

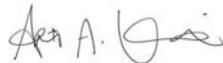
WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

September 28, 2017

TO: Internal File

THRU: Steve Christensen, Permit Supervisor 

FROM: Arati Umarvadia, Environmental Scientist 

RE: 2017 First Quarter Water Monitoring, UtahAmerican Energy Inc., Horse Canyon Complex, C/007/0013, WQ17-1, Task ID #5476

This report was prepared from monitoring data queried from the UDOGM database. The data that support this report were collected and submitted to the database by UtahAmerican Energy Inc. (UEI). The data were downloaded into file O:\007013.HOR\WaterQuality\Spreadsheets\HorseCanyonWQ.xlsx for this review.

Lila Canyon Mine

UEI received permit approval for the Lila Canyon Mine on May 18, 2007 with special conditions attached. The Conditions were clarified on August 3, 2007. Operational water monitoring is described in Section 731.200 and monitoring sites are listed in Table 7-3 of the Lila Canyon MRP. Table 7-4 and Table 7-5 list the monitoring parameters for surface water and groundwater, respectively, and Plate 7-4 shows the water monitoring sites. The list of parameters for baseline, operational and post-mining water monitoring are the same.

1. Were data submitted for all required sites?

Springs YES NO

Operational monitoring for Lila Canyon includes quarterly monitoring at springs L-11-G, L-12-G, L-16-G and L-17-G. The springs had no access during this quarter.

Streams YES NO

Surface water (stream) sites are monitored quarterly. Sites L-1-S, L-2-S, L-3-S, and L-19-S are identified for surface water monitoring for the Lila Canyon Mine.

Stream monitoring sites were monitored according to the schedule. L-19-S did not have access this quarter.

Wells YES NO

The wells were inaccessible this quarter.

UPDES YES NO

Discharges from the Lila Canyon Mine are authorized under UPDES Permit No. UT0026018. The Lila Canyon Mine UPDES permit identifies two discharges: 001 is discharge from the sediment pond and 002 is discharge from the underground mine. These discharges are being monitored as sites L-4-S and L-5-G, respectively. The UPDES permit specifies monitoring frequency and required parameters. The underground mine and sediment pond are constructed but not discharging.

Required monthly monitoring data for L-5-G was reported not reported in February of this quarter.

The monthly monitoring for L-4-S was not completed as scheduled. One measurement from January reported as no flow, was provided to the Division. Measurements for February and March have not been provided.

2. Were all required parameters reported for each site?

Springs YES NO

Streams YES NO

Wells YES NO

UPDES YES NO

3. Were irregularities found in the data?

The following sites reported parameters more than two standard deviations from the mean:

Springs YES NO

Streams YES NO

Wells YES NO

IPA-2 and IPA-3 have both shown a significant drop in water levels over the last two quarters.

UPDES

YES

NO

The mine discharged at L-5-G for the first time in years at 10 gpm.

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

Re-sampling for baseline parameters is due preceding permit renewal. Analysis of baseline water samples is conducted according to the operational monitoring plan, therefore no additional parameters are required for baseline monitoring.

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

Continue to monitor L-9-G, and the IPA wells closely for the next quarter.

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

None.