Appendix B: Effluent Toxicity Testing (WET), Whole Rock Geochemistry, and Flotation Tailings Solids Chemistry Data

Appendix B. Table 1. Pogo Mine Whole Effluent Toxicity (WET) Testing 2012.

Lab	Species	NOEC (%)	LOEC (%)	IC_{25} (%)	TUc
CH2MHILL	*Ceriodaphnia dubia*	100	>100	>100	<1.00
	Pimephales promelas	100	12.5	>100	<1.00
AECOM	*Ceriodaphnia dubia*	100	>100	>100	<1.00
	Pimephales promelas	100	>100	>100	<1.00

NOEC = No Observed Effect Concentration

LOEC = Low Observed Effect Concentration

IC_{25} = Inhibition Concentration (25%)

TU_c = Toxic Units (Chronic)

Appendix B. Table 2. Whole Rock Geochemistry for Rock placed into Drystack 2012.

PC002	units	1st Quarter 3/10/12	2nd Quarter 6/14/12	3rd Quarter 9/5/12	4th Quarter 12/1/12
Antimony, Total	mg/kg	2.10	2.12	1.55	1.53
Arsenic, Total	mg/kg	1080.0	733	778	294
Carbon	%	0.44	0.69	0.78	0.50
Copper, Total	mg/kg	34.9	37.6	33.3	67.8
Inorganic Carbon	%	1.6	2.5	2.9	1.8
Iron, Total	mg/kg	44900	44000	42000	50800
Lead, Total	mg/kg	16.3	15.3	24.3	29.4
Maximum Potential Acidity	tCaCO3/1000t	8.4	13.8	9.1	18.4
Net Neutralization Potential	tCaCO3/1000t	35	50	40	32
pH, Paste	pH units	8.5	8.3	8.3	8.5
Potassium, Total	mg/kg	20600	20300	22100	22600
Ratio (NP/MPA)	su	5.10	4.65	5.41	2.71
Selenium, Total	mg/kg	2	2	3	3
Sodium, Total	mg/kg	14300	10600	9900	15100
Sulfate Sulfur (CO_3 Leach)	%	0.04	0.02	0.02	0.03
Sulfate Sulfur (HCL Leach)	%	0.03	<0.01	0.01	<0.01
Sulfide Sulfur (Calculated)	%	0.23	0.42	0.27	0.56
Sulfur, Total	%	0.27	0.44	0.29	0.59
Zinc, Total	mg/kg	57	61	65	73

Appendix B. Table 3. GEOCHEMISTRY OF FLOTATION TAILINGS SOLIDS PLACED INTO DRYSTACK 2012.

PC003	units	1st Quarter 3/13/12	2nd Quarter 6/19/12	3rd Quarter 9/22/12	4th Quarter 12/9/12
Antimony, Total	mg/kg	2.57	1.68	1.27	1.76
Arsenic, Total	mg/kg	518	803	616	640
Carbon	%	0.45	0.51	0.48	0.52
Copper, Total	mg/kg	38.8	52.3	60.5	54.4
Inorganic Carbon	%	1.7	1.9	1.8	1.9
Iron, Total	mg/kg	21500	21700	20300	21000
Lead, Total	mg/kg	7.3	6.9	8.0	7.9
Maximum Potential Acidity	tCaCO3/1000t	3.1	3.8	3.8	4.1
Net Neutralization Potential	tCaCO3/1000t	31	32	32	38
pH, Paste	pH units	8.3	8.0	8.1	8.2
Potassium, Total	mg/kg	15100	13800	15500	18200
Ratio (NP/MPA)	su	10.88	9.60	9.60	10.34
Selenium, Total	mg/kg	1	1	2	1
Sodium, Total	mg/kg	4400	4000	4600	4400
Sulfate Sulfur (CO_3 Leach)	%	0.05	0.04	0.02	0.01
Sulfate Sulfur (HCL Leach)	%	0.02	<0.01	<0.01	<0.01
Sulfide Sulfur (Calculated)	%	0.05	0.08	0.10	0.12
Sulfur, Total	%	0.10	0.12	0.12	0.13
Zinc, Total	mg/kg	13	15	12	13