	17	34	69	63	202
Beryllium T-Be	<0.5	<0.5	<1.0	<1.0	0.8	1	<0.5	<1.0	<1.0	<0.5	<0.5	<0.5
Boron T-B	<10	<10	25	23	<10	<10	<10	<20	<20	<10	<10	<10
Cadmium T-Cd	<2	<2	<4	<4	<2	<2	<2	<4	<4	<2	<2	<2
Calcium T-Ca	3460	7050	25500	29300	9710	11500	7080	10800	18800	4230	4360	5890
Chromium T-Cr	63	59	<4	11	54	113	51	6	24	27	50	53
Cobalt T-Co	21	19	4	<4	12	12	12	<4	5	6	10	20
Copper T-Cu	28	24	22	71	102	79	20	26	38	14	19	28
Iron T-Fe	37800	42300	5120	4010	44400	62300	30700	4140	10800	20800	37400	31500
Lead T-Pb	2	2	10	4	7	5	2	4	4	5	4	<2
Magnesium T-Mg	12100	16800	7620	7200	12400	11900	6880	2660	3740	4400	7370	11400
Manganese T-Mn	350	475	453	27	218	192	363	84	67	156	239	566
Mercury T-Hg	0.024	0.013	0.081	0.118	0.023	0.044	0.018	0.083	0.08	0.016	0.013	0.006
Molybdenum T-Mo	<4	<4	<8	<8	<4	<4	<4	<8	<8	<4	<4	<4
Nickel T-Ni	82	81	21	47	57	106	37	18	45	20	38	61
Selenium T-Se	<0.1	<0.1	0.4	1.9	<0.1	0.2	<0.1	0.4	1.3	<0.1	<0.1	<0.1
Silver T-Ag	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sodium T-Na	493	1240	<600	<600	843	532	1310	<600	<600	780	743	656
Tin T-Sn	<30	<30	<60	<60	<30	<30	<30	<60	<60	<30	<30	<30
Zinc T-Zn	52	58	34	8	53	61	28	16	14	62	64	43
Copper / Molybdenum Ratio	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
<b>Exchangeable Cations</b>												
Cation Exchange Capacity	12.1	6.4	161	158	46.3	106	10.3	114	124	22.8	21.4	10.8
Calcium Ca	1.13	1.38	44	52	16.5	28.8	8	35	39	3.5	3.25	4.25
Magnesium Mg	0.38	0.4	30	30	14.3	20.5	6	19	17	2.25	1.75	1.75
Potassium K	0.35	0.33	1.80	1.10	0.35	0.80	0.45	1.70	1.20	0.68	0.48	0.18
Sodium Na	0.04	0.04	0.56	0.39	0.22	0.30	0.10	0.60	0.56	0.07	0.07	0.10
<b>Soil Texture, by Weight</b>												
% Gravel (>2.00mm)	29.9	31.4	Organic horizon	Organic horizon	17.2	Organic horizon	28.3	Organic horizon	Organic horizon	22.3	23.0	41.5
% Sand (2.00mm - 0.063mm)	51.4	59.9	Organic horizon	Organic horizon	13.5	Organic horizon	35.1	Organic horizon	Organic horizon	29.9	31.3	36.1
% Silt (0.063mm - 4µm)	17.2	8.3	---	---	30.3	---	28.0	---	---	38.5	37.7	17.6
% Clay (<4µm)	1.5	0.4	---	---	39.0	---	8.6	---	---	9.3	8.0	4.8
<b>Fine Fragment Composition, % of Fines Represented by:</b>												
Sand	73.3	87.3	Organic horizon	Organic horizon	16.3	Organic horizon	49.0	Organic horizon	Organic horizon	38.5	40.6	61.7
Silt	24.5	12.1	Organic horizon	Organic horizon	36.6	Organic horizon	39.1	Organic horizon	Organic horizon	49.5	49.0	30.1
Clay	2.1	0.6	---	---	47.1	---	12.0	---	---	12.0	10.4	8.2

