

# WATER QUALITY MEMORANDUM

## Utah Coal Regulatory Program

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January 27, 2016

TO: Internal File

THRU: Steve Christensen, Permit Supervisor 

FROM: Amanda Daniels, Environmental Scientist 

RE: 2015 Second Quarter Water Monitoring, UtahAmerican Energy Inc., Horse Canyon Complex, C/007/0013, WQ15-2, Task ID #4921

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-7-G, L-8-G, L-9-G, L-16-G and L-17-G. All springs were monitored according to the schedule.

**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.

All required stream sites were monitored for the quarter. All streams reported "no flow".

**Wells**            **YES [X] NO [ ]**

Wells IPA-1, IPS-2, and IPA-3 were all monitored.

**UPDES**           **YES [X] NO [ ]**

Discharges from the Lila Canyon Mine are authorized under UPDES General Permit No. UTG040000 as application number UTG040024. 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 both points was reported as “no flow” for second quarter 2015.

**2. Were all required parameters reported for each site?**

**Springs**           **YES [X] NO [ ]**

**Streams**           **YES [X] NO [ ]**

**Wells**             **YES [X] NO [ ]**

**UPDES**            **YES [X] NO [ ]**

**3. Were irregularities found in the data?**

**Springs**           **YES [ ] NO [X]**

**Streams**           **YES [ ] NO [X]**

**Wells**             **YES [ ] NO [X]**

**UPDES**            **YES [ ] NO [X]**

This quarter additional sites were picked up to collect baseline laboratory again since they were last monitored in 2011.

**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?**

None.

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

None