0026

Ok

cc: Steve

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

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

July 18, 2001

TO: Internal File

THRU: Daron R. Haddock, Permit Supervisor DRH

FROM: James D. Smith, Senior Reclamation Specialist JDS

RE: 2000 Third Quarter Water Monitoring, PacifiCorp, Cottonwood / Wilberg Mine, C/015/019-WQ00-3

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

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 will be repeated every 5 years, i.e., next baseline analyses will be in 2001.

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

   July (monthly operational) - UPDES 0022896-001A: Field Water Temperature, Specific Conductivity, and pH were not reported;
   July (monthly operational) - UPDES 0022896-003A: Field Water Temperature, Specific Conductivity, and pH were not reported;

4. Were irregularities found in the data? YES [X] NO [ ]

Comments, including identity of monitoring site:

CCC01: Field Specific Conductivity (number of samples in database, n = 74) is outside two standard deviation range;
GWR02: Acidity (n = 0), Na (n = 6), and Field Water Temp (n = 55) are outside two standard deviations and exceed the maximum recorded in APPX database;
GWR03: Acidity (n = 2) is outside two standard deviations and exceeds the maximum recorded in APPX database;
TMA XC-32-33 #3: sampled on October 3; Acidity (n = 7) is outside two standard deviations and exceeds the maximum recorded in APPX database; Ca (n = 18), Total Cations (n = 24), and Total Hardness (n = 26) are outside two standard deviations and below the minimum recorded in APPX database; Mg (n = 18) is (barely) outside two standard deviations;
2ND S XC-11: sampled on October 3; Acidity (n = 6) is outside two standard deviations and exceeds the maximum recorded in APPX database; Cation-anion Balance is -5.1 %;
September (monthly operational) - UPDES 0022896-001A: Acidity (n = 3) is outside two standard deviations and exceeds the maximum recorded in APPX database;
September (monthly operational) - UPDES 0022896-003A: Acidity (n = 0) is outside two standard deviations and exceeds the maximum recorded in APPX database;
WCWR1: Acidity (n = 1) is outside two standard deviations and exceeds the maximum recorded in APPX database;

5. Were DMR forms submitted for all required sites?

1st month, YES [X] NO [ ]
2nd month, YES [X] NO [ ]
3rd month, YES [X] NO [ ]

Identify sites and months not monitored:

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

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 [X] NO [ ]

Comments, including identity of monitoring site:

At 001A:

Reported Average TDS (n = 151) and Maximum TDS (n = 150) for July are outside two standard deviation range and below the minimum value recorded in the APPX database. The lab report sheet shows 901 mg/L, so the 9.01 on the DMR is apparently due to a misplaced decimal

and should be 901 mg/L. Dennis Oakley was contacted and confirmed this should be 901 mg/L (July 19, 2001 e-mail).

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

High values for acidity in many of these samples are atypical - this value is usually below the detection limit: these high acidity values are probably due to collection or lab procedures rather than to changes in water quality. **Acidity is not a required parameter for operational monitoring.** This will be monitored during following quarters to see if these high Acidity values persist.

Several other values were outside the two standard deviation range but none appear to be cause for concern.

O:\015019.CWW\WATER QUALITY\WQ_00-3.DOC