

# WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

OK

October 16, 2006

TO: Internal File

THRU: D. Wayne Hedberg, Permit Supervisor *DWH*

FROM: James D. Smith, Environmental Scientist *JS 10/16/06*

RE: 2006 Second Quarter Water Monitoring, CO-OP Mining Company, Bear Canyon Mine, C/015/0025, Task ID #2654

The monitoring plan is described in Section 7.2.5, including Tables 7.1-6, 7.1-7, 7.1-8, 7.1-9, 7.2-4, and 7.2-5 of the MRP.

**1. Were data submitted for all of the MRP required sites?**

**In-mine** YES  NO

SBC-11 has not been not accessible since early January 2003 because of a roof fall in the Hiawatha workings of Mine #1. SBC-9A replaced SBC-11 for monitoring water in this section of the #1 Mine; however, additional roof falls made Mine #1, including SBC-9A, inaccessible. The pipe that carries the water out of the mine to the culinary water supply is now the location for water quality and quantity monitoring, and SBC-9A has been retained as the name for this sampling site.

**Springs** YES  NO

**Streams** YES  NO

**UPDES** YES  NO

There was no discharge from any of the UPDES permitted sites during the second quarter 2006.

DMR parameters that are not included in the operational parameter lists in the MRP - such as sanitary wastes, visible foam, and floating solids - are not reported in the

electronic submittal to the Division. Operational monitoring values are reported for UPDES flow, TDS, TSS, pH, and total iron.

**Wells** YES  NO

**2. Were all required parameters reported for each site?**

**In-mine** YES  NO

**Springs** YES  NO

**Streams** YES  NO

**UPDES** YES  NO

**Wells** YES  NO

**3. Were any irregularities found in the data?**

Listed parameters were outside two standard deviations: "n" is the number of values used to calculate the standard deviation in the Division's database. An asterisk (\*) indicates this is not a parameter required by the MRP.

**In-mine** YES  NO

**Springs** YES  NO

SBC-4 May: field specific conductivity (n = 83).

SBC-9A May: field specific conductivity (n = 14), bicarbonate (n = 7), and total alkalinity (n = 14).

SBC-17 May: sulfate (n = 20) and Cl (n = 21).

SMH-1 May - June: field specific conductivity (n = 45).

SMH-2 May - June: field specific conductivity (n = 42).

SMH-3 May - June: field specific conductivity (n = 41).

SMH-4 May - June: field specific conductivity (n = 42).

**Streams** YES  NO

MH-1 DO (n = 27).

**UPDES** YES  NO

**Wells** YES  NO

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

Baseline parameters are to be taken in August of year 5 prior to each permit renewal (Table 7.1-8). Baseline parameters were measured August 2000 and included with the Third Quarter 2000 data submittal. Baseline parameters were to have been determined in August 2005, but they were missed and an NOV was issued. To abate the NOV, baseline analyses are to be done on samples collected in August 2006.

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

Field specific conductivity is frequently outside two standard deviations. The Permittee needs to assure field procedures are correct and equipment accurate.

**6. Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements?** YES  NO

**7. Follow-up from last quarter (1st Qtr 2006), if necessary.** YES  NO

**8. Did the Mine Operator respond adequately to queries about missing or irregular data?**

YES  NO