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TASEKO MINES LIMITED  
PROSPERITY PROJECT AT FISH LAKE

SOIL TEXTURE AND CHEMISTRY  
TERRESTRIAL SOILS COLLECTED IN AUGUST 1996

Date	19-Aug-96	19-Aug-96	19-Aug-96	19-Aug-96	19-Aug-96	19-Aug-96	19-Aug-96	19-Aug-96	19-Aug-96	
<b>Plot Number</b>	96-55	96-55	96-55	96-59	96-59	96-59	96-60	96-60	96-61	
<b>Soil Horizon</b>	Bm	Bt	Ah	Ae	Bm	C	Bm	C	Bm	
<b>Remarks</b>	Horizon	Horizon	Horizon	Horizon	Horizon	Horizon	Horizon	Horizon	Horizon	
<b>Parent Materials</b>	Morainal blanket, moderate slope	Morainal blanket, moderate slope	Morainal blanket, moderate slope	Morainal blanket, gentle slope	Morainal blanket, gentle slope	Morainal blanket, gentle slope	Outwash plain or morainal plain	Outwash plain or morainal plain	Outwash plain or morainal plain	
<b>Soil group and Subgroup Tentative Identification</b>	Orthic Gray Luvisol?	Orthic Gray Luvisol?	Orthic Gray Luvisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	
<b>General Parameters</b>										
Moisture %	5.8	6.3	4.3	3.9	4.1	2.2	5.5	5.1	4.6	
pH	6.78	6.28	6.56	6.03	6.08	6.09	6.69	6.99	6.95	
Conductivity (µmho/cm)	17.8	17.2	13.4	24.3	10.1	9.1	13.6	14.0	11.0	
Total Sulphur	0.007	0.007	0.042	0.010	0.003	0.001	0.011	0.006	0.005	
Total Organic Carbon C	1.0	0.7	1.9	2.4	0.7	<0.05	0.6	0.4	0.5	
Total Nitrogen N	0.07	0.05	0.19	0.13	0.03	0.01	0.06	0.04	0.03	
Total Phosphate P	10	13	23	15	40	11	3.2	2.3	6.2	
Potassium T-K, ppm	1920	701	1040	911	626	564	538	615	728	
Carbon / Nitrogen Ratio	13.7	14.6	10.2	18.7	21.7	Can't calc.	10.3	10.5	17.0	
<b>Total Metals</b>										
Aluminum T-Al	29000	16400	23900	20500	23000	12300	29400	22900	29700	
Antimony T-Sb	0.59	1.87	0.40	0.22	0.27	0.20	0.47	0.48	0.46	
Arsenic T-As	2.63	1.55	3.54	1.54	1.40	1.08	3.27	2.49	2.32	
Barium T-Ba	187	63	63	62	58	27	88	84	80	
Beryllium T-Be	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
Boron T-B	<10	<10	<10	<10	<10	<10	<10	<10	<10	
Cadmium T-Cd	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Calcium T-Ca	6450	4050	7020	4640	3640	3690	8970	10700	8270	
Chromium T-Cr	93	48	77	32	38	23	56	66	95	
Cobalt T-Co	22	12	19	9	10	7	16	13	26	
Copper T-Cu	36	27	30	19	18	16	28	33	71	
Iron T-Fe	48100	27300	50600	19200	24900	13200	39200	33100	43400	
Lead T-Pb	3	<2	3	<2	<2	<2	4	2	3	
Magnesium T-Mg	16100	9250	14900	5340	6100	5280	11000	11600	14000	
Manganese T-Mn	684	686	803	501	250	174	489	393	561	
Mercury T-Hg	0.01	0.011	0.024	0.021	0.007	<0.005	0.013	0.021	0.013	
Molybdenum T-Mo	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Nickel T-Ni	102	57	83	25	32	20	50	58	105	
Selenium T-Se	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Silver T-Ag	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	
Sodium T-Na	667	425	687	484	431	309	1550	1980	1410	
Tin T-Sn	<30	<30	<30	<30	<30	<30	<30	<30	<30	
Zinc T-Zn	62	34	67	54	51	24	60	45	53	
Copper / Molybdenum Ratio	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
<b>Exchangeable Cations</b>										
Cation Exchange Capacity	35.9	35.9	27.6	15.8	12.6	7.8	18.7	14.7	17.1	
Calcium Ca	11	11.5	9	5.5	5	4.5	9.5	8.5	7.25	
Magnesium Mg	8.25	10.8	5.75	3.25	2.5	2.25	4.75	4.25	3.75	
Potassium K	1.30	0.78	1.45	1.15	0.90	0.43	0.45	0.38	1.10	
Sodium Na	0.08	0.11	0.08	0.03	0.04	0.05	0.08	0.10	0.08	
<b>Soil Texture, by Weight</b>										
% Gravel (>2.00mm)	52.9	60.4	39.7	9.1	7.3	6.6	17.5	38.0	14.9	
% Sand (2.00mm - 0.063mm)	19.7	9.9	39.1	71.4	73.8	89.0	38.2	30.1	51.1	
% Silt (0.063mm - 4µm)	16.6	17.6	14.9	13.8	14.2	3.2	31.1	23.8	27.9	
% Clay (<4µm)	10.8	12.1	6.3	5.7	4.7	1.2	13.2	8.1	6.1	
<b>Fine Fragment Composition, % of Fines Represented by:</b>										
Sand	41.8	25.0	64.8	78.5	79.6	95.3	46.3	48.5	60.0	
Silt	35.2	44.4	24.7	15.2	15.3	3.4	37.7	38.4	32.8	
Clay	22.9	30.6	10.4	6.3	5.1	1.3	16.0	13.1	7.2	

