

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

November 8, 2011

TO: Internal File

THRU: Steve Christensen, Permit Supervisor *SCC*

FROM: April A. Abate, Environmental Scientist III *AAA - 2011*

RE: 2011 1st Quarter Water Monitoring, Hiawatha Coal Company (HCC), Hiawatha Mine, C/007/0011, Task #3753

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 October 11, 2011. Water monitoring locations can be found on Plates 7-1 and 7-2 in the Hiawatha MRP. The Hiawatha mine holds a Utah Discharge Elimination System (UPDES) Permit #UT0023094. A total of 13 outfalls are permitted at the site. Two of these outfalls discharge consistently (D001 and D002).

The Hiawatha Mine is currently in temporary cessation. There is currently no underground mining taking place.

1. Was data submitted for all of the MRP required sites? YES 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 was established in the MRP as two times per year, for spring sites, in June and October. A recent amendment approved by the Division on October 11, 2011 allowed these spring locations to be suspended from the sampling plan until two years prior to underground mining resuming.

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 May through August. Operational sampling occurs in April and September (Table 7-16).

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 quarterly according to permit. 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 first quarter of 2011, locations D003 through D013 did not report any flow data. Curiously, all the locations that did not discharge were monitored on January 1, 2011 and were all observed not to be discharging at the exact same time (15:00)! Monthly data from UPDES locations D001 and D002 were reported this quarter. Analytical data were collected from outfalls D001 and D002 on March 9, 2011.

2. Were all required parameters reported for each site?

Springs YES NO

Not applicable. According to the MRP, spring samples are not required to be collected during the first quarter.

Streams YES NO

Not applicable. According to the MRP, stream samples are not required to be collected during the first quarter.

UPDES YES NO

3. Were irregularities found in the data?

Springs YES NO

Not applicable.

Streams YES NO

Not applicable.

UPDES YES NO

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The Division water database indicated that dissolved iron was populated with a result but in the comments section, the comment stated that total iron was analyzed. The operator may have erroneously entering data into this field.

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?

No

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

Total iron analysis was collected from UPDES outfall locations D001 and D002. During 4th quarter 2010, this analysis was missing from the water monitoring report.