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State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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May 20, 2002

**TO:** Internal Files  
**THRU:** Joseph C. Helfrich, Senior Reclamation Specialist/Team Lead *JCH*  
**FROM:** Gregg A. Galecki, Senior Reclamation Specialist/Hydrologist *GAG*  
**RE:** Midterm Review, Savage Industries, Inc., Savage Coal Terminal Mine, C/007/022-MT02

**SUMMARY:**

Elements selected for review during the Midterm were outlined in the Division's letter to West Ridge Resources, Inc. on March 26, 2002. Item #3 is discussed in this memo. The elements reviewed include ensuring that the Plan contains commitments for application of the best technology currently available (BTCA) to prevent additional contributions of suspended solids to stream flows outside of the permit area. A review of the Plan was conducted independent of a field visit. Joe Helfrich (Inspector) is on site on a monthly basis, and the hydrologist last inspected the site on December 12, 2001.

**TECHNICAL ANALYSIS:**

**OPERATION PLAN**

**HYDROLOGIC INFORMATION**

Regulatory Reference: 30 CFR 773.17, 774.13, 784.14, 784.16, 784.29, 817.41, 817.42, 817.43, 817.45, 817.49, 817.56, 817.57; R645-300-140, -300-141, -300-142, -300-143, -300-144, -300-145, -300-146, -300-147, -300-147, -300-148, -301-512, -301-514, -301-521, -301-531, -301-532, -301-533, -301-536, -301-542, -301-720, -301-731, -301-732, -301-733, -301-742, -301-743, -301-750, -301-761, -301-764.

**TECHNICAL MEMO**

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**Analysis:**

**Sediment Control Measures**

The existing plan primarily provides sediment control through the use of silt fences, straw bales, sedimentation ponds, rock gabion energy dissipators, and ASCA's for the BTCA treatment of disturbed areas. All silt fences have been viewed during monthly inspections and are maintained and in good working order.

BTCA's 1 through 6, as illustrated in Plates 3-2 and 4-1, are inspected in the field on a regular basis and determined to be providing adequate sedimentation control.

Maintenance of the disturbed area ditches and ponds have been monitored during regular quarterly inspections.

**Sedimentation Ponds**

Sediment Pond 5 regularly holds water due to shallow groundwater in the area. When Pond 5 starts holding significant water, it is diverted to Pond 6 and then to the sump where it is used on the site for dust control. All ponds on the facility have 60 percent clean-out markers that are visible and well maintained. A record check from 1990 through 2002 indicated only one UPDES discharge has occurred; in June 1995.

**Findings:**

No failure of BTCA off the permit area has been noted during the site inspections. The Mine plan meets the minimum requirements of the regulations.

**RECOMMENDATION:**

Both the plan and on-site observations meet the commitment for application of the best technology currently available (BTCA) to prevent additional contributions of suspended solids to stream flows outside of the permit area. No modifications to the MRP are necessary from the midterm review.

Although not a requirement, the Division recommends installing an inexpensive rain gage at the site. In the event a major storm, the operator would be able to demonstrate whether the magnitude of the storm exceeded the designed storm event for sediment controls.