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*Incinerator  
4/10/07/0038*

**From:** "Ware, Dennis (WC) 4737" <dware@foundationcoal.com>  
**To:** "Jeffrey Studenka" <jstudenka@utah.gov>  
**Date:** 4/9/2007 2:21 PM  
**Subject:** RE: Crandall Canyon Water Analysis  
**Attachments:** Temp Mod UPDES Permit Crandall Canyon Shaft.pdf; Crandall Water Analysis M arch 28 07 Sample.pdf

Jeff,

Thanks for you input and support on this project. I have attached a pdf copy of the signed request for modification as well a pdf copy of the water sample analysis results. I have yet to receive the total sodium result form SGS Minerals Lab. I spoke with SGS today and they said their machine has been broken and should be fixed today. I will wait until tomorrow to put the original letter request in the mail in hopes that the sodium result will be in.

Thanks Again,

Dennis

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From: Jeffrey Studenka [mailto:jstudenka@utah.gov]  
 Sent: Monday, April 09, 2007 11:09 AM  
 To: Ware, Dennis (WC) 4737  
 Subject: RE: Crandall Canyon Water Analysis

Overall it looks good. I would like to request that you add a brief sentence or two regarding the existing water quality and the fact that no further treatment is anticipated at this time due to the previous sampling and analysis reviews. I will await your official letter request and have everything ready to go at my end for this modification. Thanks and good luck. I hope to be able to come down during the discharging event so keep me posted...Jeff

>>> "Ware, Dennis (WC) 4737" <dware@foundationcoal.com> 4/9/2007 10:54 AM >>>

Jeff,

I have attached a "draft" copy of Plateau's request for a Temporary Modification to our UPDES Permit to allow for the discharge of water from the No. 2 shaft in Crandall Canyon. Please review this draft and inform me of any changes you feel would be necessary or helpful to move this process forward.

Thanks,

Dennis Ware

435-472-4737

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From: Jeffrey Studenka [mailto:jstudenka@utah.gov]  
Sent: Tuesday, April 03, 2007 10:27 AM  
To: Ware, Dennis (WC) 4737  
Cc: Jeff\_McKenzie@blm.gov; Borla, W. John (BE) 3406; Greene, Johnnie (PS) 5949; David Darby; Pete Hess; Wayne Hedberg  
Subject: Re: Crandall Canyon Water Analysis

Dennis,

First of all, thank you for including all of the extra parameters in this sample analysis. I have reviewed the data and at this time, I am satisfied that the quality of water is such that no additional parameters are necessary to be included in your UPDES Permit for the upcoming discharge event. I will look to receive your modification request per our last meeting and your e-mail. The sampling parameters for your UPDES Permit No. UTG040012 currently include pH, TSS, TDS, Iron, Oil & Grease, and a Flow measurement along with the visual observation requirements. Keep in mind that TDS is limited to 1 ton/day. With the TDS concentrations around 1050 mg/L, that leaves you with about 225,000 gal/day for a maximum discharge quantity (assuming the concentrations during sampling remain consistent).

I appreciate everyone's efforts thus far and please contact me if anyone has any questions or comments.

Thank you,

Jeff Studenka  
Environmental Scientist  
UPDES Permits IES Section  
Division of Water Quality

Utah Dept. of Environmental Quality  
288 North 1460 West  
PO Box 144870  
Salt Lake City, UT 84114-4870  
phone (801)-538-6779  
fax (801) 538-6016  
jstudenka@utah.gov

>>> "Ware, Dennis (WC) 4737" <dware@foundationcoal.com> 4/3/2007 8:57 AM >>>

Gentlemen,

I have attached the water quality data on a sample of the water taken from the Crandall Canyon shaft on March 28th. The total sodium is being rerun and I will forward this information when received. Please look at the data and provide me with any comments you may have. Jeff, the request for a temporary modification of the UPDES permit to allow for the discharge of this water will follow within the next few days.

