

# WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

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April 26, 2004

TO: Internal File

THRU: Daron Haddock, Permit Supervisor *DARH*

FROM: Steve Fluke, Reclamation Hydrogeologist *SFP*

RE: 2000, Third Quarter Water Monitoring, Genwal Resources, Inc.,  
Crandall Canyon Mine, C/015/0032-WQ00-3, Task ID #1314

1. Was data submitted for all of the MRP required sites? YES [ ] NO [ X ]

No data was submitted to the DOGM database for spring site SP1-3 for the first, third, and fourth quarters of 2000.

2. On what date does the MRP require a five-year resampling of baseline water data.

**Resampling due date.**

Sampling and analyses for baseline parameters (Tables 7-5 and 7-9 in the MRP) are to be performed during low-flow (fourth quarter) in 1990, 1995, 2000, and at five-year intervals thereafter until the surety bond is released. According to the data submitted to the DOGM database, a partial sampling and analyses of baseline parameters was last conducted during the second quarter of 1996.

3. Were all required parameters reported for each site? YES [ ] NO [ X ]

Indian Creek: no flow reported.

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

Well MW-6: reported bicarbonate concentration of 31 mg/L is above the two standard deviation range. This concentration appears to be an anomaly based on other reported analyses and is consistent with the low bicarbonate and high alkalinity concentrations historically reported for this well. The well has not been accessible since 2001.

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

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

DMR data is submitted to the DOGM database. No data was submitted for UPDES site 001. Data for UPDES site 002 was not submitted for the month of July.

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

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

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

Spring SP1-3: have data for the first, third, and fourth quarters for this site input to the database if available.

Indian Creek: have flow input to the database if available.

UPDES site 001: have DMR data for this site input to database if available. With the exception of March 2000, this site has no reported discharge through 2003. However, the database is missing data for the second, third, and fourth quarters for 2000.

UPDES site 002: have DMR data for the month of July for this site input to the database if available. With the exception of January 2002, DMR data for this site has been submitted to the database for every month through 2003.