

March 22, 1991

**To:** Daron Haddock, Permit Supervisor

**From:** Rick P. Summers, Senior Hydrologist

**Re:** Review - Temporary Storage Site II, (received March 8, 1991), Soldier Creek Mine, Soldier Creeek Coal Co., ACT/007/018, Carbon County, Utah

**Summary:**

This submittal is a major departure from the original topsoil/waste rock proposal received by the Division on December 10, 1990. The proposal now minimizes the activities at the site to essentially storage of topsoil and substitute topsoil to facilitate the proposed county road relocation/surface facilities expansion at the main mine site. The package requests approval for a 4.5 acre permit area of which approximately 1.3 acres is proposed for disturbance for strictly storage of topsoil/substitute material and construction of drainage/sediment control.

The proposal includes a complete drainage plan that was anticipated for the original proposal. This plan includes a sedimentation pond and several disturbed area drainages. Although that drainage plan is included as an appendix to this proposal, the intent is to not constructed these facilities at this time. Portions of the drainage report are anticipated and approved as outlined in the recommendation section of this memo. Sediment control for the proposed activities (storage of topsoil) can be acheived using a containment berm designed to completely contain the 10 yr. - 24 hr. precipitation event. The berm will be 1.5 ft. in height. The calculations for the design have been reviewed and verified as correct. The drainage control plan also includes two diversions to divert undisturbed drainage from the storage area (UD-1 and UD - 2) and an 18 inch culvert to pass the drainage beneath the short (100 ft.) access road to the site. The designs have been verified and are approvable.

The proposal commits to controlling the iterim disturbance drainage associated with the construction of the site with silt fencing/straw bales. Specific locations are not presented, however, the Division feels that the placements are more appropriately done in the field at the time of construction. These facilities will be inspected for adequacy as part of the Division's routine inspection program.

The application repeatedly refers to an impoundment to be constructed. This would be more appropriately termed a containment berm (see above discussion). There are no impoundments approved as part of this action.

**Recommendations:**

The proposal is approvable with the following condition:

The applicant must include on the as-built drawing of the facility an accurate depiction of the disturbed area following completion of the site. The applicant must submit revised applicable sections of the original MRP to include this area as an alternative sediment control area (ASCA). This information should contain the information in the plan for the existing ASCA areas. This includes disturbed area, percent of total disturbed area as cumulative ASCA areas, sediment control practices, and monitoring commitments.

For clarification, this approval is specific to the following hydrology related activities:

1. Construction of the road and culvert C-3 with associated road drainage diversions.
2. Construction of the undisturbed diversions UD-1 and UD-2.
3. Construction of the containment berms for sediment control.
4. Use and maintenance of alternative sediment control practices during and following construction. These controls must be maintained until approval for removal is received from the Division.
5. Drainage controls (undisturbed diversions) at the time of reclamation must remain until revegetation standards are met. Section 3.3 of the proposal should be revised to reflect this commitment.