

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

April 12, 2004

TO: Internal File

THRU: Daron R. Haddock, Permit Supervisor

FROM: James D. Smith, Senior Reclamation Specialist

RE: 2003 Fourth Quarter Water Monitoring, Energy West Mining Company, Trail Mountain Mine, C/015/0009-WQ03-4, Task ID #1795

1. Were data submitted for all of the MRP required sites? YES [X] NO []
Identify sites not monitored and reason why, if known:

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 10/21/04, renewal due 02/21/05. Baseline analyses were performed in 1996, 2001 and will be repeated every 5 years, i.e., next baseline analyses will be in 2006.

3. Were all required parameters reported for each site? YES [X] NO []
Comments, including identity of monitoring site:

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

Comments, including identity of monitoring site:

TM-1B: field water temperature (n = 25) was outside the two standard deviation range.

TM-3: water level in this piezometer has been recovering since mine operations ceased, and the pressure gauge was reinstalled in August 2003 because the water level was approaching the top of the casing; however, so far no pressure readings have been reported. (See the chart at the end of this report.)

18-3-1 (T-19): bicarbonate (n = 54), Ca (n = 27), sulfate (n = 54), total alkalinity (n = 52; not a required parameter), total hardness (n = 54), lab conductivity (n = 52; not a required parameter), TDS (n = 54), total anions (n = 50; not a required parameter), and total cations (n = 50; not a required parameter) were outside the two standard deviation range.

SW-2 December: SO₄ (n = 117) was outside the two standard deviation range. (See the chart at the end of this report.)

5. Were DMR forms submitted for all required sites?

1st month, YES [X] NO []

2nd month, YES [X] NO []

3rd month, YES [X] NO []

Identify sites and months not monitored:

DMRs have been submitted in electronic format (Adobe) for all three months.

There was no discharge from either UPDES point during the fourth quarter. The mine was sealed in June 2001 and there has been no reported discharge at UPDES UT23728-002 (the mine-water discharge into Cottonwood Creek) since May 2001.

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

Comments, including identity of monitoring site:

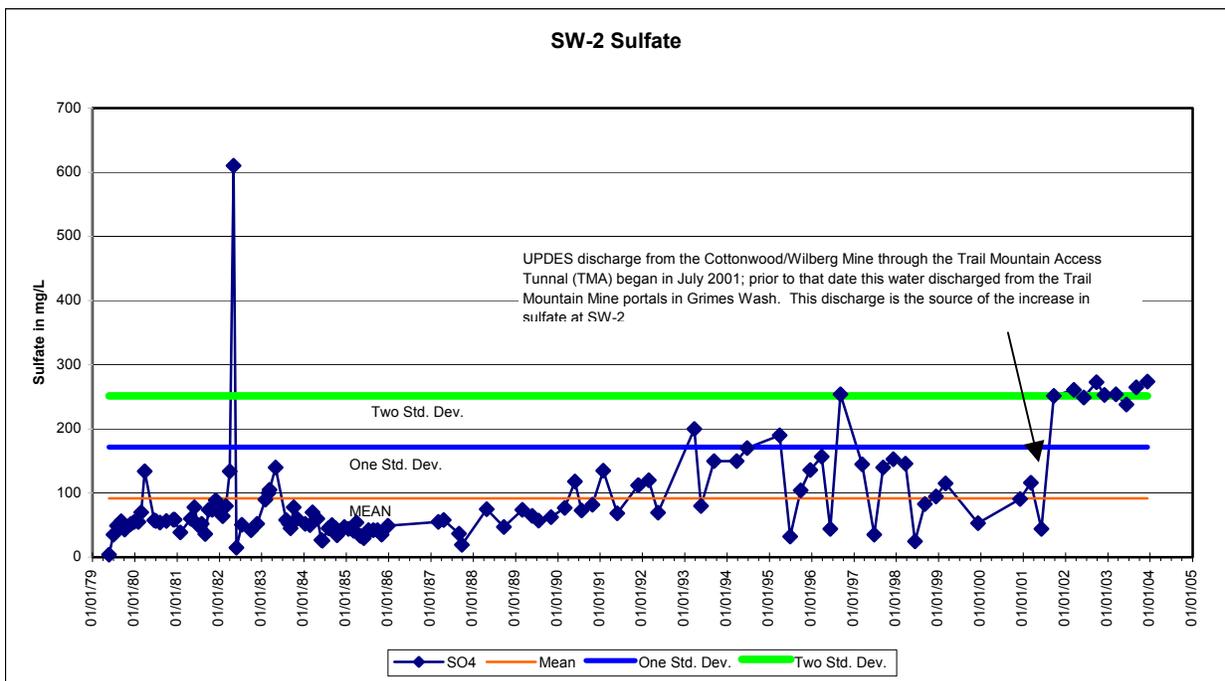
There was no discharge from either UPDES point during the fourth quarter.

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

Comments, including identity of monitoring site:

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

SW-2: the Permittee has identified the UPDES discharge from the Cottonwood/Wilberg Mine through the Trail Mountain Access Tunnel (TMA) as the source of the sulfate: prior to July 2001 this water discharged from the Trail Mountain Mine portals in Grimes Wash. No action is needed at this time.



TM-3: water level in this piezometer has been recovering and the gauge was reinstalled in August 2003 because the water level was approaching the top of the casing, but so far no pressure readings have been reported. Chuck Semborski suspects trapped air is interfering with the gauge, and the gauge will be serviced as soon as the site is accessible with the equipment needed to open the wellhead.

