

From: Priscilla Burton
To: Leland Roberts
CC: OGMCOAL
Date: 11/3/2011 9:22 AM
Subject: 0410002 SUFCO Task 3942 Soils information West Borehole Drilling Activities

Thanks Leland.

>>> "Roberts, Leland" <LRoberts@archcoal.com> Wednesday, November 02, 2011 3:30 PM >>>
The only info that I have on soils here are contained in chapter two of the MRP. The hill side has been classified as soil type W this text is copied from there.

Soil type W is found along the western edge of the disturbed area on an east facing slope with a grade of 60% or more (Plate 2-1). The taxonomic classifications of Soil W are that of a loamy-skeletal, mixed, frigid Typic Xerothent. Soil W supports vegetation consisting of sage-grass and mountain brush in this area. This soil consists of excessively well drained soils that have formed in residuum and colluvium. Rock outcrops comprise 30% of the mapped area containing soil type W.

The A1 soil horizon occurs from the surface to a depth of 4 inches. This surface soil horizon is a sandy clay loam composed of 53% sand, 21% silt, and 26% clay; rock fragments compose about 80% (40% gravels, 40% cobbles) of its volume. The A1 horizon has a brown to dark brown color (10YR 4/3) when moist. A pH value of 7.5, EC of 3300 mmhos/cm, and a percent organic matter of 1.54 are present. The solubilities of Ca, Mg, and Na, are 430, 118, and 42 ppm, respectively.

The A1 soil is underlain by a brown to dark brown (10YR 4/3) C soil horizon. The C soil occurs between depths of 4 to greater than 60 inches. It is also a sandy clay loam with sand, silt, and clay percentages of 53, 21, and 26, respectively. Rock fragments compose about 45% by volume (25% gravel, 10% cobbles, 10% stones) of this soil horizon. Solubilities of Ca, Mg, and Na are identical to those in the A1 horizon.

The scale on sheet two is approximately 1" = 100'

If you have any other questions please let me know.
Thanks
Leland

F. Leland Roberts
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-----Original Message-----

From: Priscilla Burton [<mailto:priscillaburton@utah.gov>]
Sent: Wednesday, November 02, 2011 11:21 AM
To: Roberts, Leland
Subject: West Borehole Drilling Activities

Hi Leland,
I am trying to find some information on the soils in the vicinity of the drill holes. No luck using the NRCS Soil Web Survey. Do you have a web site for the USFS EIS of the Pines or Muddy Tract Area that would include a general discussion of the soils? I am coming up with notices and scoping on my searches and not the actual document. So if you could help me out with a web citation, that would speed things along.

Also, do you know the scale of the Proposed Drilling Exhibit #2 that was included in the package.
Thanks,
Priscilla.

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