

0042

*OK Incoming  
c/015/0032*

**From:** "Karla Knoop" <kknoop@jbrenv.com>  
**To:** "Shaver, Dave" <dshaver@coalsource.com>, "Jeffrey Studenka" <jstuden...  
**Date:** 4/23/2008 10:02 AM  
**Subject:** Crandall mine water discharge - lab report for April 15 sample and trend/compliance information  
**Attachments:** Crandall 002 April 15.pdf; Crandall 2008 wq trends.xls; Crandall 2008 UPDES compliance.xls

All,

Please see attached Crandall Canyon mine water discharge laboratory results for the sample taken Tuesday, April 15th. Excel files showing trends and UPDES permit compliance are also attached.

A question was raised about the rate of discharge: based upon the in-line totalize and instantaneous meter, flow rate does not appear to be decreasing; it is holding at between about 600-700 gallons per minute.

Regards,

Karla Knoop, Hydrologist

jbr Environmental Consultants, Inc.

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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

**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:** 4/15/2008  
**Time:** 10:40

**Received**  
**Date:** 4/15/2008  
**Time:** 11:49

Field Measurements				
Cond. uS	Temp. C	pH	D.O. ppm	Turbidity NTU
1248	11.8	7.71	10.2	

**Notes:**  
 Incomplete Report.

Lab I.D. #: 597      Mine Code 08      Site Code 40

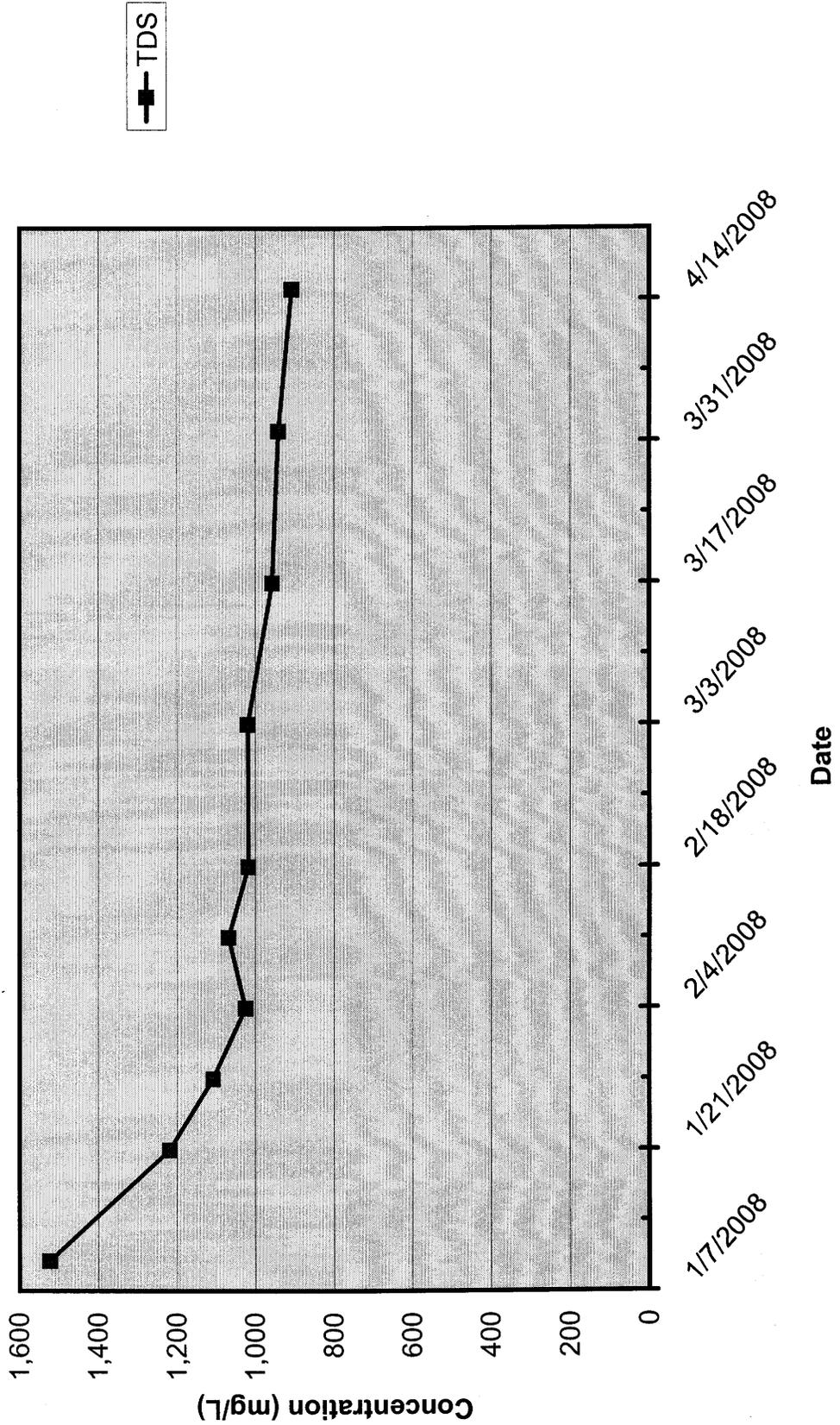
**Certificate of Analysis**

Analyte	Results	Units	MRL	Method	Date	Time	Analyst
<b>Wet Chem.</b>							
Oil & Grease	N/A	mg/L	5	EPA 413.1			
Solids, Total Dissolved	908	mg/L	20	EPA 160.1	4/16/2008	7:15	BLP
Solids, Total Suspended	<4	mg/L	4	EPA 160.2	4/16/2008	7:15	BLP
<b>Metals by ICP</b>							
Aluminum, Dissolved	0.14	mg/L	0.02	EPA 200.7	4/16/2008	14:04	SB
Iron, Dissolved	0.019	mg/L	0.010	EPA 200.7	4/16/2008	14:04	SB
Iron, Total	0.491	mg/L	0.010	EPA 200.7	4/17/2008	12:01	SB
Nickel, Dissolved	0.081	mg/L	0.003	EPA 200.7	4/16/2008	14:04	SB
Zinc, Dissolved	0.127	mg/L	0.005	EPA 200.7	4/16/2008	14:04	SB

