



State of Utah
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS AND MINING

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July 1, 2002

TO: Internal File

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

FROM: James D. Smith, Senior Reclamation Specialist *JDS*

RE: 2001 First Quarter Water Monitoring, PacifiCorp, Cottonwood / Wilberg Mine, C/015/019-WQ01-1

1. Were data submitted for all of the MRP required sites? YES [X] NO []
Identify sites not monitored and reason why, if known:

GRW01: no flow reported during quarter;

GWR02: no flow reported during quarter;

2. On what date does the MRP require a five-year resampling of baseline water data.
See Technical Directive 004 for baseline resampling requirements. Consider the five-year baseline resubmittal when responding to question one above. Indicate if the MRP does not have such a requirement.

Resampling Due Date

Renewal submittal due 3/06/04, renewal due 7/06/04. Baseline analyses were performed in 1996 and 2001 and will be repeated every 5 years, i.e., next baseline analyses will be in 2006.

3. Were all required parameters reported for each site? YES [X] NO []
Comments, including identity of monitoring site:

4. Were irregularities found in the data? YES [X] NO []
Comments, including identity of monitoring site:

WCWR1: depth (n = 41) was outside the two standard deviation range; As (n = 2, 4 non-detects) was detected above the MDL;

UPDES 0022896-001A - January (monthly operational): bicarbonate (n = 7), Cl (n = 7), K (n = 7), Mg (n = 7), Na (n = 7), sulfate (n = 7), total alkalinity (n = 7), TDS (n = 7), and total hardness (n = 7) were outside two standard deviations;

UPDES 0022896-001A - February (monthly operational): field water temperature (n = 7), K (n = 7), Mg (n = 7), Na (n = 7), lab specific conductivity (not a required parameter, n = 7), sulfate (n = 7), total alkalinity (n = 7), TDS (n = 7), and total hardness (n = 7) were outside two standard deviations;

UPDES 0022896-001A - March (monthly operational): Cl (n = 7), K (n = 7), Na (n = 7), sulfate (n = 7), total alkalinity (n = 7), TDS (n = 7), and total hardness (n = 7) were outside two standard deviations;

5. Were DMR forms submitted for all required sites?

1st month, YES [X] NO []

2nd month, YES [X] NO []

Identify sites and months not monitored:

3rd month, YES [X] NO []

UTG0022896-002, -004, and 005: no discharge during quarter.

6. Were all required DMR parameters reported?

YES [X] NO []

Comments, including identity of monitoring site:

7. Were irregularities found in the DMR data?

YES [] NO [X]

Comments, including identity of monitoring site:

UTG0022896-001: DMR values are not in the database.

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

Numerous values were outside the two standard deviation range, but the sample size is usually small, and none of the values are extreme. Recommended action is to watch for trends.