ASL WO# G4573



TASEKO MINES LIMITED  
PROSPERITY PROJECT AT FISH LAKE

SOIL TEXTURE AND CHEMISTRY  
TERRESTRIAL SOILS COLLECTED IN AUGUST 1996

Date	19-Aug-96	19-Aug-96	19-Aug-96	19-Aug-96	19-Aug-96	19-Aug-96	19-Aug-96	19-Aug-96	19-Aug-96	19-Aug-96	19-Aug-96	
<b>Plot Number</b>	96-61	96-62	96-63	96-63	96-64	96-65	96-65	96-65	96-66	96-66	96-67	96-68
<b>Soil Horizon</b>	C	B <sub>ij</sub> + B <sub>m</sub>	B <sub>m</sub>	BC	B <sub>m</sub>	B <sub>m</sub>	B <sub>m</sub>	C	Oh (org.)	C <sub>g</sub>	B <sub>m</sub>	B <sub>m</sub>
<b>Remarks</b>	Horizon	Horizon	Horizon	Horizon	Horizon	Horizon	Horizon	Horizon	Horizon	Horizon	Horizon	Horizon
<b>Parent Materials</b>	Morainal plain, gently rolling	Morainal plain, slightly ridged	Mixture of till and outwash deposits	Mixture of till and outwash deposits	Mv+Cv over lava bedrock at 28 cm	Morainal blanket moderate slope	Morainal blanket moderate slope	Organic veneer over till blanket	Organic veneer over till blanket	Morainal veneer over salt bedrock at 21 cm	Glaciofluvial esker or kame, hummocky	
<b>Soil group and Subgroup Tentative Identification</b>	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Brunisolic Regosol?	Brunisolic Regosol?	Lithic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Gleysol?	Orthic Humic Gleysol?	Lithic Eutric Brunisol?	Orthic Eutric Brunisol?	
<b>General Parameters</b>												
Moisture %	3.4	5.1	5.9	5.9	4.2	3.7	4.2	68.7	32.3	8.5	3.9	
pH	6.84	6.74	7.24	7.38	6.51	6.10	6.35	6.43	7.00	6.23	6.58	
Conductivity (µmho/cm)	11.6	10.0	29.0	21.8	20.4	11.3	11.9	54.6	20.0	21.0	26.3	
Total Sulphur	0.002	0.003	0.002	0.002	0.018	0.006	0.008	0.390	0.039	0.011	0.023	
Total Organic Carbon C	0.1	0.2	0.3	0.5	0.6	1.3	0.7	27.4	4.5	0.9	1.3	
Total Nitrogen N	0.02	0.03	0.03	0.04	0.08	0.05	0.04	1.76	0.39	0.05	0.08	
Total Phosphate P	7.4	17	3	2.8	8.1	12	13	4.9	2.8	21	10	
Potassium T-K, ppm	458	360	512	437	1530	680	835	1670	1160	836	2250	
Carbon / Nitrogen Ratio	6.0	7.0	10.7	12.3	7.8	26.2	17.5	15.6	11.5	17.0	15.9	
<b>Total Metals</b>												
Aluminum T-Al	23700	35100	30700	20500	29600	27100	29000	54200	38200	31700	26100	
Antimony T-Sb	0.53	0.34	0.34	0.33	1.68	0.74	0.68	1.39	0.72	0.33	0.61	
Arsenic T-As	1.55	1.05	0.87	1.54	6.31	3.19	4.13	3.41	2.58	0.88	1.43	
Barium T-Ba	58	66	80	56	100	91	84	199	143	84	115	
Beryllium T-Be	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.4	0.9	<0.5	<0.5	
Boron T-B	<10	<10	<10	<10	<10	<10	<10	18	<10	<10	<10	
Cadmium T-Cd	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	
Calcium T-Ca	8820	8140	8810	8490	6120	4140	5270	34400	11500	7810	7220	
Chromium T-Cr	93	69	102	63	168	89	90	90	80	126	80	
Cobalt T-Co	20	23	26	23	24	18	19	7	8	32	16	
Copper T-Cu	26	40	28	35	32	31	28	297	226	45	57	
Iron T-Fe	40000	45900	57700	49800	46000	37800	43100	24700	32000	61500	39300	
Lead T-Pb	2	<2	3	2	4	4	4	4	5	2	4	
Magnesium T-Mg	13200	14400	15300	14100	17600	13000	15100	8860	7210	19500	9930	
Manganese T-Mn	457	458	520	666	834	370	537	123	157	613	698	
Mercury T-Hg	0.015	0.013	0.013	0.015	0.037	0.029	0.028	0.593	0.193	0.014	0.017	
Molybdenum T-Mo	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	
Nickel T-Ni	92	90	96	96	160	89	89	192	144	113	58	
Selenium T-Se	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	3.7	0.4	<0.1	<0.1	
Silver T-Ag	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	2.1	0.9	<0.1	<0.1	
Sodium T-Na	1810	1320	1680	1530	567	435	614	577	802	817	995	
Tin T-Sn	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	
Zinc T-Zn	46	54	66	54	85	82	71	58	62	86	72	
Copper / Molybdenum Ratio	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	
<b>Exchangeable Cations</b>												
Cation Exchange Capacity	20.6	23.3	25.2	27.3	22.8	18.5	17.1	153	53	39.1	21.4	
Calcium Ca	8.25	6.5	5.75	6.5	5.5	3.25	3	41.5	17.3	12.5	7.25	
Magnesium Mg	3	4.5	7.25	8.25	6.25	2.5	2.5	17.5	8.75	8.5	4	
Potassium K	0.30	0.13	0.12	0.18	0.45	0.20	0.25	0.50	0.20	0.28	0.80	
Sodium Na	0.10	0.13	0.23	0.22	0.06	0.06	0.10	0.43	0.18	0.09	0.03	
<b>Soil Texture, by Weight</b>												
% Gravel (>2.00mm)	28.3	25.0	21.5	29.3	30.7	21.4	36.1	Organic horizon	<0.1	18.2	16.5	
% Sand (2.00mm - 0.063mm)	39.6	35.2	36.8	36.6	40.0	47.0	42.4	---	20.7	31.1	40.3	
% Silt (0.063mm - 4µm)	26.6	30.1	29.3	23.1	16.5	19.5	14.1	---	39.2	30.2	28.8	
% Clay (<4µm)	5.5	9.7	12.4	11.0	12.8	12.1	7.4	---	40.1	20.5	14.4	
<b>Fine Fragment Composition, % of Fines Represented by:</b>												
Sand	55.2	46.9	46.9	51.8	57.7	59.8	66.4	Organic horizon	20.7	38.0	48.3	
Silt	37.1	40.1	37.3	32.7	23.8	24.8	22.1	---	39.2	36.9	34.5	
Clay	7.7	12.9	15.8	15.6	18.5	15.4	11.6	---	40.1	25.1	17.2	

