

**OGMCOAL - Re: Parameters for the Month July 2010**

**From:** Jeffrey Studenka  
**To:** Christensen, Steve; Lundmark, Kevin; Marrelli, Dana  
**Date:** 8/3/2010 11:03 AM  
**Subject:** Re: Parameters for the Month July 2010  
**CC:** Hibbs, David; Shaver, Dave

Thanks Dana. Good to see the total iron levels maintaining within the compliance limit. I've noticed that the total aluminum is trending upward the past couple months. We need to be sure the in-stream concentrations do not exceed the applicable WQS of 0.75 mg/L. Therefore, please collect a stream sample below the mine (if you haven't already done so in the past month) for total aluminum, as the last such sample I have from you is from 5-17-2010 and the result was 0.44 for below the mine while 002 was 1.03 mg/L.

Thanks and call with any questions.

**Jeff Studenka**

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>>> "Marrelli, Dana" <dmarrelli@coalsource.com> 8/3/2010 10:10 AM >>>  
 Hello...

Here are the extra parameters for the Month of July.  
 All the samples were taken on 7/21/10, except ferrous iron.  
 The flow in the blue pipe = 2.1 gpm.  
 The flow rate on 7/21/2010 = 482 gpm.

Parameter		Pre-002	002
Iron	total, mg/L	3.97	0.68
	dissolved, mg/L	0.73	0.04
	ferrous, mg/L	0.44	1.04
Aluminum	total, mg/L	<0.03	2.34
	dissolved, mg/L	<0.03	<0.03
Manganese	total, mg/L	0.113	0.095
	dissolved, mg/L	0.113	0.095
pH	std. units	7.27	7.98
Temperature	deg. C	16	13
Conductivity	µmhos/cm2	956	929
Dissolved Oxygen	mg/L	4.48	8.46

7/15/10

Alkalinity	Bicarbonate, mg/L	370	359
	Carbonate, mg/L	<5	<5
	Total	370	359
Sulfate	mg/L	158	157

Thank you,

*Dana Marrelli*

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