Regards,

Dennis Ware

435-472-4737



**PLATEAU MINING CORPORATION**

P.O. Box 30  
Helper, UT 84526

April 9, 2007

Mr. Jeff Studenka  
State of Utah  
Department of Environmental Quality  
Division of Water Quality  
288 North 1460 West  
P.O. Box 144870  
Salt Lake City, Utah 84114-4870

**Re: Temporary Modification of UPDES Permit No. UTG040012 to allow for the discharge of approximately 1 million gallons of water from the Crandall Canyon No. 2 Shaft**

Dear Mr. Studenka:

Plateau Mining Corporation (Plateau) is hereby submitting a request for a temporary modification for discharge under the Willow Creek Mine UPDES permit No. UTG040012 to allow for the discharge of approximately one million gallons (1,000,000) of water from the #2 shaft in Crandall Canyon. This water will be discharged into the rip-rap lined stream bed in Crandall Canyon and will eventually flow to the Price River approximately 1 ¼ miles downstream of the discharge point.

This temporary outfall is located in Crandall Canyon (Carbon County Utah) at Latitude 39 45 06 Longitude 110 54 48.

The water will be pumped from the No. 2 (return air) shaft in Crandall Canyon through a 3" hose which will discharge into the Crandall Canyon drainage at the location provided above. A 40 HP submersible well pump will be used. This 40 HP pump has the capacity to pump 225 gallons per minute or 324,000 per day, however, due to the daily TDS discharge limitation of 1 ton/day, the initial the daily volume will be limited to 200,000 gallons.

On March 28<sup>th</sup> 2007 a sample of the water in the shaft was taken and analyzed for pH, TSS, TDS, Iron, and Oil & Grease as required by Plateau's UPDES permit. Additionally, at the request of the Division of Water Quality and the Division of Oil, Gas and Mining, this water sample was also tested for a number of other parameters (see the attached

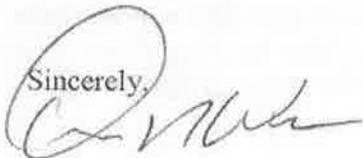
sample analysis report). Based on the results of this water sample no further treatment is anticipated.

Based on the TDS value of 1050 mg/L taken from the March 28<sup>th</sup> 2007 sample, pumping will initially be limited to 200,000 gallons per day which allows for an 11% safety factor. This pumping rate may be adjusted up or down based on the TDS determined from the samples taken just before and after pumping begins. At the 200,000 gallon/per/day pumping rate it is estimated that it will require five days to finish the pumping. A flow meter will be installed on the discharge line to accurately measure the quantity of water pumped. Once the water has been pumped down to the point where water is expected to be inflowing into the shaft (estimated to be approximately 90 feet below the surface evaluation) the inflow volume can be estimated and a better determination of the total quantity of water to be pumped will be made.

Water samples will be taken the day before pumping begins, during the first hour of pumping and any time the visual quality of the water changes during the pumping process. A sample will also be taken if this project crosses over into the next month. Each sample will be tested for pH, TSS, TDS, Iron, and Oil & Grease.

The exact date and time that pumping will begin depends on when the requested temporary modification is issued. Once the temporary modification is issued the contractor will require several days to prepare the site for pumping. Plateau will notify Division of Water Quality, the Division of Oil Gas and Mining and the BLM at least 24 hours before pumping begins.