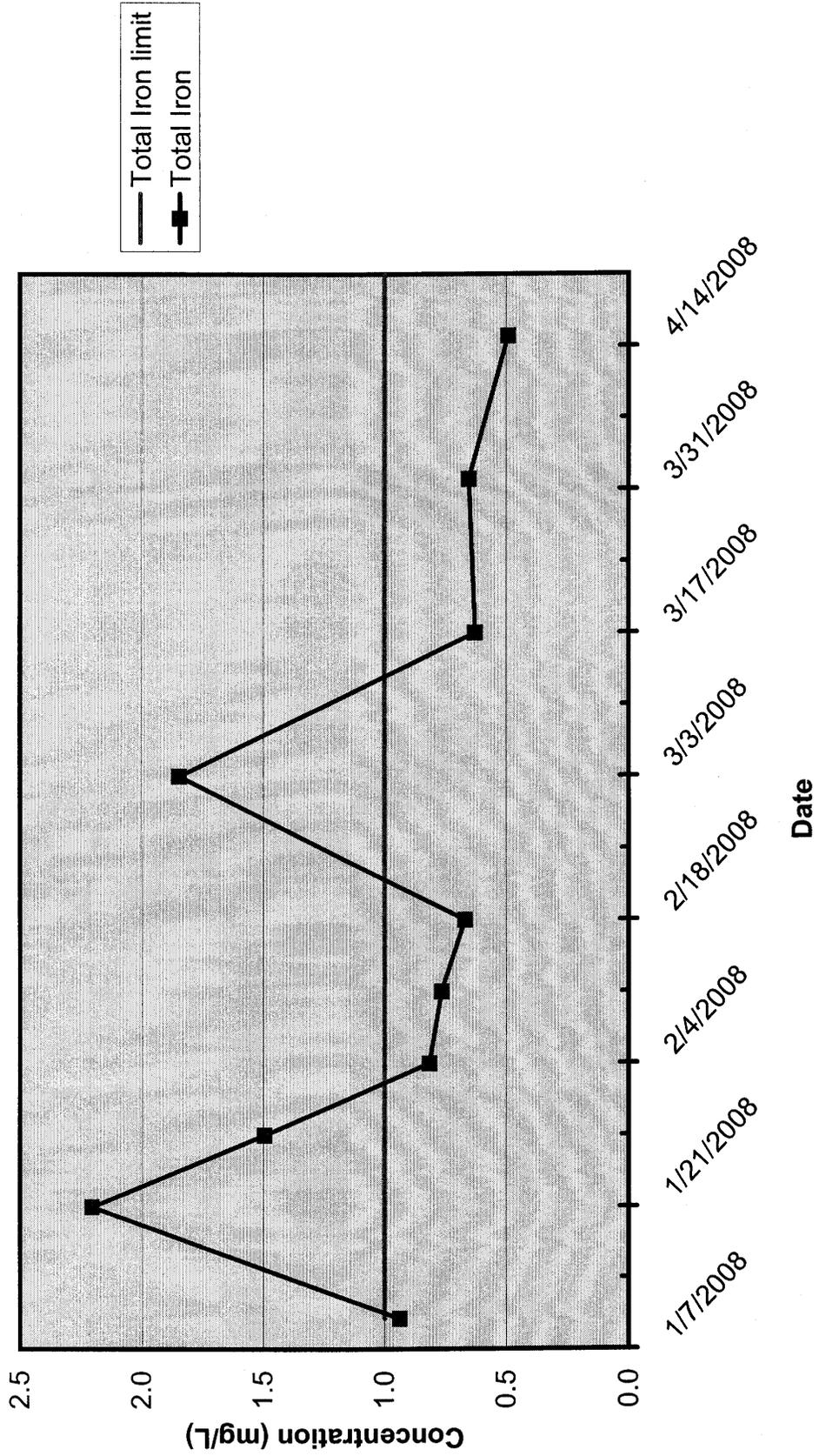
Brandon Pierce  
 Technical Director

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

# Crandall Canyon Mine Discharge (Outfall 002) TDS Trend



# Crandall Canyon Mine Discharge (Outfall 002) Reported Total Iron and Daily Max Permit Limit



**From:** "Marshall, Jay" <jmarshall@coalsource.com>  
**To:** "Pete Hess" <petehess@utah.gov>  
**Date:** 4/23/2008 10:24 AM  
**Subject:** RE: Lila Canyon / Permit area "B"

Spring and Seep has been completed. Still no access on top but we have ordered the crest gages and siphon samplers. Other than that we are just watching the eagles.

-----Original Message-----

**From:** Pete Hess [mailto:petehess@utah.gov]  
**Sent:** Wednesday, April 23, 2008 10:22 AM  
**To:** Marshall, Jay  
**Subject:** Lila Canyon / Permit area "B"

Jay....

Was just wondering what is going on at the Mine site...

Have you conducted the spring and seep survey ?

Any progress on the other six crest gages and siphon samplers in Little Park ?

Thanks, Jay.