

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

July 11, 2005

TO: Internal File

THRU: D. Wayne Hedberg, Permit Supervisor

FROM: James D. Smith, Environmental Scientist

RE: 2005 First Quarter Water Monitoring, Andalex Resources, Inc., Centennial Project, C/007/0019, Task ID # 2270

The monitoring plan is described in Section R645-301-711.300 of the MRP. Monitoring sites are shown on Figure IV-11. Reports for many monitoring sites are typically no-flow.

1. Were data submitted for all required sites?

Springs YES [X] NO []

There was no flow at one of the four monitored springs, and *no access* at to two others.

Streams YES [X] NO []

Well YES [X] NO []

One well is monitored.

UPDES YES [X] NO []

There was no discharge for three of the four sites.

2. Were all required parameters reported for each site?

Springs YES [X] NO []

Streams YES [X] NO []
Well YES [X] NO []
UPDES YES [X] NO []

3. Were irregularities found in the data?

Springs YES [X] NO []

S18-1: flow (n = 22), Ca (n = 9), Mg (n = 9), cation-anion balance (n = 8), and lab specific conductivity (n = 11) were outside two standard deviations.

Streams YES [X] NO []

18-3: flow (n = 22) was outside two standard deviations.

Wells YES [X] NO []

Well #1: field conductivity (n = 31), Ca (n = 16), K (n = 16), Mg (n = 17), Na (n = 16), Cl (n = 32), total hardness (n = 32), TDS (n = 30), lab conductivity (n = 26), total cations* (n = 32), and total anions* (n = 32) were outside two standard deviations. [* Not required parameters.]

UPDES YES [X] NO []

UTG040008-004 – March: flow (n = 87) was outside two standard deviations.

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

The Permittee has committed to sampling baseline water parameters one year prior to the renewal date. The next renewal submittal is due 09/04/2006 for renewal on 01/04/2007, so baseline sampling and analysis are to be done in 2006.

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

Since September 1998, the water depth in Well #1 dropped, appeared to stabilize at 72 to 76 feet, and is now rising. A number of parameters exceeded two standard deviations 1st quarter 2005. Conditions at this well will continue to be tracked.

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 (4th quarter 2004), if necessary.**

None.

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

NA