

OGMCOAL - RE: Fwd: Crandall Canyon Mine

From: Steve Christensen
To: Dana Marrelli
Date: 2/8/2011 10:50 AM
Subject: RE: Fwd: Crandall Canyon Mine
CC: Dana Dean; Daron Haddock; Dave Shaver; Denise Dragoo; Jim Smith; Ke...

Dana,

Thanks for the heads up on the initiation of the new chemical tests. Kevin Lundmark had requested information regarding the new chemicals on February 3rd, 2011 (see e-mail below). Specifically:

1. Genwal's plan and schedule for testing these chemicals at the site;
2. the expected application rates for these chemicals based on WaterSolve's bench testing; and
3. the bench test report(s) prepared by WaterSolve.

Have you sent that information to us? If so, let us know and we'll try to track it down. If not, e-mailing us the day you are initiating the tests of the new chemical without the basic information that we asked for is unacceptable.

We're encouraged that the new chemical that you propose to use at the site may eliminate issues relative to aluminum. However, the information that Kevin requested is reasonable given the issues and sensitivity associated with the Crandall Creek/Huntington Creek drainage. We have numerous stakeholders that we as the regulatory authority must answer to and questions as to the chemical's application rate is an example of a basic question that we need to be able to answer.

Additionally, Kevin e-mailed you a second time on February 3rd with several questions relating to the 1 ppm coagulant assumption for the polymer test. Specifically, Kevin had requested that you discuss with WaterSolve, SGS and/or Nalco the 1 ppm coagulant concentration assumption for the polymer test and get back to us with either an explanation of why 1 ppm is appropriate or a plan to modify the polymer test procedure. We also requested an explanation of the 2nd page of the scan you sent 1/31. To my knowledge, we have not received a response to these requests either.

Give me a call when you get a chance and we can discuss it.

Thanks Dana,
Steve

>>> "Marrelli, Dana" <dmarrelli@coalsource.com> 2/8/2011 8:20 AM >>>
Hello Kevin,

We are starting the new iron based chemical today. I will start with the same application rate as the other coagulant. It will take some time to see if we need to increase or decrease the rate. We will be testing one chemical at a time and have decided to try the coagulant first, as you know if this chemical works as well as the bench tests, this will eliminate our aluminum issue.

The information on the new chemical have been sent to both Forest Service and DWQ.

Thanks,
Dana

From: Kevin Lundmark [mailto:kevinlundmark@utah.gov]
Sent: Thursday, February 03, 2011 6:51 AM
To: Marrelli, Dana
Cc: Shaver, Dave; Denise Dragoo; Dana Dean; Daron Haddock; Steve Alder; Steve Christensen
Subject: Re: Fwd: Crandall Canyon Mine

Dana,

Thanks for sending this information along. Can you please provide the Division the following:

1. Genwal's plan and schedule for testing these chemicals at the site;
2. the expected application rates for these chemicals based on WaterSolve's bench testing; and
3. the bench test report(s) prepared by WaterSolve.

Also, can you please confirm whether this information about the proposed new chemicals has been provided to the Forest Service and DWQ.

Thanks again,
Kevin

Kevin Lundmark
Environmental Scientist II
Division of Oil, Gas & Mining
kevinlundmark@utah.gov
(801)538-5352

>>> Daron Haddock 1/31/2011 10:34 AM >>>
Forwarded FYI--

>>> "Marrelli, Dana" <dmarrelli@coalsource.com> 1/26/2011 10:04 AM >>>
Hello,

After doing bench tests with multiple chemicals, WaterSolve has recommended the following chemicals to be used at Crandall Canyon, which we intend to try. Please see the enclosed MSDS Sheets for the Iron based WaterSolve Coagulant (Solve 3) and the WaterSolve Flocculant (Solve 151). Both chemicals are NSF60 certified.

WaterSolve offers a coagulant with an NSF60 rating of 250 and a flocculant with an NSF60 rating of 3.5, more than tripling the Nalco flocculant rating which we are presently using. The WaterSolve Iron based coagulant would also eliminate the Aluminum issue.

Flocculant:	Nalco 7763	1.0 ppm	WaterSolve 151	3.5 ppm
Coagulant:	Nalco 8187	180 ppm	WaterSolve 3	250 ppm

Thank you,

Dana Marrelli
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