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**TASEKO MINES LIMITED  
PROSPERITY PROJECT AT FISH LAKE**

**SOIL TEXTURE AND CHEMISTRY  
TERRESTRIAL SOILS COLLECTED IN AUGUST 1996**

Date	19-Aug-96	19-Aug-96	19-Aug-96	20-Aug-96	20-Aug-96	20-Aug-96	20-Aug-96	20-Aug-96	20-Aug-96	20-Aug-96
<b>Plot Number</b>	96-69	96-69	96-69	96-74	96-77	96-77	96-78	96-78	96-78	96-79
<b>Soil Horizon</b>	Ah	Bm	C	B	B	C	Oh Horiz.	B Horiz.	C Horiz.	B Horiz.
<b>Remarks</b>	Horizon	Horizon	Horizon	Horizon	Horizon	Horizon	<11 cm	11-30 cm	>30 cm	
<b>Parent Materials</b>	Morainal plain or morainal blanket	Morainal plain or morainal blanket	Morainal plain or morainal blanket	Morainal blanket Steeply sloping	Residual, hardpan at 23 cm ridge crest	Residual, hardpan at 23 cm ridge crest	Organic blanket	Organic blanket	Organic blanket	Glacio-fluvial
<b>Soil group and Subgroup Tentative Identification</b>	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?		Brunisol?	Brunisol?	Orthic Humic Gleysol?	Orthic Humic Gleysol?	Orthic Humic Gleysol?	Brunisol?
<b>General Parameters</b>										
Moisture %	5.0	4.3	6.8	7.2	7.2	7.9	78.6	75.3	34.7	5.5
pH	5.55	6.42	6.62	6.32	7.05	6.89	7.05	6.85	7.02	6.47
Conductivity (µmho/cm)	19.2	8.2	9.1	28.5	20.6	14.6	35.2	33.4	21.7	17.5
Total Sulphur	0.015	0.007	0.004	0.004	0.011	0.008	0.290	0.320	0.094	0.006
Total Organic Carbon C	4.1	0.4	0.3	1.8	0.9	0.5	31.5	26.1	2.9	1.1
Total Nitrogen N	0.11	0.04	0.03	0.09	0.09	0.05	1.21	1.30	0.43	0.06
Total Phosphate P	72	103	66	15.5	34	17.9	21	6.8	3.6	4.9
Potassium T-K, ppm	1240	855	877	2470	1970	2100	<600	<900	1190	1520
Carbon / Nitrogen Ratio	37.5	9.0	9.3	19.6	10.3	10.4	26.0	20.1	6.8	18.2
<b>Total Metals</b>										
Aluminum T-Al	29500	27600	32800	32800	25900	36100	3170	17900	29200	25000
Antimony T-Sb	0.28	0.31	0.26	0.17	0.43	0.57	1.54	1.35	0.47	0.51
Arsenic T-As	0.38	0.34	0.57	0.44	3.95	5.09	2.29	1.61	3.81	3.76
Barium T-Ba	94	94	111	80	107	128	33	72	109	70
Beryllium T-Be	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<1	<1.5	<0.5	<0.5
Boron T-B	<10	<10	<10	<10	<10	<10	30	<30	<10	<10
Cadmium T-Cd	<2	<2	<2	<2	<2	<2	<4	<6	<2	<2
Calcium T-Ca	4930	6480	8750	7410	7600	8720	60300	53800	15300	6360
Chromium T-Cr	50	46	87	93	50	55	5	30	40	50
Cobalt T-Co	14	13	20	29	15	20	<4	10	17	13
Copper T-Cu	19	24	31	62	31	41	57	159	80	30
Iron T-Fe	37300	32000	43600	45900	39300	43700	3530	18400	38500	37500
Lead T-Pb	3	3	3	2	3	2	<2	5	3	3
Magnesium T-Mg	7700	10100	16200	10300	8830	12000	4150	5620	8650	8890
Manganese T-Mn	831	464	594	1320	569	679	200	902	902	461
Mercury T-Hg	0.028	0.016	0.02	0.013	0.024	0.054	0.099	0.196	0.046	0.018
Molybdenum T-Mo	<4	<4	<4	<4	<4	<4	<8	<12	<4	<4
Nickel T-Ni	47	40	68	75	46	57	24	52	41	38
Selenium T-Se	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.8	2.3	0.3	<0.1
Silver T-Ag	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.5	0.2	<0.1
Sodium T-Na	529	450	961	1050	529	507	<600	<900	1260	666
Tin T-Sn	<30	<30	<30	<30	<30	<30	<60	<90	<30	<30
Zinc T-Zn	150	78	69	128	70	80	10	35	80	56
Copper / Molybdenum Ratio	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
<b>Exchangeable Cations</b>										
Cation Exchange Capacity	24.1	18.2	22.5	30.8	32.3	34.8	191	204	64.3	72.9
Calcium Ca	6.75	7.25	8.5	13.5	16.3	17.8	99	108	38.5	46
Magnesium Mg	0.8	1.23	2	7	5	6.5	18	18	7	12
Potassium K	1.18	1.18	0.73	0.93	0.85	0.95	3.10	1.20	1.35	3.80
Sodium Na	0.04	0.05	0.11	0.04	0.05	0.12	0.41	0.42	0.21	0.20
<b>Soil Texture, by Weight</b>										
% Gravel (>2.00mm)	13.5	18.8	27.6	13.2	15.2	17.4	Organic horizon	Organic horizon	35.9	24.6
% Sand (2.00mm - 0.063mm)	46.1	48.3	41.9	25.9	32.0	33.0	---	---	27.1	35.9
% Silt (0.063mm - 4µm)	31.3	26.1	22.9	39.3	25.3	22.7	---	---	20.0	24.8
% Clay (<4µm)	9.1	6.8	7.6	21.6	27.5	26.9	---	---	17.0	14.7
<b>Fine Fragment Composition, % of Fines Represented by:</b>										
Sand	53.3	59.5	57.9	29.8	37.7	40.0	Organic horizon	Organic horizon	42.3	47.6
Silt	36.2	32.1	31.6	45.3	29.8	27.5	---	---	31.2	32.9
Clay	10.5	8.4	10.5	24.9	32.4	32.6	---	---	26.5	19.5

