

#4124
OK

WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

December 17, 2012

TO: Internal File

THRU: Steve Christensen, Permit Supervisor *SKL*

FROM: April A. Abate, Environmental Scientist III *AAA 12-18-2012*

RE: 2012 2nd Quarter Water Monitoring, Savage Services Corporation, Savage Coal Terminal, C/007/0022, Task #4124

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

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

CV-14-W was monitored on June 21, 2012. No flow was reported.

Wells

There are four groundwater monitoring wells at the site: S-1-GW, S-2-GW, S-3-GW and CV-1-W. Wells S-1-GW, S-2-GW and CV-1-W will be monitored bi-annually during the 2nd and 4th quarters of each year. Monitoring well S-3-GW was installed during summer 2012. S-3-GW will be monitored quarterly for a period of two years, then bi-annual thereafter.

All wells were monitored during the 2nd quarter on June 21, 2012. Wells S-1-GW and S-3-GW were reported as dry this quarter.

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 2nd quarter 2012. The Permittee recorded no flow at the UPDES point during the period.

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

Total suspended solids (TSS) and total iron were reported outside of two standard deviations at French Drain sample CV-1-W. TSS was reported at a higher than average concentration of 872 mg/L and total iron was reported at a concentration of 8.19 mg/L. The Permittee reported that the water level in the French drain at the time of sampling was lower than usual and could have been a contributing factor to higher TSS and total iron in the groundwater sample. Water temperature was measured lower than usual in S-2-GW at 7.9 deg C. Groundwater temperatures previously measured for this well average 13.65 deg C.

Oil and grease were detected in both groundwater samples at respective concentrations of 10 mg/L and 7 mg/L for CV-1-W and S-2-GW.

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

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 declining in monitoring well S-2-GW since February of 2011. *Quarterly* testing for oil and grease is now recommended for wells to analyze for trends. If concentrations reach above 10 mg/L, then additional TPH testing is still recommended.