

#3970

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WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

June 20, 2012

TO: Internal File

THRU: Steve Christensen, Permit Supervisor *SC*

FROM: April A. Abate, Environmental Scientist III *AAA*
7/2/2012

RE: 2011 4th Quarter Water Monitoring, Savage Services Corporation, Savage Coal Terminal, C/007/0022, Task #3970

The Savage Coal Terminal is an operating coal loadout where coal is crushed, screened, blended, and then loaded onto rail transport. Pertinent water monitoring requirement information is in the MRP in Section 731.200.

1. Was data submitted for all of the MRP required sites? YES NO

Springs

The Permittee is not required to monitor any springs at the Savage Coal Terminal. There are no springs to monitor at the Savage coal terminal site.

Streams

Stream site CV-14-W is required to be monitored during the 2nd and 4th quarters of each year.

CV-14-W was monitored during the 4th quarter of 2011 but no flow was reported.

Wells

There are three groundwater monitoring wells at the site: S-1-GW, S-2-GW, and CV-1-W.

As of 4th quarter 2010, the MRP states that wells S-1-GW, S-2-GW will be monitored bi-annually during the 2nd and 4th quarters of each year. CV-1-W is required to be monitored during the 2nd and 4th quarters of each year.

CV-1-W, S-1-GW, and S-2-GW were monitored during the 4th quarter 2011 on

November 16, 2011. An additional groundwater sample from well S-2-GW was collected on September 13, 2011 in response to recent detections of oil and grease in groundwater from this well.

UPDES

There is one active UPDES outfall at the Savage Coal Terminal, CV-15-W, or UTG040005-001. The Permittee is required to monitor this UPDES site monthly under Permit # UTG040005 that is due to expire on April 13, 2013.

The location was monitored monthly during the 4th quarter 2011. The Permittee recorded no flow at the UPDES point during the period.

2. **Were all required parameters reported for each site?** YES [X] NO []
3. **Were any irregularities found in the data?** YES [X] NO []

Oil and grease has been detected in groundwater monitoring well S-2-GW on a somewhat sporadic basis. Savage has been monitoring the groundwater sample in well S-2-GW for oil and grease on a monthly basis. This quarter, oil and grease was monitored in monitoring wells S-2-GW and CV-1-W. Concentrations ranged from 3.2-3.76 mg/L. The sampling performed on November 16, 2011 did not produce any oil and grease samples due to a problem at the laboratory. The Permittee collected replacement samples for oil and grease on December 8, 2011.

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

The permit renewal was issued on August 6, 2010. The permittee has committed to collecting baseline samples once every 5 years. The next scheduled baseline sampling is 4th quarter of 2013.

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

Concentrations of oil and grease in the groundwater monitoring wells appear to be similar in the monitoring wells. *Quarterly* testing for oil and grease is now recommended for *both* wells to analyze for trends. If concentrations reach above 10 mg/L, then additional TPH testing is still recommended.