

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

January 28, 2004

TO: Internal File

THRU: Daron Haddock, Permit Supervisor

FROM: Steve Fluke, Reclamation Hydrogeologist

RE: 2003, Second Quarter Water Monitoring, Genwal Resources, Inc.,
Crandall Canyon Mine, C/015/0032-WQ03-2, Task ID #1862

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

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

Resampling due date.

Analyses for parameters on the “extended” parameter lists (baseline) in the MRP were performed in 1990, 1995, 2000 and are to be done thereafter at five-year intervals – during low-flow (fourth quarter) – until surety bond is released: The next baseline analyses will be done in 2005.

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

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

Spring SP-58: sulfate and hardness were reported exceeding two standard deviations at 119 mg/L and 392 mg/L, respectively.

5. Were DMR forms submitted for all required sites?

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

DMR data is submitted to the DOGM database. No flow was reported for UPDES site 001 (discharge from the sediment pond to Crandall Creek). Reported data for UPDES site 002 is still in the database “pipeline” due to errors resulting from missing data in June, July, August, and September. The data will be released for download to the database at Gary Gray’s request.

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

Missing June oil and grease data for UPDES site 002.

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

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

Continue to monitor spring site SP-58 for trends in sulfate concentrations and hardness.

Gary Gray was not aware that the UPDES sites are to be analyzed for oil and grease on a monthly basis as stated in their permit. He has been analyzing for oil and grease on a quarterly basis or if a sheen is observed as specified in their original permit. Gary will begin analyzing for oil and grease on a monthly basis now that he is aware of the omission. Oil and grease concentrations have not exceeded the discharge limitation of 10 mg/L at this outfall in the past.