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WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

June 13, 2011

TO: File

THRU: James D. Smith, Permit Supervisor *JS 06/14/11*

FROM: April A. Abate, Environmental Scientist III *AAA 6/14/2011*

SUBJECT: 2010 4th Quarter Water Monitoring, Andalex Resources, Centennial Mine, C/007/0019, Task ID #3693

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. Sections 711.300 pages 7-2 through 7-10 and Appendix L of the MRP pertain to water monitoring. Water sampling locations are shown on Figure IV-11.

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

Springs YES NO

The spring in Deadman Canyon below the confluence of the Left and Right Forks of Deadman Canyon is sampled quarterly.

The spring reported no flow during the fourth quarter of 2010.

Streams YES NO

Stream sample 18-3 at the left fork of Deadman wash has not flowed since May 2008, which was right around the same time the mine shut down. Stream sample 18-4 has not flowed since 2005. Both locations are surface water points located below the mine.

Wells YES NO

Well #1 was not sampled during the 4th quarter of 2010 due to a mechanical breakdown with the pump in the well.

UPDES YES NO

All UPDES locations were monitored monthly in accordance with the permit. No discharge from any of the sample locations was reported for the 4th quarter of 2010. Discharge has not been reported from any of the UPDES locations since June 2008, which was right around the same time the mine shut down.

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 and Pond YES NO

Not applicable this quarter.

Streams YES NO

Not applicable this quarter.

Wells YES NO

Not applicable this quarter.

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

Not applicable

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

The permittee was not able to collect any samples this quarter due to the pump malfunctioning.

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

Well #1 continues to have maintenance issues and requires reevaluation.

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

None