

TECHNICAL MEMORANDUM

Utah Coal Regulatory Program

June 10, 2013

TO: Internal File

THRU: Priscilla Burton, En Sci III, Soils, Team Lead *PWB by SAS*

FROM: Peter Hess, En Sci III, Engineering and Bond Review *PHH by SAS*

RE: Revised DDI & Sediment Impoundment 4, Alton Coal Development, LLC, Coal Hollow Mine, C/025/0005, Task ID #4369

SUMMARY:

The Division received a permit amendment application to make some minor hydrologic changes to ditch DD1 and Sediment Pond #4 on June 7, 2013. The submittal contains the following items for replacement into the currently approved MRP:

- 1) Vol. 3, Chapter 5, Sediment Impoundment and Diversion Structure Analysis
- 2) Vol. 3, Drawing 5-3, Facilities and Structures Layout
- 3) Vol. 5, Diversion Ditch Watersheds
- 4) Vol. 5, Drawing 5-31, Sediment Impoundment 4 Details
- 5) Vol.5, Drawing 5-33, Diversion Ditch 1 Details
- 6) Vol.7, Chapter 7, Pages 7-66, 7-67, 7-75, 7-76, 7-78, and 7-93.

This memo will address the changes requested to the Chapter 5, Engineering section of the R645 Coal Mining Rules, namely a revised Drawing 5-3, Facilities and Structure Layout. All other requested changes and/or revised drawings are relative to Chapter 7, Hydrology, and these must be addressed by the Division assigned hydrologist for the Coal Hollow Mine.

TECHNICAL ANALYSIS

OPERATION PLAN

SURFACE FACILITIES AND OPERATION

Regulatory Reference; R645-301-512.120

Analysis:

A revised Drawing 5-3, Facilities and Structures Layout, which is contained in Volume 3 of the Coal Hollow Mining and Reclamation Plan has been submitted as part of the Task ID # 4369 application.

The submitted / revised Drawing 5-3 shows a reduction in the amount of disturbance in the S1/2 NE1/4 SE1/4 of Section 19, T 39 S, R 5 E, in addition to a reduced disturbance in the SE ¼ SE1/4 of Section 19, T 39 S, R 5 E.

The submitted / revised Drawing 5-3 (from Task ID # 4369) also shows a reduction in coal recovery on the extreme south end of the Permit area, where Pits 29 and 30 were once planned. Coal will not be recovered from Pits 29 and 30, which was approved in Task ID # 4323. Pond 4 will be constructed on the ground surface as an incised structure in burden.

The revised Drawing 5-3 has received a professional engineers P. E. certification signed and dated by Mr. Larry J. Adams, on April 25, 2013.

There are no changes submitted for the relocation of pond 4 relative to a change in the bond amount for Phase 1.

Findings:

The revised Drawing 5-3, Facilities and Structures Layout Drawing 5-3 meets the requirements for certification and accuracy as it relates to the R645 Coal Mining Rules, Chapter 5, R645-301-500's.

RECOMMENDATION:

Task ID # 4369 should be approved as submitted.