

From: Priscilla Burton
To: OGMCOAL; White Oak
CC: Haddock, Daron
Date: 11/1/2010 12:28 PM
Subject: 007001 White Oak, Internal, Soils Analyses
Attachments: u653-654.XLSX

The attached soils analysis confirm elevated selenium levels in the stream channel soils. The following selenium levels have been reported:

South facing slopes: 0.11 ppm
Reach 3 & 4: 0.93, 1.43, and 0.74 ppm

Attachment 1 of our Guidelines for Management of Topsoil and Overburden cautions that selenium levels over 0.45 in the rooting zone or in ephemeral drainages should be followed by vegetation and backfill monitoring.

My recommendation is that excess spoil be placed away from the drainage.

>>> Bruce Webb <bruce_webb@byu.edu> Friday, October 29, 2010 2:59 PM >>>
Priscilla,

Here are the results for selenium you have requested. Let us know if you have any questions.

Rachel

Soil and Plant Analysis Lab
255 WIDB
Brigham Young University
Provo, Utah 84602
801-422-2147

Name: Utah Div. Oil, Gas, & Mining
Address: 1594 N. Temple Suite 1210
City, ST, ZIP: Salt Lake City, UT 84114
Date: October 29, 2010

SOIL ID:

Customer Sample ID	Lab #	ppm Se
Reach 3 & 4 #1	653	1.43
Reach 3 & 4 #2	654	0.74