

# WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

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January 16, 2007

*JK*

TO: Internal File

THRU: D. Wayne Hedberg, Permit Supervisor *DWH*

FROM: James D. Smith, Environmental Scientist *JS 01/18/07*

RE: 2006 Third Quarter Water Monitoring, PacifiCorp, Trail Mountain Mine,  
~~C/007/0033~~, Task ID #2713  
*(0150009)*

The Trail Mountain Mine is currently idle. The monitoring plan is described in Appendix A of Volume 9 of the MRP.

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

**In-mine** YES  NO

The mine is sealed, so other than the Oliphant portal discharge (18-1-1 or T-18), which is monitored as a spring, there is no monitoring of underground or in-mine water at this site.

**Springs** YES  NO

**Streams** YES  NO

**UPDES** YES  NO

DMRs were submitted in electronic format (Adobe). There was no discharge from either UPDES point during the third quarter 2006. The mine was sealed in June 2001 and there has been no reported discharge from UPDES UT23728-002 (the mine water discharge into Cottonwood Creek) since May 2001.

**Wells** YES  NO

Since July 2004, the water level in TM-3 has been reported as head above the casing elevation, determined from pressure measured by a gauge on the sealed wellhead.

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

<b>Springs</b>	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
<b>Streams</b>	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
<b>UPDES</b>	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
<b>Wells</b>	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

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

Listed parameters were outside two standard deviations: " n" is the number of values used to calculate the standard deviation in the Division's database. An asterisk (\*) indicates this is not a parameter required by the MRP.

<b>Springs</b>	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
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18-2-1 July: Ca (n = 13), Mg (n = 13), and total hardness (n = 39).  
17-22-1 July: Ca (n = 20).

<b>Streams</b>	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
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SW-3: field conductivity (n = 125), Cl (n = 108), lab conductivity\* (n = 76), and TDS (n = 108).

<b>UPDES</b>	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
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<b>Wells</b>	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
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TM-1B: Bicarbonate Ca CO3 (n = 8).

In TM-3, water elevation peaked in June 2005, remained steady through October, dropped markedly between November and December 2005, and has been steady since. See chart below.

Water elevation in TM-1B started increasing in 2002, peaked in May 2006, and has been declining. See chart below.

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

Renewal submittal due 10/21/04, renewal due 02/21/05. Baseline analyses were performed in 2001 and will be repeated every 5 years, i.e., the next baseline analyses will be in 2006.

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

At least one set of water samples, preferably collected at low flow, should be analyzed for 5-year baseline parameters.

**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)?**

NA

