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**Technical Analysis and Findings**  
**Utah Coal Regulatory Program**

**PID:** C0150025  
**TaskID:** 4637  
**Mine Name:** BEAR CANYON MINE  
**Title:** BATHHOUSE PARKING LOT EXPANSION

**Summary**

This amendment was previously reviewed as tasks #3016 and #3097 in 2008 and 2009.

pburton

**General Contents**

**Permit Application Format and Contents**

*Analysis:*

The Permittee submitted an amendment to the Bear Canyon MRP to expand their bathhouse parking lot. Drainage areas for the site were recalculated, along with peak discharges. A water bar will also be replaced by a new culvert to accommodate the widening of the main access road.  
The Permittee needs to fix the apparent pagination discrepancy with page 7-135 of the application. If page 7-135 were replaced in the existing MRP as it is in the application, information will be repeated on page 7-136.

*Deficiencies Details:*

R645-301-120 The Permittee must address the apparent pagination discrepancy with page 7-135 of the application. If page 7-135 were replaced in the existing MRP as it currently reads in the application, information will be repeated on page 7-136.

adaniels

**Operation Plan**

**Topsoil and Subsoil**

*Analysis:*

This amendment describes a 0.36 acre expansion to the shower house pad. The new disturbed area figure is 40.64 acres (Table 1-4). The DZE & D soil map unit disturbed acreage has increased by 0.36 acres on Table 2-2. There is an expected topsoil salvage depth from this map unit of 6 inches.

Table 2-5 describes an increase of 281 cu yds of substitute topsoil from this expansion. However, the total in Table 2-5 did not increase by 281 cu yds. Please make the total volume agree with the adjustment to the total on-site material as listed with this amendment. The amendment should state the location of storage for this topsoil

Table 2-7 shows an increase in Reclamation Area TS-9 of 0.36 acres. The reclamation areas are shown on Plates 2-3 and Plates 5-2.

Table 2-8 location TS-9 has been updated with the 0.36 acre expansion. Table 2-8 now indicates that there will be 3,533 cu yds of topsoil replaced over the 2.19 acre area at reclamation, an increase of 581 cu yds. That translates to twelve inches of replacement topsoil over the 2.19 acre area.

Table 2-8 further lists that an additional 281 cu yd of substitute topsoil will be generated from the expansion to be stored as topsoil in a topsoil stockpile. That topsoil along with substitute topsoil will provide a total of 4,042 cu yds of cover soil from TS-9 at reclamation.

Table 5I-1 Cut and Fill Summary has been revised to show a total fill volume of 10,954 cu yd and total cut volume of 10,911 cu yd from area TS-9. These figures correspond to the sum of cut and fill outlined on Table 5I-8 for area TS-9. was edited to show an increase in volume of soil to fill the pad at cross section E-E.

Cross Section E-E' was added to the TS 9 summary provided on p. 5I-78 in Appendix 5I. The introduction to Appendix 5I states that Plate 5-6 shows the contours upon which these contours are based, but Plate 5-6B was not revised with this application.

*Deficiencies Details:*

R645-301-121.100, Table 2-5 describes an increase of 281 cu yds of substitute topsoil from this expansion. However, the total in Table 2-5 did not increase by 281 cu yds. Please make the total volume agree with the adjustment to the total on-site material as listed with this amendment. And, please state the storage location for this topsoil .

R645-301-512.100, Cross Section E-E' was added to the TS 9 summary provided on p. 5I-78 in Appendix 5I. The introduction to Appendix 5I states that Plate 5-6 shows the contours upon which these contours are based, but Plate 5-6B was not revised with this application. Please provide a certified revision to Plate 5-6 showing the location of cross section E-E'.

R645-301-121.200, The C1C2 form indicates that Plates 2-1A, 2-3B, 5-2B, 5-3, 7-1B and 7-5 were replaced, but no plates were found with the electronic copy of the application.

pburton