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c/o 15/0032
JK

From: "Karla Knoop" <kknoop@jbrenv.com>
To: "Shaver, Dave" <dshaver@coalsource.com>, "Jeffrey Studenka" <jstuden...>
Date: 2/1/2008 8:17 AM
Subject: Crandall mine water discharge - lab report for Jan 28 sample
Attachments: crandall 002 Jan 28 08.pdf

All,

As Dave Shaver is out of his office today, he asked me to send the attached Crandall Canyon mine water discharge laboratory results. The sample was taken on Monday, January 28th, from the pipe that is now collecting all of the mine water prior to its discharge to Crandall Creek. We will repeat the sample collection and analysis this coming Monday, February 4th.

Regards,

Karla Knoop, Hydrologist

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General Offices: P.O. Box 995 Price, UT. 84501 (435)637-8855
 Laboratory: 65 North 300 East Price, UT. 84501

Report Date
 1/31/2008

Client
 UtahAmerican Energy Inc.
 Genwal Resources, Inc.
 PO Box 1077
 Price, UT. 84501
 Dave Shaver
 (435)888-4017

Sample I.D.
 002
Sampled By: KDK
Date: 1/28/2008 Time: 14:05
Received
Date: 1/28/2008 Time: 15:40

| Field Measurements | | | | |
|--------------------|---------|-----|----------|---------------|
| Cond. uS | Temp. C | pH | D.O. ppm | Turbidity NTU |
| 1507 | 7.0 | 7.9 | 9.3 | |

Notes:

Lab I.D. #: 546 Mine Code 08 Site Code 40

Certificate of Analysis

| Analyte | Results | Units | MRL | Method | Date | Time | Analyst |
|-----------------------------|---------|-------|-------|-----------|-----------|-------|---------|
| <u>Wet Chem.</u> | | | | | | | |
| Oil & Grease | <5 | mg/L | 5 | EPA 413.1 | 1/29/2008 | 9:23 | SB |
| Solids, Total Dissolved | 1108 | mg/L | 20 | EPA 160.1 | 1/29/2008 | 10:42 | SB |
| Solids, Total Suspended | 12 | mg/L | 4 | EPA 160.2 | 1/29/2008 | 10:42 | SB |
| <u>Metals by ICP</u> | | | | | | | |
| Aluminum, Dissolved | 0.06 | mg/L | 0.01 | EPA 200.7 | 1/29/2008 | 13:06 | SB |
| Aluminum, Total | 0.32 | mg/L | 0.01 | EPA 200.7 | 1/31/2008 | 13:44 | SB |
| Boron, Dissolved | 0.19 | mg/L | 0.05 | EPA 200.7 | 1/29/2008 | 13:06 | SB |
| Boron, Total | 0.19 | mg/L | 0.05 | EPA 200.7 | 1/30/2008 | 16:10 | SB |
| Iron, Dissolved | 0.034 | mg/L | 0.010 | EPA 200.7 | 1/29/2008 | 13:06 | SB |
| Iron, Total | 1.491 | mg/L | 0.010 | EPA 200.7 | 1/30/2008 | 16:10 | SB |
| Manganese, Dissolved | 0.121 | mg/L | 0.001 | EPA 200.7 | 1/29/2008 | 13:06 | SB |
| Manganese, Total | 0.122 | mg/L | 0.001 | EPA 200.7 | 1/30/2008 | 16:10 | SB |
| Nickel, Dissolved | 0.155 | mg/L | 0.002 | EPA 200.7 | 1/29/2008 | 13:06 | SB |
| Nickel, Total | 0.156 | mg/L | 0.002 | EPA 200.7 | 1/30/2008 | 16:10 | SB |
| Selenium, Dissolved | <0.01 | mg/L | 0.01 | EPA 200.7 | 1/29/2008 | 13:06 | SB |
| Selenium, Total | <0.01 | mg/L | 0.01 | EPA 200.7 | 1/30/2008 | 16:10 | SB |
| Zinc, Dissolved | 0.282 | mg/L | 0.005 | EPA 200.7 | 1/29/2008 | 13:06 | SB |
| Zinc, Total | 0.302 | mg/L | 0.005 | EPA 200.7 | 1/30/2008 | 16:10 | SB |

Brandon Pierce
 Technical Director

All reported results meet the requirements of NELAC, except for Balance and Hardness.
 Balance and Hardness are calculated from certified results.