#3902
OK

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

March 22, 2012

TO: File

THRU: Steve Christensen, Permit Supervisor SKC

FROM: April A. Abate, Environmental Scientist III AAA 3/26/2012

SUBJECT: 2011 3rd Quarter Water Monitoring, Andalex Resources, Centennial Mine, C/007/0019, Task ID #3902

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? **YES** ☒ **NO** ☐

Springs

The spring in Deadman Canyon – S18-1 below the confluence of the Left and Right Forks of Deadman Canyon is sampled quarterly.

The spring reported no flow during the second quarter of 2011.

Streams

Two stream locations are required for quarterly sampling: Site 18-3 is located in the Left Fork of Deadman Canyon above the confluence with the Right Fork of Deadman Canyon and flows on an ephemeral basis. Site 18-4 represents the right fork of Deadman Canyon below the main surface facilities.

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 of these sample locations are surface water points located below the mine.

Wells

Well #1 is located in Deadman Canyon and is screened in the Aberdeen Sandstone below the coal seam. Well #1 was sampled during the 3rd quarter of 2011 on July 8, 2011 for operational parameters.

UPDES YES ☒ NO ☐

A total of four UPDES discharge outfalls are permitted at the Centennial Mine. Outfall 001 represents the sediment pond discharge location. Outfall 002 represents mine discharge from the Pinnacle Mine portion of the permit area. Outfall 003 represents discharge from the second sediment pond in the permit area. Outfall 004 represents discharge from the Aberdeen Mine. All outfalls are required to be monitored on a monthly basis in accordance with UPDES Permit #UTG040000.

No discharge from any of the sample locations was reported for the 3rd quarter of 2011. 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 ☒

None of the parameters analyzed were outside of two standard deviations.

UPDES YES ☐ NO ☒

None of the above locations discharged during 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 ☒

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

None

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

None