

# WATER QUALITY MEMORANDUM

## Utah Coal Regulatory Program

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March 30, 2010

TO: Internal File

THRU: James D. Smith, Permit Supervisor *JS 31 Mar 2010*

FROM: April A. Abate, Environmental Scientist II *AAA 3-31-2010*

RE: 2009 3rd Quarter Water Monitoring, Hiawatha Coal Company (HCC), Hiawatha Mine, C/007/0011, WQ09-02, Task #3382

HCC has supplied schedules for water monitoring and parameter reporting in Tables 7-12 through 7-17, in the Mining and Reclamation Plan (MRP), updated on June 6, 2003. Water monitoring locations can be found on Plates 7-1 and 7-2 in the Hiawatha MRP.

The Hiawatha Mine is currently not producing coal from the underground mine. There is currently no underground mining taking place. Coal fines are mined from Slurry Pond 1 and blended with fines from the Bear Canyon mine when market conditions are favorable.

**1. Was data submitted for all of the MRP required sites?** YES [ X ] NO [ ]  
*Identify sites not monitored and reason why, if known:*

**Springs** HCC monitors six springs at the minesite, SP-2, SP-4, SP-5, SP-11, SP-12 and SP-13. Operational sampling is established in the MRP as two times per year, for spring sites, in June and October. Operational parameters were not required for sampling for 3<sup>rd</sup> quarter.

**Streams** HCC monitors 10 stream locations at/near the mine site, ST-1, ST-2, ST-2B, ST-3, ST-3A, ST-3B, ST-4, ST-4A, ST-4B, and ST-5. HCC currently monitors field parameters of streams on a monthly basis from April through October, (Table 7-16). Field parameters were collected in July and August for all stream sample sites. Operational parameters were collected in September from the flowing stream sample locations. Stream sample locations: ST3, ST3A, ST3B, ST-4, ST-4A, ST-4B were reported as dry for the operational monitoring period in September.

**UPDES** There are a total of 13 UPDES sample locations listed in Permit #UT0023094 for the Hiawatha Mine used to establish discharge quality. UPDES locations are monitored monthly according to Table 7-13. The UPDES locations D003 through D013 listed in the current UPDES permit typically do not discharge. The current permit is due to expire in December 2014. All UPDES sample locations are outlined below:

Pond No.	Location
D001	Mohrland Portal
D002	Overflow at Hiawatha
D003	Upper Coal Storage Yard
D004	North of Slurry Pond No. 1
D005	East of Slurry Pond No. 4
D006	North East of Slurry Pond No. 5
D007	South East of Slurry Pond No. 5
D008	Middle Fork Mine Yard
D009	South Fork Mine Yard
D010	King Mine 4 Discharge
D011	South Fork Truck Loading Facility
D012	Mohrland Pipeline Drain
D013	King 6 Water Tank Overflow

During the third quarter of 2009, only D001 and D002 yielded flow.

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

**Springs** YES [ ] NO [ ]

Not applicable

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

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

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

**Springs** YES [ ] NO [ ]

Not applicable

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

Water quality in all flowing stream samples appears to be satisfactory and meeting applicable state water-quality standards.

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

All discharge effluent samples are meeting the UPDES permit-established standards.

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

No baseline sampling obligations are stipulated in the Hiawatha MRP.

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

None.

**6. Does the Mine Operator need to submit more information to fulfill this quarter's monitoring requirements?  Yes  No**

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

No field parameters were collected from UPDES sample site D002 during 2<sup>nd</sup> quarter other than flow during the June 2009 sampling event. All required parameters were sampled for during the 3<sup>rd</sup> quarter including field parameters during the months of July and September and water quality parameters in August 2009.

Total Suspended Solids (TSS) data was not collected at stream sample ST-5. TSS was monitored in September 2009. The TSS analytical result was non-detect.