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WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

February 8, 2008

TO: Internal File
THRU: Pamela Grubaugh-Littig, Permit Supervisor
FROM: James D. Smith, Environmental Scientist III
RE: 2007 Third Quarter Water Monitoring, CO-OP Mining Company, Bear Canyon Mine, C/015/0025

Handwritten initials and date:
JDS 02/11/08

The monitoring plan is described on pages 7-48 through 7-60A of the MRP. It includes Tables 7-12 through 7-17.

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

In-mine YES NO

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 were no UPDES discharges in the third quarter. 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.

Wells YES NO

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

For samples collected between July 2007 and June 2008, baseline parameters are to be measured at CK-1, CK-2, FC-2, SBC-18, SBC-21, SCC2, and SCC-3.

In-mine	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Springs	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Streams	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
UPDES	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Wells	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

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

Listed parameters were outside two standard deviations. An asterisk (*) indicates the parameter is not required.

In-mine	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Springs	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

SBC-3 August: Ca, K, Na, Cl, total hardness, TDS, total cations*, and total anions*;
 SBC-5 August: water temperature;
 SBC-16 July: water temperature and field electric conductivity;
 SBC-16 August: field electric conductivity;
 SBC-17 August: bicarbonate as CaCO₃
 SBC-18 July: Mg and lab electric conductivity;
 SBC-18 August: water temperature and lab electric conductivity;
 SCC-3 August: field electric conductivity;
 SMH-4 July: field pH.

Streams	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
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CK-1 August: field electric conductivity;
 CK-2 July: field electric conductivity, water temperature, and K;
 MH-1 July: field DO.

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 7.14). 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 (for renewal due November 02, 2005), but they were missed and the Division issued NOV N06-46-1-1 to the Permittee on February 3, 2006. To abate the NOV, baseline analyses were done on samples collected in August 2006.

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

None.

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, if necessary.

None.

8. Did the Mine Operator submit all the missing and/or irregular data?

YES NO

Baseline parameters are being measured at several new sites for monitoring the Mohrland Expansion area. All baseline parameters for these sites were submitted.