

*Incoming  
2/007/0018*



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TO: PRISCILLA BURTON

COMPANY: UDOGM

FROM: Vicky Miller

REMARKS: Let me know if these changes  
meet your requests. Thanks  
Vicky

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development material was placed at least 8 feet up from the bottom of the culvert to minimize any chance of saturation. The material was analyzed (Illustration 10.2.6-1, Appendix 10) and approved by the Division for use as backfill. This will be used for backfilling of the highwalls during reclamation. ~~All underground development materials used in backfilling and grading operations during construction of the new facilities will be accounted for in the reclamation plan~~ and will be placed at the bottom of the highwalls and covered with at least 4 feet of nontoxic and noncombustible material.

The temporary stockpiling of underground development waste and/or excess spoil will be placed as shown on Exhibit 5.21-1a. Presently, the only anticipated underground development waste will be generated during the grading of the portal roadways. Therefore, a maximum of 1000 yd<sup>3</sup> of underground development waste and/or excess spoil will be stored on the operations pad and will be disposed of annually. In 2004 there is no material stored at the location shown on Exhibit 5.21-1a (1994). Per a conversation (3/17/04) with David Spillman, Technical Services Manager at Dugout Canyon Mine who was an engineer at the Soldier Canyon Mine during 1994, "I have no recollection of material ever being stored at the location designated on Exhibit 5.21-1a".

Sampling of all future coal mine waste and excess spoil temporarily stockpiled for longer than 3 months will be, by a composite sample and, analyzed according to Table 6 of the "Utah Guidelines for Management of Topsoil and Overburden". Lab results will be submitted to DOGM with the annual report. In the event that acid and toxic forming materials are identified, the Division will be notified and additional sampling of the material will be performed to define the extent of the problem material.

The sampling program and runoff control, developed by the Applicant, will minimize the potential for any adverse impact to the environment as required by R614-301-731.300.

Overburden material that will be used for pad and other construction at the mine site were sampled for possible toxic contaminants. Representative samples of the overburden and underburden were taken from a previously completed portal exploration cut. Initial samples were taken on 5/8/89 with subsequent resampling completed on 9/30/89. Respective analysis sheets are presented as Illustration 10.2.6-2, Appendix 10. (Note: the second analysis was requested by DOGM due to

Fill material replaced by riprap and filter gravel in stream channel 9,910 cubic yards (267,570 cubic feet)	267570	9910
Topsoil at Sediment Pond below REI Fenced Area	8370	310
<b>SUBTOTAL</b>	783950	29037 (rounded)
<b>Deduct from Subtotal</b>		
Backfilling of Portals & Shafts 67,305 cubic feet	67305	
<b>SUBTOTAL</b>	67305	2493
<b>TOTAL MATERIAL AVAILABLE</b> (FOR RECLAMATION OF CENTRAL FACILITIES AREA)		26544

The excess fill (10,842 cubic yards) available for use on the central facilities area during reclamation will be composed of 3,920 cubic yards of substitute topsoil and 6,922 cubic yards of fill material. The topsoil/substitute topsoil to be used on the central facilities area is 7,974 cubic yards, in addition to the 310 yds of topsoil stored adjacent to the sediment pond below the REI fenced area. The fill material displaced by the incorporation of riprap and gravel in the Soldier Creek Channel is 9,910 cubic yards. Therefore, topsoil/substitute topsoil available for reclamation of the central facilities area will be approximately 12,204 cubic yards (3,920 + 7974 + 310 cubic yards) and available fill material will be approximately 16,832 cubic yards (6,922 + 9,910 cubic yards). Of the 16,832 cubic yards of available fill 2,493 cubic yards will be used to backfill portals. Approximately 14,339 cubic yards of fill material and 12,204 cubic yards of topsoil/substitute topsoil will be spread over the central facilities area during reclamation activities. The available growing media will provide a cover of approximately 5 inches over the pre-SMCRA disturbed area and approximately 12 inches over the post-SMCRA disturbed area. The excess fill material will add approximately 8 inches to the entire disturbed area which will be receiving soils during reclamation.

While the areas which are assumed to be approximately cut/fill balanced do not contribute to the amount of cut or fill material involved, these areas will be graded to achieve a surface which matches the reclamation contours. The volume of grading associated with each of these areas was determined by measuring the approximate cut area and multiplying the area by the estimated average contour