

0027



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

cc: steve

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 19, 2001

TO: Internal File  
THRU: Daron R. Haddock, Permit Supervisor *DRH*  
FROM: James D. Smith, Senior Reclamation Specialist *JDS*  
RE: 2000 Fourth Quarter Water Monitoring, PacifiCorp, Cottonwood / Wilberg Mine, C/015/019-WQ00-4

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 all quarter;  
GRW02: frozen in December when monitoring was done.

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:*

GWR03: Field Dissolved Oxygen not reported;  
TMA XC-32-33 #3: Field Specific Conductivity, and Field pH not reported;  
2ND S XC-11: Field Specific Conductivity, and Field pH not reported;  
December (monthly operational) - UPDES 0022896-001A: Lab pH not reported;  
December (monthly operational) - UPDES 0022896-003A: Lab pH not reported;

**4. Were irregularities found in the data?** YES  NO

*Comments, including identity of monitoring site:*

CCC01: Field Specific Conductivity (number of samples in database, n = 74) is outside two standard deviation range;  
TMA XC-32-33#3D: Ca (n = 18), Mg (n = 18), Total Cations (n = 24), Total Hardness (n = 26), and TDS (n = 26) are outside two standard deviation range;  
November (monthly operational) - UPDES 0022896-001A: Field Water Temperature (n = 208) is outside two standard deviations;  
December (monthly operational) - UPDES 0022896-001A: Field Water Temperature (n = 208) is outside two standard deviations;

**5. Were DMR forms submitted for all required sites?**

1<sup>st</sup> month, YES  NO   
2<sup>nd</sup> month, YES  NO   
3<sup>rd</sup> month, YES  NO

*Identify sites and months not monitored:*

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

**6. Were all required DMR parameters reported?** YES  NO

*Comments, including identity of monitoring site:*

**7. Were irregularities found in the DMR data?** YES  NO

*Comments, including identity of monitoring site:*

At 003A:

Maximum flow (n = 117) for December is outside two standard deviation range and below the minimum value recorded in the APPX database.

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

No action necessary: several values were outside the two standard deviation range but this does not appear to be cause for concern.