

# WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

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March 13, 2014

TO: File

THRU: Steve Christensen, Permit Supervisor



FROM: Ken Hoffman, Hydrologist KH

SUBJECT: Third Quarter of 2013 Water Monitoring, Andalex Resources, Centennial Mine, C/007/0019, Task ID #4415

The Centennial Mine is currently in temporary cessation. No mining or coal processing activities currently take place there. Contemporaneous reclamation has been ongoing at the gas vent well sites on top of the mountain on the Cave and Mathis land as weather permits.

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 Third Quarter of 2013.

**Streams** YES  NO

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.

Neither of the streams reported flow for the Third Quarter of 2013.

**Wells**

YES  NO

Well #1 is located in Deadman Canyon and is screened in the Aberdeen Sandstone below the coal seam. Sampling of Well #1 was attempted September 16, 2013, however the pump was broken and the well could not be sampled.

**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 outfall locations was reported for the Second Quarter of 2013. 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

Not applicable this quarter.

**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**

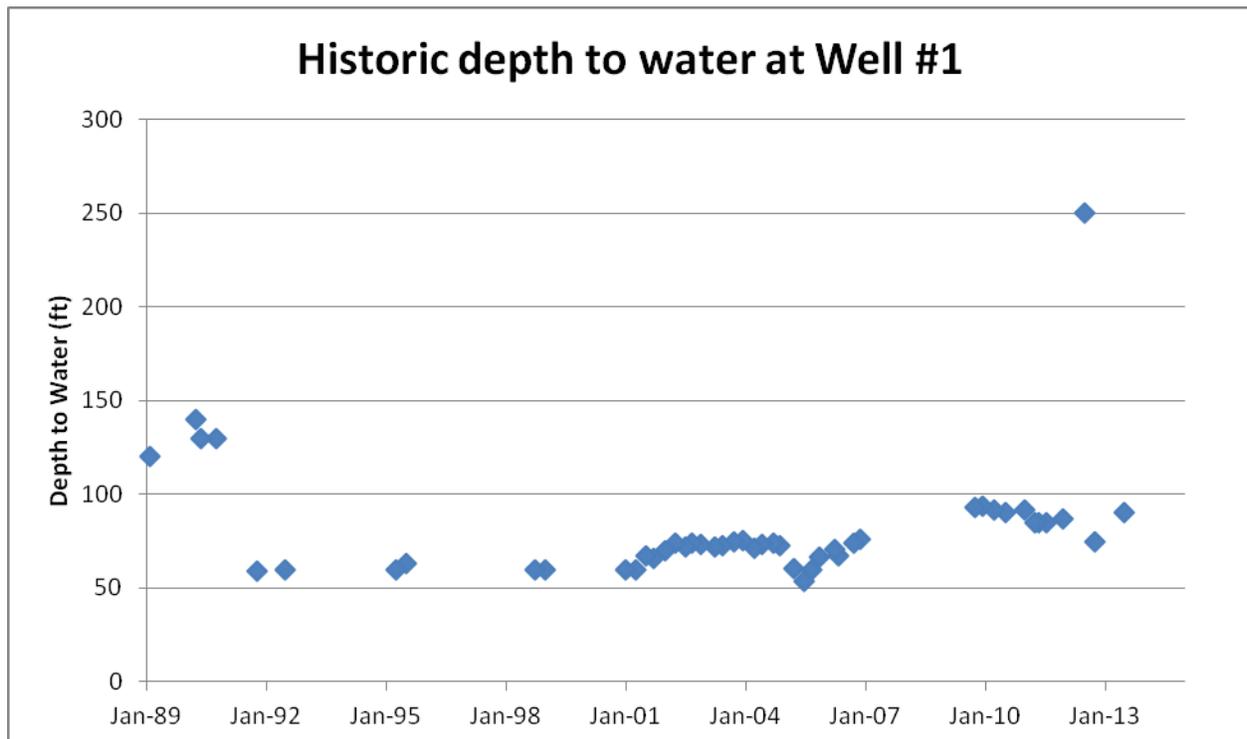
YES  NO

Not applicable this quarter.

**Wells**

YES  NO

Not applicable this quarter. The last depth to water level measured 90 feet, which appears to be consistent with data from previous year's seasonal data. The 250 reading from Second Quarter of 2012 appears to have been an erroneous measurement. The well was not measure during Third Quarter of 2013.



**UPDES**

YES  NO

Not applicable this quarter. 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?**

The continued examination of the depth to water at Well #1 is required.

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

None