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TASEKO MINES LIMITED  
PROSPERITY PROJECT AT FISH LAKE

SOIL TEXTURE AND CHEMISTRY  
TERRESTRIAL SOILS COLLECTED IN AUGUST 1996

Date	20-Aug-96	20-Aug-96	20-Aug-96	20-Aug-96	20-Aug-96	20-Aug-96	20-Aug-96	20-Aug-96	20-Aug-96
<b>Plot Number</b>	96-81	96-81	96-82	96-83	96-84	96-84	96-85	96-85	96-85
<b>Soil Horizon</b>	Mineral	Mineral	O1 Layer	B/C	Bm	BC	Ah	Btg	Cg
<b>Remarks</b>	Lick #1	Lick #2	Rooting	Layer	Horizon	Horizon	Horizon	Horizon	Horizon
<b>Parent Materials</b>	Organic blanket , depression in ridged moraine	Organic blanket , depression in ridged moraine	Organic blanket , depression in ridged moraine	Glacio-fluvial, kame or esker	Morainal blanket	Morainal blanket	Organic veneer, toe slope of moraine	Organic veneer, toe slope of moraine	Organic veneer, toe slope of moraine
<b>Soil group and Subgroup Tentative Identification</b>	Mineral Lick	Mineral Lick	Mesisol	Orthic Regosol?	Orthic Gray Luvisol?	Orthic Gray Luvisol?	Orthic Humic Gleysol?	Orthic Humic Gleysol?	Orthic Humic Gleysol?
<b>General Parameters</b>									
Moisture %	79.6	77.2	78.1	9.9	5.0	7.6	72.4	16.8	40.9
pH	7.40	6.72	6.57	7.25	6.68	6.90	8.09	8.46	7.83
Conductivity (µmho/cm)	70.1	75.3	24.8	15.7	10.5	23.6	120.0	105.0	98.4
Total Sulphur	0.700	0.370	0.430	0.002	0.007	0.008	0.302	0.016	0.117
Total Organic Carbon C	30.1	32.5	33.7	0.2	0.5	0.6	31.2	1.3	3.4
Total Nitrogen N	1.80	2.09	2.45	0.03	0.06	0.05	1.58	0.23	0.53
Total Phosphate P	8.9	16	8.9	12.6	34	38	4.3	0.9	1.3
Potassium T-K, ppm	<900	<900	<900	569	1540	1890	721	1170	1480
Carbon / Nitrogen Ratio	16.7	15.6	13.8	6.3	7.7	11.2	19.7	5.4	6.4
<b>Total Metals</b>									
Aluminum T-Al	7090	1790	5110	25700	21500	24700	1890	21100	30100
Antimony T-Sb	12.50	0.13	0.10	0.17	0.23	0.41	0.15	0.21	0.51
Arsenic T-As	17.40	3.45	1.71	0.85	2.38	4.52	2.90	2.87	3.01
Barium T-Ba	48	34	15	51	94	86	37	101	89
Beryllium T-Be	<1.5	<1.5	<1.5	<0.5	<0.5	<0.5	<1	<0.5	<0.5
Boron T-B	64	<30	<30	<10	<10	<10	328	42	55
Cadmium T-Cd	<6	<6	<6	<2	<2	<2	<4	<2	<2
Calcium T-Ca	40400	23000	27200	11100	7710	6620	75200	67400	25400
Chromium T-Cr	788	9	15	90	47	50	<4	26	44
Cobalt T-Co	<6	12	<6	26	19	14	<4	10	13
Copper T-Cu	44	23	27	52	32	35	11	35	53
Iron T-Fe	4130	27300	11600	57400	41700	41000	1950	24400	35400
Lead T-Pb	6	4	<2	<2	3	<2	2	4	4
Magnesium T-Mg	7730	4950	5440	22900	10600	8720	5880	7720	11000
Manganese T-Mn	62	878	253	635	745	627	227	752	331
Mercury T-Hg	0.069	0.107	0.079	0.009	0.024	0.035	0.069	0.026	0.033
Molybdenum T-Mo	14	<12	<12	<4	<4	<4	<8	<4	<4
Nickel T-Ni	27	28	33	95	45	43	5	26	49
Selenium T-Se	40.9	0.3	0.4	<0.1	<0.1	<0.1	0.5	0.5	1.3
Silver T-Ag	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sodium T-Na	<900	<900	<900	1680	727	496	<600	976	1450
Tin T-Sn	<90	<90	<90	<30	<30	<30	<60	<30	<30
Zinc T-Zn	18	16	9	72	65	60	27	46	62
Copper / Molybdenum Ratio	3.14	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
<b>Exchangeable Cations</b>									
Cation Exchange Capacity	180	159	171	41.2	20.6	30.5	189	39.1	64.3
Calcium Ca	85	68	72	16	12.8	13.8	113	30	31.5
Magnesium Mg	33.8	27	28	11.5	3.88	5.25	29	6.5	9.5
Potassium K	3.00	3.20	1.20	0.90	0.90	1.33	2.20	0.60	0.48
Sodium Na	1.04	0.48	0.40	0.08	0.05	0.08	0.69	0.19	0.22
<b>Soil Texture, by Weight</b>									
% Gravel (>2.00mm)	Organic horizon	Organic horizon	Organic horizon	17.7	40.1		Organic horizon	12.4	Organic horizon
% Sand (2.00mm - 0.063mm)	---	---	---	37.6	30.8		---	26.5	---
% Silt (0.063mm - 4µm)	---	---	---	25.6	19.3		---	32.1	---
% Clay (<4µm)	---	---	---	19.1	9.8		---	29.0	---
<b>Fine Fragment Composition, % of Fines Represented by:</b>									
Sand	Organic horizon	Organic horizon	Organic horizon	45.7	51.4		Organic horizon	30.3	Organic horizon
Silt	---	---	---	31.1	32.2		---	36.6	---
Clay	---	---	---	23.2	16.4		---	33.1	---

