



# **Taseko Prosperity Gold-Copper Project**

## **Appendix 3-7-X**



**CANADIAN ENVIRONMENTAL & METALLURGICAL INC.**

Environmental and Metallurgical Laboratory Testing, Process Development  
& Innovative Water Treatment

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## **Taseko Mines Ltd.**

### ***Prosperity Project***

Kinetic Test Results to June 18, 2008

Rikkert J. Vos Director  
SGS CEMI

July 4, 2008

Client: Taseko Mines Ltd.  
 Project: Prosperity  
 Project No: 0697

CELL DESCRIPTION

Cell No.	Sample ID	Sample Type	Method Reference	Column Dimensions			Column Packing		Pore Volume (mL)	Total Volume of Initial Flushings (mL)	Flushing Rate/Weekly Input (mL)	Temp (°C)	Sampling Frequency	Start-up date	Sampling Day	Operation Procedure	Sample prep for flushings	
				Inner Diameter (cm)	Length (cm)	Sample Depth (cm)	Dry Wt. of Sample (kg)	Other Materials Used										Column Material
1	92-011 142-144	Waste Rock	MEND 9991	10.16	20.32	8.3	1.00	PVC perforated disk & nylon mesh	Plexiglas	750	500	20-22 °C	Weekly	12/20/2006	Wednesday	Flood Leach	none	
2	92-048 158-160	Waste Rock	MEND 9991	10.16	20.32	8.3	1.00	PVC perforated disk & nylon mesh	Plexiglas	750	500	20-22 °C	Weekly	12/20/2006	Wednesday	Flood Leach	none	
3	92-059 58-60	Waste Rock	MEND 9991	10.16	20.32	8.3	1.00	PVC perforated disk & nylon mesh	Plexiglas	750	500	20-22 °C	Weekly	12/20/2006	Wednesday	Flood Leach	none	
4	92-084 90-92	Waste Rock	MEND 9991	10.16	20.32	8.3	1.00	PVC perforated disk & nylon mesh	Plexiglas	750	500	20-22 °C	Weekly	12/20/2006	Wednesday	Flood Leach	none	
5	97-251 68-70	Waste Rock	MEND 9991	10.16	20.32	8.3	1.00	PVC perforated disk & nylon mesh	Plexiglas	750	500	20-22 °C	Weekly	12/20/2006	Wednesday	Flood Leach	none	
6	92-024 150-152	Waste Rock	MEND 9991	10.16	20.32	8.3	1.00	PVC perforated disk & nylon mesh	Plexiglas	750	500	20-22 °C	Weekly	12/20/2006	Wednesday	Flood Leach	none	
7	92-083 86-88	Waste Rock	MEND 9991	10.16	20.32	8.3	1.00	PVC perforated disk & nylon mesh	Plexiglas	750	500	20-22 °C	Weekly	12/20/2006	Wednesday	Flood Leach	none	
8	92-084 318-320	Waste Rock	MEND 9991	10.16	20.32	8.3	1.00	PVC perforated disk & nylon mesh	Plexiglas	750	500	20-22 °C	Weekly	12/20/2006	Wednesday	Flood Leach	none	
9	97-264 290-292	Waste Rock	MEND 9991	10.16	20.32	8.3	1.00	PVC perforated disk & nylon mesh	Plexiglas	750	500	20-22 °C	Weekly	12/20/2006	Wednesday	Flood Leach	none	
10	KM 1961 Master Comp	Waste Rock	MEND 9991	10.16	20.32	8.3	1.00	PVC perforated disk & nylon mesh	Plexiglas	750	500	20-22 °C	Weekly	12/20/2006	Wednesday	Flood Leach	none	
11	KM 1961 Master Comp Duplicate	Waste Rock	MEND 9991	10.16	20.32	8.3	1.00	PVC perforated disk & nylon mesh	Plexiglas	750	500	20-22 °C	Weekly	12/20/2006	Wednesday	Flood Leach	none	
12	234170-24173 Comp.	Waste Rock	MEND 9991	10.16	20.32	8.3	1.00	PVC perforated disk & nylon mesh	Plexiglas	750	500	20-22 °C	Weekly	Oct 10/07	Wednesday	Flood Leach	none	
13	234189-234192 Comp.	Waste Rock	MEND 9991	10.16	20.32	8.3	1.00	PVC perforated disk & nylon mesh	Plexiglas	750	500	20-22 °C	Weekly	Oct 10/07	Wednesday	Flood Leach	none	
A	Rougher + Cleaner Tails Composite consisting of 1.00 kg CI Tails combined with 21.51 kg Rc Tails.	Tailings	MEND 9991	20.32	11.43	2.0	1.00	PVC perforated disk & nylon mesh	Plexiglas	750	500	20-22 °C	Weekly	3/13/2007	Monday	Flood Leach	none	
B	Rougher + Cleaner Tails Composite consisting of 1.00 kg CI Tails combined with 21.51 kg Rc Tails.	Tailings	MEND 9991	20.32	11.43	2.0	1.00	PVC perforated disk & nylon mesh	Plexiglas	750	500	20-22 °C	Weekly	3/13/2007	Monday	Flood Leach	none	
Unsaturated Column A	Rougher + Cleaner Tails Composite consisting of 1.00 kg CI Tails combined with 21.51 kg Rc Tails.	Tailings	NA	10.16	46.00	37.0	4.20	PVC perforated disk & nylon mesh	Plexiglas	1415	200-300	20-22 °C	Weekly	3/19/2007	Friday	Trickle Leach	none	
Unsaturated Column B	Rougher + Cleaner Tails Composite consisting of 1.00 kg CI Tails combined with 21.51 kg Rc Tails.	Tailings	NA	10.16	46.00	37.0	4.20	PVC perforated disk & nylon mesh	Plexiglas	1500	200-300	20-22 °C	Weekly	3/19/2007	Friday	Trickle Leach	none	
Subaqueous A	Rougher + Cleaner Tails Composite consisting of 1.00 kg CI Tails combined with 21.51 kg Rc Tails.	Tailings	NA	17.14	61.00	16.5 with 30 cm overlying water	5.00	PVC perforated disk & nylon mesh	Plexiglas	1900	6920 mL of overlying water	NA	20-22 °C	Weekly	3/20/2007	Wednesday	Overlying water circulation	none
Subaqueous B	Rougher + Cleaner Tails Composite consisting of 1.00 kg CI Tails combined with 21.51 kg Rc Tails.	Tailings	NA	17.14	61.00	16.5 with 30 cm overlying water	5.00	PVC perforated disk & nylon mesh	Plexiglas	1900	6920 mL of overlying water	NA	20-22 °C	Weekly	3/20/2007	Wednesday	Overlying water circulation	none
Sub- Waste Rock Comp. A	1.3 kg 92-011 142-144, 1.3 kg 92-084 90-92, 1.3 kg 92-084 318-320 waste rock.	Waste Rock	NA	17.14	61.00	11 cm with 30 cm overlying water	3.90	PVC perforated disk & nylon mesh	Plexiglas		6920 mL of overlying water		20-22 °C	Weekly	7/19/2007		Overlying water circulation	none
Sub- Waste Rock Comp. B	1.3 kg 92-011 142-144, 1.3 kg 92-084 90-92, 1.3 kg 92-084 318-320 waste rock.	Waste Rock	NA	17.14	61.00	11 cm with 30 cm overlying water	3.90	PVC perforated disk & nylon mesh	Plexiglas		6920 mL of overlying water		20-22 °C	Weekly	7/19/2007		Overlying water circulation	none







