

0008

*Incoming
C/007/0041*

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Date: 2/9/2009 2:42 PM
Subject: lab analysis of C Canyon accumulations
Attachments: West Ridge Solids Analysis.doc

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Gentlemen.....As per your request, attached is the lab analysis of the coal fines material which has accumulated in the drainage below the West Ridge Mine.

West Ridge Solids Discharge (sampled 1/28/09)
Initial Analysis

Analyte	Units	Analytical Result
pH	saturated paste standard units	7.92
Total Organic Carbon	%	16.3
Total Petroleum Hydrocarbons (DRO C10-28)	mg/Kg	3600
Total Volatile Solids	% of total solids	16
Acid Generation Potential	Tons CaCO ₃ equivalent/1000 tons	53
Acid Neutralization Potential	Tons CaCO ₃ equivalent/1000 tons	293
Acid-Base Potential	Tons CaCO ₃ equivalent/1000 tons	240
Neutralization Potential	%	29.3
Sulfur (organic)	%	0.92
Sulfur (pyritic sulfide)	%	0.35
Sulfur (sulfate)	%	0.44
Total sulfur	%	1.71
Specific Gravity (of solids)	Gs	2.052

DOGM-Requested Table 3 Analytes

Analyte	Units	Analytical Result
pH	saturated paste standard units	7.92
Saturation %	%	96.55
EC_e	µmhos/cm	870
Sodium	mg/Kg	1200
Potassium	mg/Kg	1500
Magnesium	mg/Kg	12000
Calcium	mg/Kg	85000
Nitrate (as N)	mg/Kg	<0.029
Total Phosphorus (as P)	mg/Kg	290
Particle Size Analysis	% <200 sieve	75.5
CaCO₃	mg/Kg	<29

DOGM-Requested Table 7 Analytes

Analyte	Units	Analytical Result
Total Organic Carbon	%	16.3
Selenium	mg/kg	3.7
Boron	mg/kg	<150
Acid Generation Potential	Tons CaCO ₃ equivalent/1000 tons	53
Neutralization Generation Potential	Tons CaCO ₃ equivalent/1000 tons	293