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TASEKO MINES LIMITED  
PROSPERITY PROJECT AT FISH LAKE

SOIL TEXTURE AND CHEMISTRY  
TERRESTRIAL SOILS COLLECTED IN AUGUST 1996

Date	20-Aug-96	20-Aug-96	20-Aug-96	20-Aug-96	20-Aug-96	20-Aug-96	20-Aug-96	21-Aug-96	21-Aug-96	21-Aug-96	21-Aug-96	21-Aug-96
<b>Plot Number</b>	96-86	96-86	96-86B	96-87	96-87	96-88	96-88	96-89	96-89	96-89	96-90	96-90
<b>Soil Horizon</b>	Bm	C	Residual	Ah	B	B	C	Ae	Btj	C2	A	B
<b>Remarks</b>	Horizon	Horizon	Fr Outcr	Horizon	Horizon	Horizon	Horizon	Horizon	Horizon	Horizon	Horizon	Horizon
<b>Parent Materials</b>	Colluvial veneer / morainal blanket	Colluvial veneer / morainal blanket	Residual soil from rock outcrop	Colluvial veneer, steep south facing slope	Colluvial veneer, steep south facing slope	Colluvial veneer / steep till blanket	Colluvial veneer / steep till blanket	Morainal plain	Morainal plain	Morainal plain	Morainal blanket	Morainal blanket
<b>Soil group and Subgroup Tentative Identification</b>	Orthic Gray Luvisol?	Orthic Gray Luvisol?	Lithic Regosol?	Chernozem? note high Ca content	Chernozem? note high Ca content	Orthic Gray Luvisol?	Orthic Gray Luvisol?	Orthic Gray Luvisol?	Orthic Gray Luvisol?	Orthic Gray Luvisol?	Brunisol?	Brunisol?
<b>General Parameters</b>												
Moisture %	5.8	10.7	5.5	8.2	8.0	9.7	8.0	5.4	6.5	10.6	7.1	6.1
pH	6.91	6.73	7.24	7.79	7.30	7.75	6.99	5.85	6.60	6.92	5.49	5.82
Conductivity (µmho/cm)	24.8	15.6	16.7	43.1	22.5	19.4	18.4	34.2	13.5	17.6	16.0	16.9
Total Sulphur	0.002	0.002	0.006	0.041	0.012	0.034	0.036	0.006	0.006	0.006	0.017	0.005
Total Organic Carbon C	1.5	0.3	0.6	1.8	0.6	1.2	1.8	2.1	0.4	0.4	6.4	1.5
Total Nitrogen N	0.04	0.04	0.05	0.26	0.08	0.24	0.18	0.07	0.04	0.04	0.08	0.08
Total Phosphate P	30	28	7.2	26	3.2	6.4	3.4	21	34	12	34	30
Potassium T-K, ppm	1800	2210	2080	3420	877	4270	2450	1930	981	1350	1130	1140
Carbon / Nitrogen Ratio	36.3	7.8	12.0	6.9	7.4	5.1	10.2	29.6	10.0	9.8	80.1	19.1
<b>Total Metals</b>												
Aluminum T-Al	23500	34800	28100	29100	25600	30400	30200	25300	26200	34700	33500	37200
Antimony T-Sb	0.30	0.38	0.20	0.25	0.30	0.51	0.53	0.36	0.44	0.56	0.43	0.40
Arsenic T-As	0.56	2.85	0.56	2.20	1.73	3.15	4.01	2.06	2.61	5.76	3.73	6.35
Barium T-Ba	107	116	94	102	104	144	117	125	111	123	135	116
Beryllium T-Be	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5
Boron T-B	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Cadmium T-Cd	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Calcium T-Ca	6760	7750	5410	10200	10500	9790	9850	7130	5300	7100	4200	4710
Chromium T-Cr	60	69	87	68	71	54	60	49	56	60	32	37
Cobalt T-Co	20	19	29	22	24	17	19	16	17	20	16	16
Copper T-Cu	31	41	35	46	49	39	46	31	33	54	26	44
Iron T-Fe	40400	47900	56900	47600	43900	46100	43000	34800	39000	46500	39300	41900
Lead T-Pb	<2	<2	3	<2	<2	3	2	3	3	3	3	4
Magnesium T-Mg	8550	11900	11400	15800	21300	10400	14100	6190	7060	9940	7240	9510
Manganese T-Mn	564	558	1170	696	639	843	713	984	447	650	1420	607
Mercury T-Hg	0.016	0.029	0.014	0.015	0.027	0.018	0.031	0.013	0.011	0.042	0.024	0.021
Molybdenum T-Mo	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4
Nickel T-Ni	46	71	100	74	108	49	69	34	44	62	39	47
Selenium T-Se	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Silver T-Ag	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sodium T-Na	699	443	594	997	962	969	963	1270	627	769	673	634
Tin T-Sn	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30
Zinc T-Zn	74	73	117	78	76	108	82	74	58	54	133	95
Copper / Molybdenum Ratio	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
<b>Exchangeable Cations</b>												
Cation Exchange Capacity	19.8	41	26.5	45.5	35.6	32.7	39.4	20.1	18.7	33.7	21.2	23
Calcium Ca	10.3	16	11.5	19.5	17.8	14	17	8.75	9.75	13.8	7	6.75
Magnesium Mg	5	9.75	6.5	9.15	10.5	6.25	9	3	3.75	8	2	2
Potassium K	1.05	1.05	1.13	2.13	0.53	1.03	1.15	1.13	0.40	1.03	0.58	0.80
Sodium Na	0.09	0.16	0.05	0.04	0.18	0.06	0.09	0.06	0.10	0.16	0.05	0.06
<b>Soil Texture, by Weight</b>												
% Gravel (>2.00mm)	14.2	30.3	13.3	9.9	29.1	17.6	24.0	5.3	5.9	20.5	11.0	22.7
% Sand (2.00mm - 0.063mm)	37.2	25.8	39.8	42.3	32.8	37.0	26.3	34.4	30.3	22.7	43.8	41.5
% Silt (0.063mm - 4µm)	33.1	16.5	32.8	22.6	21.4	23.8	19.5	42.2	41.3	22.9	37.4	28.4
% Clay (<4µm)	15.5	27.4	14.1	25.2	16.7	21.6	30.2	18.1	22.5	33.9	7.8	7.4
<b>Fine Fragment Composition, % of Fines Represented by:</b>												
Sand	43.4	37.0	45.9	46.9	46.3	44.9	34.6	36.3	32.2	28.6	49.2	53.7
Silt	38.6	23.7	37.8	25.1	30.2	28.9	25.7	44.6	43.9	28.8	42.0	36.7
Clay	18.1	39.3	16.3	28.0	23.6	26.2	39.7	19.1	23.9	42.6	8.8	9.6

