

0001

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

January 22, 2007

JK

TO: Internal File

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

FROM: James D. Smith, Environmental Scientist *JS 01/22/07*

RE: 2006 Third 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. WCWR1 at the Waste Rock Site is the only well monitored. The mine was sealed May 10, 2001, so in-mine monitoring sites TMA @ 32 and 2nd S XC-11 are no longer accessible. 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 NO

Wells YES NO

UPDES YES NO

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.

Streams YES NO

GWR-03: K (n = 39).

Wells YES NO

WCWR1: bicarbonate as CaCO₃ (n = 8).

UPDES YES NO

22896-001 (WMD01) July: bicarbonate as CaCO₃ (n = 26).

22896-001 (WMD01) August: bicarbonate as CaCO₃ (n = 26).

22896-001 (WMD01) September: bicarbonate as CaCO₃ (n = 26).

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 will be repeated every 5 years, i.e., the next baseline analyses will be in 2006. As shown in the following table, the Permittee is

collecting quarterly baseline data at the required sites.

| Fifth-year Baseline Monitoring | | | |
|--------------------------------|---------------------------|---------------------------|---------------------------|
| Monitoring Site | 1 st Qtr. 2006 | 2 nd Qtr. 2006 | 3 rd Qtr. 2006 |
| WCWR1 | Yes | Yes | Yes |
| GWR01 | No Flow | No Flow | No Flow |
| GWR02 | No Flow | Yes | Yes |
| GWR03 | No Flow | Yes | Yes |
| CCC1 | Field Parameters Only | | |
| UPDES-001 | Not Required | Not Required | Not Required |
| UODES-003 | Not Required | Not Required | Not Required |
| UPDES-004 | Not Required | Not Required | Not Required |
| UPDES-005 | Not Required | Not Required | Not Required |

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

None.

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