



State of Utah  
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August 27, 1999

TO: File

THRU: Daron Haddock, Permit Supervisor *DH*

FROM: *PB* Priscilla Burton, Soils Reclamation Specialist

RE: Barn Canyon Ventilation Facility, Permit Amendment, Cyprus Plateau Mining Corporation, Willow Creek Mine, ACT/007/038-98B, Folder #2, Carbon County, Utah

**SYNOPSIS:**

Cyprus Plateau Mining Corporation (CPMC) has submitted an amendment for the Barn Canyon Ventilation Facility. The ventilation facility will consist of a ventilation shaft and emergency escape hoist. The original Barn Canyon Ventilation submittal was on March 6, 1998, followed by revisions received July 13, 1998; March 8, 1999; June 3, 1999 and August 3, 1999. This soils Technical Analysis addresses the last submittal.

**TECHNICAL ANALYSIS:**

**ENVIRONMENTAL RESOURCE INFORMATION**

**SOILS RESOURCE INFORMATION**

Regulatory Reference: 30 CFR Sec. 783.21, 817.200(c); R645-301-220, -301-411.

**Analysis:**

Standard soil descriptions were completed in the field and a total of eleven soil samples were collected from the four pits. Page 3.1-32 of the MRP indicates that the field notes are located in Exhibit 5 (Volume 9).

**Findings:**

This amendment meets the minimum requirements of this section.

## OPERATION PLAN

### TOPSOIL AND SUBSOIL

Regulatory Reference: 30 CFR Sec. 817.22; R645-301-230.

#### Analysis:

Topsoil salvage projections are listed for each Barn Canyon soil Map Unit in two charts on page 3.1-32 of the submittal. The first chart reflects the topsoil to be salvaged within the anticipated area of disturbance. The second chart portrays the available topsoil within the perimeter of the disturbed area, rather than the anticipated area of disturbance.

Table 4-2.1 itemizes the volumes of soil recovered from each disturbance area. Table 4-2.1A reiterates the information in Table 4-2.1 *and* includes the projected depth of salvage for each site. **But**, the soil volumes reported in Table 4-2.1A do not correlate with the projected depth of removal and acreage provided in this same table. Table 4-2.1A must be edited for clarity; so that the reader can multiply the acreage by the depth of recovery to calculate the volume of soil recovered.

The disturbed area boundaries shown on Figure 3.1-1 Barn Canyon Shaft Facility Soils Study have been changed from the original map submitted in 1998. Boundaries of the soil map units were extrapolated from the original map based upon information received from Jim Nyenhuis.

#### Findings:

The permittee must provide the following in accordance with the requirements of:

**R645-301-121.100 and R645-301-121.200**, Please edit Table 4-2.1A for clarity as described in the technical analysis section above.