

# WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

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January 12, 2009

TO: Internal File

THRU: Daron R. Haddock, Permit Supervisor *DRH*

FROM: James D. Smith, Environmental Scientist III *JDS*

RE: 2008 Second Quarter Water Monitoring, PacifiCorp, Deer Creek Mine. C/015/0018, Recurring Task ID #2711

The Deer Creek Mine monitoring plan is described in Appendix A of Volume 9 of the MRP.

**1. Were data submitted for all of the MRP required sites?**

**Springs** YES  NO

NEWUA Meter 2 was not accessible during the second quarter 2008.

**Streams** YES  NO

**Wells** YES  NO

**UPDES** YES  NO

**In-mine** YES  NO

**2. Were all required parameters reported for each site?**

**Springs** YES  NO

**Streams** YES  NO

**Wells** YES  NO

**UPDES** YES  NO   
**In-mine** YES  NO

**3. Were any irregularities found in the data?**

Listed parameters were outside two standard deviations. An asterisk (\*) indicates this is not a parameter specifically required by the MRP.

**Springs** YES  NO   
NEWUA Meter 3 June: bicarbonate as CaCO<sub>3</sub>;

**Streams** YES  NO   
DCR04 June: bicarbonate as CaCO<sub>3</sub>;  
HCC02 June: cation-anion percent difference;  
HCC04 June: bicarbonate as CaCO<sub>3</sub>;  
RCF1 June: bicarbonate as CaCO<sub>3</sub>;  
RCF2 June: flow;  
RCF3 June: lab pH\*, bicarbonate as CaCO<sub>3</sub>, total alkalinity\*, and cation-anion percent difference;  
RCLF1 May and June: flow;  
RCLF2 May and June: flow;  
RCW4 June: bicarbonate as CaCO<sub>3</sub> and total alkalinity\*;  
MF-A June: SO<sub>4</sub> and total alkalinity;  
MF-B June: bicarbonate as CaCO<sub>3</sub> and total alkalinity\*;

**Wells** YES  NO   
DCWR1 June: bicarbonate as CaCO<sub>3</sub> and acidity\*.

**UPDES** YES  NO   
UT0023604-001 May: lab pH\*;  
UT0023604-002 April: bicarbonate as CaCO<sub>3</sub>.

**In-mine** YES  NO   
TW-10 June: acidity\*

**4. On what date does the MRP require a five-year resampling of baseline water data.**

Baseline analyses were performed in 2001 and are to be repeated every 5 years;

baseline analyses were done in 2006 and should be done again in 2011: renewal submittal due 10/07/10, renewal due 02/07/11.

**5. Based on your review, what further actions, if any, do you recommend?**

Most of the CaCO<sub>3</sub> and alkalinity values that were more than two standard-deviations from the mean were below the mean. There is no further action to be recommended at this time.

**6. Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements?** YES  NO

**7. Follow-up from last quarter, if necessary.**

None.

**8. Did the Mine Operator submit all the missing and/or irregular data (datum)?**

Yes.