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TASEKO MINES LIMITED  
PROSPERITY PROJECT AT FISH LAKE

SOIL TEXTURE AND CHEMISTRY  
TERRESTRIAL SOILS COLLECTED IN AUGUST 1996

Date	21-Aug-96	21-Aug-96	21-Aug-96	21-Aug-96	21-Aug-96	21-Aug-96	21-Aug-96	21-Aug-96	21-Aug-96	21-Aug-96
<b>Plot Number</b>	96-100	96-100	96-100	96-101	96-101	96-101	96-101	96-102	96-102	96-102
<b>Soil Horizon</b>	Ah	Bg	Cg	Oh1 Horiz.	Oh2 Horiz.	Oh3 Horiz.	Cg Horiz.	Ah	Bm	C
<b>Remarks</b>	8-14 cm	14-36 cm	36+ cm	0-23 cm	23-40 cm	40-53 cm	53-73 cm	Horizon	Horizon	Horizon
<b>Parent Materials</b>	Organic veneer / glaciofluvial meltwater channel	Organic veneer / glaciofluvial meltwater channel	Organic veneer / glaciofluvial meltwater channel	Organic blanket / glaciofluvial meltwater channel	Organic blanket / glaciofluvial meltwater channel	Organic blanket / glaciofluvial meltwater channel	Organic blanket / glaciofluvial meltwater channel	Morainal blanket, west-facing dry aspect	Morainal blanket, west-facing dry aspect	Morainal blanket, west-facing dry aspect
<b>Soil group and Subgroup Tentative Identification</b>	Orthic Humic Gleysol?	Orthic Humic Gleysol?	Orthic Humic Gleysol?	Terric Mesisol	Terric Mesisol	Terric Mesisol	Terric Mesisol	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?
<b>General Parameters</b>										
Moisture %	42.5	13.1	6.2	78.1	79.8	77.7	71.9	5.4	3.8	3.3
pH	6.87	7.71	7.76	6.85	6.73	6.72	6.73	6.77	6.16	6.85
Conductivity (µmho/cm)	56.5	33.6	24.5	6.85	6.73	6.72	6.73	6.77	6.16	6.85
Total Sulphur	0.181	0.019	0.010	0.910	0.970	1.080	1.240	0.005	0.007	0.003
Total Organic Carbon C	15.2	0.8	0.3	33.5	34.1	35.8	36.7	1.4	0.8	0.5
Total Nitrogen N	0.96	0.11	0.05	2.70	2.45	3.29	3.47	0.05	0.05	0.03
Total Phosphate P	6.4	1.3	0.9	9.8	7.7	9.8	4.7	23	32	28
Potassium T-K, ppm	827	664	726	<600	<900	<600	<600	2570	1550	1120
Carbon / Nitrogen Ratio	15.8	7.3	6.0	12.4	13.9	10.9	10.6	27.0	16.6	16.7
<b>Total Metals</b>										
Aluminum T-Al	24100	30900	26200	1600	1520	1980	4260	31100	23800	19400
Antimony T-Sb	0.38	0.43	0.55	0.26	0.27	0.31	0.56	0.34	0.48	0.63
Arsenic T-As	5.99	3.98	5.59	2.49	4.77	8.03	11.30	3.08	3.32	5.48
Barium T-Ba	70	151	134	11	36	57	77	211	124	70
Beryllium T-Be	0.5	<0.5	<0.5	<1	<1.5	<1	<1	<0.5	<0.5	<0.5
Boron T-B	11	<10	<10	24	32	25	<20	<10	<10	<10
Cadmium T-Cd	<2	<2	<2	<4	<6	<4	<4	<2	<2	<2
Calcium T-Ca	30100	8860	8800	23400	24000	26800	33100	5740	5050	5070
Chromium T-Cr	36	58	41	<4	<6	7	19	37	32	34
Cobalt T-Co	13	10	16	5	7	8	8	13	11	11
Copper T-Cu	63	23	35	17	23	37	74	20	23	37
Iron T-Fe	23700	38500	39500	4190	6220	6580	5940	36600	32900	31500
Lead T-Pb	3	3	3	8	5	4	<2	5	4	4
Magnesium T-Mg	9330	7640	10100	5080	4950	5000	5530	7250	7660	7630
Manganese T-Mn	1210	292	714	65	132	148	188	996	445	326
Mercury T-Hg	0.081	0.193	0.028	0.055	0.058	0.051	0.078	0.012	0.014	0.012
Molybdenum T-Mo	<4	<4	<4	<8	<12	17	50	<4	<4	<4
Nickel T-Ni	52	29	48	19	46	77	91	36	32	28
Selenium T-Se	0.9	0.1	<0.1	0.4	0.5	1	2.7	<0.1	<0.1	<0.1
Silver T-Ag	0.2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Sodium T-Na	725	1020	1130	<600	<900	<600	<600	766	671	589
Tin T-Sn	<30	<30	<30	<60	<90	<60	<60	<30	<30	<30
Zinc T-Zn	40	39	50	44	66	37	7	145	77	44
Copper / Molybdenum Ratio	N.A.	N.A.	N.A.	N.A.	N.A.	2.18	1.48	N.A.	N.A.	N.A.
<b>Exchangeable Cations</b>										
Cation Exchange Capacity	70.7	32.4	20.6	135	130	146	154	17.7	16.1	13.7
Calcium Ca	38.5	16.5	12.5	59	57	61	55	6.5	6.75	6.5
Magnesium Mg	16.5	9	6.5	23	22	23	22.5	2.75	2.25	2.25
Potassium K	1.15	0.75	0.63	1.60	0.46	1.00	0.40	1.00	0.58	0.40
Sodium Na	0.43	0.28	0.28	0.83	0.87	0.75	0.65	0.04	0.05	0.06
<b>Soil Texture, by Weight</b>										
% Gravel (>2.00mm)	Organic horizon	17.9	32.0	Organic horizon	Organic horizon	Organic horizon	Organic horizon	19.7	38.0	36.5
% Sand (2.00mm - 0.063mm)	---	15.3	27.4	---	---	---	---	48.9	41.4	40.3
% Silt (0.063mm - 4µm)	---	41.4	25.3	---	---	---	---	23.1	15.1	18.9
% Clay (<4µm)	---	25.4	15.3	---	---	---	---	8.3	5.5	4.3
<b>Fine Fragment Composition, % of Fines Represented by:</b>										
Sand	Organic horizon	18.6	40.3	Organic horizon	Organic horizon	Organic horizon	Organic horizon	60.9	66.8	63.5
Silt	---	50.4	37.2	---	---	---	---	28.8	24.4	29.8
Clay	---	30.9	22.5	---	---	---	---	10.3	8.9	6.8

