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WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

April 8, 2010

TO: Internal File

THRU: Daron Haddock, Permit Supervisor *RDH*

FROM: James D. Smith, Environmental Scientist *JDS 12 Apr 2010*

RE: 2009 Fourth Quarter Water Monitoring, PacifiCorp, Cottonwood/Wilberg Mine, C/015/0019, Task ID #3427

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 NO

For October and November, only flow is to be reported for CCC1 in Cottonwood Canyon and GWR01, GWR02, and GWR03 in Grimes Wash. In December, field parameters are to be reported for CCC1 and operational parameters for the three sites in Grimes Wash. For the 4th Quarter 2009, flow was measured at GWR03 in October and November, and all other monitoring events were reported as no-flow.

Wells YES NO

WCWR1 at the Waste Rock Site is the only well monitored: it is monitored once a quarter for operational parameters.

UPDES YES NO

DMRs are submitted in electronic format (Adobe): DMR data are submitted to the DOGM database as operational parameters, not as DMR parameters. During the 4th Quarter 2009, there was discharge all three months at outfall 22896-001 and no discharge at outfalls 22896-003, 22896-004, and 22896-005.

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 <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

3. Were any irregularities found in the data?

Listed parameters were outside two standard deviations.

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

WCWR1 December: cation-anion percent difference.

UPDES	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
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4. On what date does the MRP require a five-year resampling of baseline water data.

The Division received the permit renewal submittal on 03/09//09, for renewal on 07/06/09. Baseline analyses were performed in 2001 and 2006 and the next five-year baseline analyses will be in 2011.

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

No further action is required 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 missing and/or irregular data?

NA