

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

January 12, 2010

TO: Internal File

THRU: James D. Smith, Permit Supervisor *DS 1/13/10*

FROM: April A. Abate, Environmental Scientist II *AAA 1-12-10*

SUBJECT: 2009 Third Quarter Water Monitoring, Andalex Resources, Centennial Mine, C/007/0019, Task ID #3375

The Centennial Mine is currently in temporary cessation. No mining or coal processing activities currently take place there, nor is the site in active reclamation.

The current water monitoring plan is located in Section R645-301-711.300 of the MRP (Mining and Reclamation Plan) beginning on page 7-2 thru 7-8. Sampling locations are found on Figure VII-1 located at the end of Chapter 7 illustrating the active and deleted groundwater and surface water monitoring locations that have been approved by the Division.

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

Springs YES NO

The spring sample was not flowing this quarter.

Streams YES NO

Neither stream samples was flowing this quarter.

Wells YES NO

Well #1 reported data for the third quarter.

UPDES YES NO

All four UPDES locations were monitored monthly in accordance with the permit. No discharge from any of the sample locations was reported for the third quarter of 2009.

2. Were all required parameters reported for each site?

Springs YES NO

Not applicable this quarter.

Streams YES NO

Not applicable this quarter.

Wells YES NO

UPDES YES NO

Not applicable this quarter.

3. Were any irregularities found in the data?

Springs YES NO

Not applicable this quarter.

Streams YES NO

Not applicable this quarter.

Wells YES NO

pH levels were slightly alkaline and above groundwater quality standards (R317-6-2.1) during the third quarter at a level of 9.2. The standard for pH in groundwater ranges between 6.5 - 8.5.

UPDES YES NO

Not applicable this quarter.

4. Did the Permittee make a timely submittal of all data, including initially missing data, and satisfactorily explain irregular data? YES NO

5. Does the Mine Permittee need to submit more information to fulfill this quarter's monitoring requirements? YES NO

The Division would like to request information on whether or not any survey data is

available for Well#1? The top of casing elevation would be useful in determining depth-to-water measurements relative to the elevation.

With respect to the elevated pH level, this is the first reading collected since the pump was repaired. pH levels should be watched to determine if more neutral levels can be reached, or if this trend persists.

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

See item #5 above.

7. Follow-up from last quarter, if necessary.

None