Sincerely,



Dennis N. Ware  
Controller and Administrative Manager

Enclosures

cc: Pamela Grubaugh-Littig, UDOGM, SLC Office



April 2, 2007

PLATEAU MINING  
P.O. BOX 30  
HELPER UTAH 84526  
DENNIS WARE

Sample identification by  
Star Point

ID: Crandall Canyon #2 Shaft

Kind of sample Water  
reported to us

RECEIVED 1340  
SAMPLED 1048  
SNOWING, POSSIBLE MATRIX INTERFERENCE  
ON ALKALINITY  
DIS. METALS  
FILTERED @ LAB

Sample taken at Star Point

Sample taken by D. Ware

Page 1 of 2

Date sampled March 28, 2007

Date received March 28, 2007

Analysis report no. 59-29823

Parameter	Result	MPL	Units	Method	Analyzed	
					Date/Time/Analyst	
Alkalinity, Bicarbonate	339	5	mg/l as CaCO <sub>3</sub>	SM 2320 B	03-29-2007 0900	GF
Alkalinity, Carbonate	<5	5	mg/l as CaCO <sub>3</sub>	SM 2320 B	03-29-2007 0900	GF
Alkalinity, Total	339	5	mg/l as CaCO <sub>3</sub>	SM 2320 B	03-29-2007 0900	GF
Aluminum, Total	0.35	0.030	mg/l	EPA 200.7	03-30-2007 1945	DI
Aluminum, Dissolved	<0.03	0.030	mg/l	EPA 200.7	03-29-2007 1223	DI
Barium, Total	0.146	0.002	mg/l	EPA 200.7	03-30-2007 1945	DI
Barium, Dissolved	0.115	0.002	mg/l	EPA 200.7	03-29-2007 1223	DI
Calcium, Total	158.00	0.03	mg/l	EPA 200.7	03-30-2007 1945	DI
Calcium, Dissolved	143.00	0.03	mg/l	EPA 200.7	03-29-2007 1223	DI
Chloride	5	1	mg/l	EPA 300.0	03-28-2007 2320	BM
Chromium, Total	<0.001	0.001	mg/l	EPA 200.7	03-30-2007 1945	DI
Chromium, Dissolved	<0.001	0.001	mg/l	EPA 200.7	03-29-2007 1223	DI
Copper, Total	<0.01	0.010	mg/l	EPA 200.7	03-30-2007 1945	DI
Copper, Dissolved	<0.01	0.010	mg/l	EPA 200.7	03-29-2007 1223	DI
Iron, Total	0.19	0.050	mg/l	EPA 200.7	03-30-2007 1945	DI
Iron, Dissolved	<0.03	0.030	mg/l	EPA 200.7	03-29-2007 1223	DI
Magnesium, Total	69.30	0.01	mg/l	EPA 200.7	03-30-2007 1945	DI
Magnesium, Dissolved	63.50	0.01	mg/l	EPA 200.7	03-29-2007 1223	DI
Oil & Grease	<2	2	mg/l	EPA 413.1	03-30-2007 0900	DI
pH	7.52	----	pH units	EPA 150.1	03-28-2007 1405	GF
pH Sample Temp.	12.9	----	Deg C	EPA 150.1	03-28-2007 1405	GF
Phosphorous, Total	0.05	0.05	mg/l as P	SM4500-P-B,E	03-30-2007 0900	BM
Potassium, Total	16.60	0.14	mg/l	EPA 200.7	03-30-2007 1945	DI
Potassium, Dissolved	16.60	0.14	mg/l	EPA 200.7	03-29-2007 1223	DI

Respectfully submitted,  
SGS NORTH AMERICA INC.

Huntington Laboratory

INCOMPLETE REPORT



April 2, 2007

PLATEAU MINING  
P.O. BOX 30  
HELPER UTAH 84526  
DENNIS WARE

Sample identification by  
Star Point

ID: Crandall Canyon #2 Shaft

Kind of sample Water  
reported to us

RECEIVED 1340  
SAMPLED 1048  
SNOWING, POSSIBLE MATRIX INTERFERENCE  
ON ALKALINITY  
DIS-METALS  
FILTERED @ LAB

Sample taken at Star Point

Sample taken by D. Ware

Date sampled March 28, 2007

Page 2 of 2

Date received March 28, 2007

Analysis report no. 59-29823

Parameter	Result	MRL	Units	Method	Analyzed	
					Date/Time	Analyst
Sodium, Total	xxxxx	0.09	mg/l	EPA 200.7	-	-
Sodium, Dissolved	79.20	0.09	mg/l	EPA 200.7	03-29-2007 1223	DI
Solids, Settleable	<0.1	0.1	ml/l	EPA 160.5	03-28-2007 1500	BM
Solids, Total Dissolved	1014	30	mg/l	EPA 160.1	03-30-2007 1330	GF
Solids, Total Suspended	15	5	mg/l	EPA 160.2	03-30-2007 1330	GF
Sulfate	83	1	mg/l	EPA 300.0	03-28-2007 2320	BM
Turbidity	10.0	0.1	NTU	EPA 180.1	03-28-2007 1600	BM

Respectfully submitted,  
SGS NORTH AMERICA INC.

Huntington Laboratory

INCOMPLETE REPORT