

# TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

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September 11, 2006

TO: Internal File

THRU: Wayne Hedberg, Permit Supervisor *WH*

FROM: James D. Smith, Environmental Scientist III, Team Lead *DS*

RE: # 4 Mine Auxiliary Portal ASCA, Task # 2589, CO-OP Mining Company, Bear Canyon Mine, C/015/0025

## SUMMARY:

This amendment has been submitted to update Appendices 5-P and 7-K of the MRP. The Division received it July 20, 2006

Appendix 5-P contains the plans for a portal that was to be built to allow access to remote surface areas for water monitoring and as an emergency escapeway. The plan includes reclamation of this portal. The Division approved incorporation of this appendix into the MRP in January 2006 (Conditional Approval letter dated January 25, 2006). The Permittee subsequently opened the portal by breaking out from the mine workings, and most of the proposed changes in this amendment merely update language in Appendix 5-P to clarify that the portal has been constructed.

The Division's Conditional Approval letter required the Permittee to provide the Division with a sediment control design plan for the #4 Mine Auxiliary Portal surface disturbance within 30 days following completion of the construction activities, and this proposed amendment also addresses that requirement. Topsoil disturbed by the breakout is stored within the portal opening. An ASCA is described in Appendix 7K. This ASCA, designated as BTCA Area R-4 Mine Auxiliary Portal, includes the topsoil pile and the adjacent walkway that allows access to the surface. This area is contained by the walls of the portal shaft and the berm built along the stopping that covers the portal. The ASCA contains runoff and controls sediment, all water falling within the portal opening being contained within the berm. The area is approximately 0.001 acre.

**TECHNICAL ANALYSIS:**

**OPERATION PLAN**

**HYDROLOGIC INFORMATION**

Regulatory Reference: 30 CFR Sec. 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.

**Analysis:**

**General**

A #4 Mine Auxiliary Portal was built as a breakout from the mine. This portal allows access to remote surface areas for water monitoring and is also an emergency escapeway.

Topsoil recovered during the breakout is stored within the portal opening. An ASCA, designated as BTCA Area R-4 Mine Auxiliary Portal, is described in Appendix 7K. This ASCA includes the topsoil pile and the adjacent walkway that allows access to the surface. The ASCA consists of the walls of the portal shaft and a berm built along the stopping that covers the portal. The ASCA contains runoff and controls sediment, all water falling within the portal opening being contained within the berm. The area is approximately 0.001 acre, and calculated peak runoff is 0.0050 iph.

Drainage from above the portal is minimal because the impacted area is small and the opening is on a natural crest, causing water to flow away from opening.

**Findings:**

Hydrologic Information is sufficient to meet the requirements of the Coal Mining Rules.

**RECOMMENDATIONS:**

The Division should approve this amendment. The Master TA does not need to be modified.