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Appendix O Talisman Soil Chemical Data

TASEKO MINES LIMITED  
PROSPERITY PROJECT AT FISH LAKE

SOIL TEXTURE AND CHEMISTRY  
TERRESTRIAL SOILS COLLECTED IN AUGUST 1996

Date	21-Aug-96	21-Aug-96	21-Aug-96	21-Aug-96	21-Aug-96
<b>Plot Number</b>	96-103	96-103	96-104	96-104	96-104
<b>Soil Horizon</b>	Ah	Bm	Ah Layer	B Layer	Cg Layer
<b>Remarks</b>	Horizon	Horizon			
<b>Parent Materials</b>	Morainal blanket, gullied by meltwater channel	Morainal blanket, gullied by meltwater channel	Seepage, depression in morainal plain	Seepage, depression in morainal plain	Seepage, depression in morainal plain
<b>Soil group and Subgroup Tentative Identification</b>	Orthic Eutric Brunisol?	Orthic Eutric Brunisol?	Rego Humic Gleysol?	Rego Humic Gleysol?	Rego Humic Gleysol?
<b>General Parameters</b>					
Moisture %	13.3	4.8	81.7	79.6	24.9
pH	6.56	6.36	8.09	7.17	7.11
Conductivity (µmho/cm)	19.1	23.5	212.0	160.0	84.0
Total Sulphur	0.005	0.005	0.670	0.850	0.101
Total Organic Carbon C	2.4	1.0	43.5	40.3	5.5
Total Nitrogen N	0.14	0.07	2.05	2.57	0.33
Total Phosphate P	20	43	4.7	8.5	6
Potassium T-K, ppm	2850	2070	<900	903	1400
Carbon / Nitrogen Ratio	17.1	14.6	21.2	15.7	16.7
<b>Total Metals</b>					
Aluminum T-Al	26100	24400	1310	1690	20600
Antimony T-Sb	0.47	1.18	0.19	0.77	0.86
Arsenic T-As	3.29	3.45	4.58	7.31	6.37
Barium T-Ba	235	162	49	58	88
Beryllium T-Be	<0.5	<0.5	<1.5	<1	<0.5
Boron T-B	<10	<10	37	55	10
Cadmium T-Cd	<2	<2	<6	<4	<2
Calcium T-Ca	8400	6880	68000	54000	17100
Chromium T-Cr	52	65	<6	5	56
Cobalt T-Co	15	18	<6	5	11
Copper T-Cu	62	52	10	31	137
Iron T-Fe	34800	37900	5990	5700	26300
Lead T-Pb	5	5	6	6	4
Magnesium T-Mg	8200	10300	4860	5170	9350
Manganese T-Mn	1170	870	263	82	214
Mercury T-Hg	0.019	0.016	0.02	0.029	0.062
Molybdenum T-Mo	<4	<4	<12	<8	<4
Nickel T-Ni	41	60	28	64	83
Selenium T-Se	<0.1	<0.1	1	4.4	1
Silver T-Ag	<0.1	<0.1	<0.1	<0.1	0.2
Sodium T-Na	1070	960	<900	<600	894
Tin T-Sn	<30	<30	<90	<60	<30
Zinc T-Zn	97	87	33	9	48
Copper / Molybdenum Ratio	N.A.	N.A.	N.A.	N.A.	N.A.
<b>Exchangeable Cations</b>					
Cation Exchange Capacity	28.9	19.8	140	193	47.7
Calcium Ca	10.3	7.75	123	125	19.9
Magnesium Mg	4.5	3.75	24	29	6.5
Potassium K	1.25	0.45	4.10	3.30	0.43
Sodium Na	0.07	0.09	0.82	0.96	0.22
<b>Soil Texture, by Weight</b>					
% Gravel (>2.00mm)	2.5	3.1	Organic horizon	Organic horizon	<0.1
% Sand (2.00mm - 0.063mm)	32.2	34.5	horizon	horizon	29.8
% Silt (0.063mm - 4µm)	41.7	42.1	---	---	38.6
% Clay (<4µm)	23.6	20.3	---	---	31.6
<b>Fine Fragment Composition, % of Fines Represented by:</b>					
Sand	33.0	35.6	Organic horizon	Organic horizon	29.8
Silt	42.8	43.4	horizon	horizon	38.6
Clay	24.2	20.9	---	---	31.6

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