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OGMCOAL - RE: Extra Parameters for Crandall Canyon

From: Kevin Lundmark
To: Dana Marrelli
Date: 6/28/2010 9:10 AM
Subject: RE: Extra Parameters for Crandall Canyon
CC: Dave Shaver; OGMCOAL; Steve Christensen

Hi Dana,

Thanks for the quick reply. Please remember that analysis for ferrous iron at pre- and post-treatment locations is an ongoing requirement of the mine permit, therefore this test is still necessary along with the other monitoring parameters identified in the MRP Appendix 7-65. From our conversation this morning I understand that you completed the ferrous iron field test at both locations for the June samples (collected 6/23).

Kevin

>>> "Marrelli, Dana" <dmarrelli@coalsource.com> 6/28/2010 8:24 AM >>>

Hello Kevin,

I took the 002 sample at 11:30 and the Pre-002 sample at 12:05 on May 18th, 2010. The flow at that time was 520 gpm. I did not do the ferrous iron analysis on Pre-002, I looked all through my notes and I must have skipped it. Sorry! Is it still necessary to do the ferrous test?

Dana

From: Kevin Lundmark [mailto:kevinlundmark@utah.gov]
Sent: Monday, June 28, 2010 7:13 AM
To: Marrelli, Dana
Cc: Shaver, Dave; Steve Christensen
Subject: Re: Extra Parameters for Crandall Canyon
Importance: Low

Thanks Dana.

A couple questions:

- What time were the samples collected, and what was the mine water discharge on May 18, 2010 at the time of sampling?
- Why was a ferrous iron analysis completed at 002 and not at Pre-002?

Kevin

>>> "Marrelli, Dana" <dmarrelli@coalsource.com> 6/25/2010 9:00 AM >>>

Hello...

Here are the extra parameters for the Month of May. All the samples were taken on 5/18/10.

The flow in the blue pipe was 2 gpm. I didn't do a ferrous sample on the Pre-002.

Parameter		Pre-002	002
Iron	total, mg/L	3.119	0.502
	dissolved, mg/L	0.965	<0.010
	ferrous, mg/L		0.144
Aluminum	total, mg/L	0.04	1.00
	dissolved, mg/L	<0.02	<0.02
	total, mg/L	0.126	0.103

Manganese	dissolved, mg/L	0.126	0.108
pH	std. units	6.93	7.14
Temperature	deg. C	11	10.5
Conductivity	μ mhos/cm ²	1000	980
Dissolved Oxygen	mg/L	5.23	6.93
Alkalinity	Bicarbonate, mg/L	382	373
	Carbonate, mg/L	<10	<10
	Total	382	373
Sulfate	mg/L	183.60	185.20

Thank you,

Dana Marrelli

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