Client: Taseko Mines Ltd.
Project: Prosperity
Project No: 0697
Test: Subaqueous Waste Rock B Bottom Port Sampling
Sample = 1.3 kg 92-011 142-144, 1.3 kg 92-084 90-92, 1.3 kg 92-084 318-320 waste rock

Table with columns: Date, Cycle, Volume ml, pH, ORP SHE mV, Cond. umhos/cm, Acidity (pH 4.5) mgCaCO3/L, Acidity (pH 8.3) mgCaCO3/L, Alkalinity mgCaCO3/L, Sulphate mg/L, Chloride mg/L, Fluoride mg/L, Hardness CaCO3 mg/L, and various elements (Al, Sb, As, Ba, Be, Bi, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mn, Hg, Mo, Ni, P, K, Se, Si, Ag, Na, Sr, S, Tl, Sn, Ti, U, V, Zn, Zr, Dissolved Oxygen, Sulphide).

Notes:
Blank cells indicate no analysis was conducted.
Negative values indicate analytical results were below detection limit.
#NA indicates either parameter not analyzed or result rejected following data quality review.
QC Notes:
ORP from Cycle 1 to 5 taken incorrectly.
Sept 27/07 Ca 900. Repeat = 662.
July 26 - Nov 29/07 DO taken incorrectly due to vigorous agitation of sample in the presence of nitrogen gas.
April 9/08 Fluoride being repeated to lower DL.
June 4/08 Chloride being repeated to lower DL.