

WATER QUALITY MEMORANDUM

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Utah Coal Regulatory Program

March 28, 2008

TO: Internal File

FROM: James D. Smith, Environmental Scientist *JS 05/09/08*

RE: 2007 Fourth Quarter Water Monitoring, PacifiCorp, Cottonwood/Wilberg Mine, C/015/0019, Task ID #2710

The Cottonwood/Wilberg Mine monitoring plan is described in Appendix A of Volume 9 of the MRP.

There are no springs monitored at this site. The mine was sealed May 10, 2001, so in-mine monitoring sites TMA @ 32 and 2nd S XC-11 are no longer accessible. WCWR1 at the Waste Rock Site is the only well monitored. The pond at the Cottonwood Fan Portal was reclaimed in 2002 so UPDES 22896-002 is no longer reported to DOGM or the Division of Water Quality.

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

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

DMRs were submitted in electronic format (Adobe). DMR data were submitted to the DOGM database as operational parameters, not as DMR parameters.

2. Were all required parameters reported for each site?

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

UPDES

YES NO

3. Were any irregularities found in the data?

Listed parameters were outside two standard deviations.

Streams

YES NO

Wells

YES NO

WCWR1: acidity (not a required parameter)

UPDES

YES NO

22896-001 (WMD01) October: bicarbonate as CaCO₃,
22896-001 (WMD01) November: bicarbonate as CaCO₃,
22896-001 (WMD01) December: bicarbonate as CaCO₃,

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

The next renewal submittal is due 03/06/09 for renewal on 07/06/09. Baseline analyses were performed in 2001 and 2006 and the next baseline analyses will be in 2011.

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

At 22896-001 (WMD01) bicarbonate as CaCO₃ was outside two standard deviations from the mean for 7 out of 12 months in 2006, including all 6 months of the 3rd and 4th Quarters, and for every month in 2007 except for July. However, values are not extreme and the cation - anion balance is within acceptable limits, so no further action is recommended at this time. See chart below.

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 missing and/or irregular data?

NA

