

Internal
C0070001

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To: Brinton, Peter; Lundmark, Kevin; OGMCOAL; Owen, James
Date: 8/26/2010 4:46 PM
Subject: 007001 White Oak Internal
Attachments: 8262010 pre-bid sign up.doc; 8262010 Pre Bid Questions Answers.doc

Today's sign up sheet and Q & A attached.

8/26/2010 Pre-Bid Meeting, White Oak Mine Stabilization Project, AR11035
SIGN UP SHEET

NAME	COMPANY	CITY, STATE	EMAIL	PHONE
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Rhett Housley	Sunroc Corp	Spanish Fork, UT	rhousley@sunroc.net	801-722-2131
Kelly Ellis	Ellis Erosion Control	Provo, UT	kellyellesECS@gmail.com	801-376-6333
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Peter Brinton	DOGM	SLC, UT		
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Priscilla Burton	DOGM	Price, UT		

AR11035
8/26/2010 Pre-Bid Meeting
Question and Answers

Q. *Has seed been purchased?*

A. Yes, Seed and seedling plants have been purchased, but the contractor must pick up the seed from Granite Seed in Lehi, UT.

Q. *Where do we pick up the plants?*

A. The contractor will not pick up the plants. Progressive Plants in West Jordan, UT, will deliver plants to the site.

Q. *In what size containers will the plants be grown?*

A. The plants will be in size #1 containers or 1 gallon containers.

Q. *In what order will the soil amendments and seed applied?*

A. First, hay/straw will be applied and worked into the soil by gouging as far as the hoe can reach. Hay/straw will be crimped into the soil by shovel or dozer track in areas not accessible to the hoe. (This job was to be accomplished by sheep, but the use of hand labor and dozers was recently added as an addendum to the contract on the bidsync site).

Second, Biosolids will be applied by equipment from the terraces and roads. Allow three weeks after biosolids application before seeding.

Third, seed and bonded fiber matrix will be applied to slopes.

Fourth, wood mulch will be spread to cover 50% of the surface.

Q. *Why wait 3 weeks after biosolids application to apply seed?*

A. We want to avoid contact of the seed with the ammonium in the biosolids. After three weeks it will have volatilized. The PRWID biosolids has less nitrogen content than the Spanish Fork biosolids (approx. 1% vs. approx. 4%). So that the three week rule could be reduced to two weeks for the biosolids from PRWID. Or, if all the earthwork is completed, but we are going to be stopped due to weather, we would wait to apply the biosolids and hand broadcast the Triticale component of the seed mix over the entire site.

Q. *Why not seed the whole mix in the fall and then apply biosolids in the spring?*

A. That is a possibility, since biosolids can be applied to growing plants. However, we need the roads to access much of the site for hydroseeding and biosolids application so they would need to remain to be reclaimed the following spring/summer.

Q. *Have the Spanish Fork biosolids been composted?*

A. Spanish Fork biosolids have been digested, aerated etc., but they are not dried to the extent that the PRWID biosolids have been. PRWID turns and moves their piles for several weeks to bake the water and ammonia out of them. Spanish Fork biosolids are approximately 27% solids and PRWID biosolids are about 98% solids, so that moisture needs to be accounted for to arrive a dry Metric Ton rate for application. (It will take more trips from Spanish Fork to deliver the 20 dry MT/ac than from PRWID, due to the moisture content of the solids.) The Spanish Fork Treatment Plant Manager is Dennis Sorensen, 801-798-5051. The PRWID Plant Manager is Brian Harris, 435-637-8547 or 435-636-9411(cell).

Q. *Is lead or other heavy metals a concern with biosolids?*

A. Both Spanish Fork and PRWID water treatment facilities have agreements with the EPA and Utah DEQ for land application of biosolids. Since this will be a one-time application, the only limitation is the nitrogen content of the biosolids.

Q. *When was the reclamation work done before?*

A. It was begun in 2004 and finished in the fall of 2005.

Q. *How thick will the terrace cuts be?*

A. See Maps WO-1 through WO-4 in Appendix C. The base will be 12 ft. wide. The total distance from the top of the cut to the bottom of the fill will be 40 – 50 ft. wide.

Q. *What is the closest water source?*

A. Eccles Creek. The contractor must initiate permitting of a Temporary Change in Point of Diversion through Division of Water Rights. Mr. Erkkila, who runs the store in Scofield, has water rights available for lease. His telephone number is 435-448-9697.

Q. *What hydromulch application rate is specified along the streambank?*

A. The hydroseeding/hydromulching rate for the streambank is the same as that for the slopes = 500 lbs/ac.

Q. *It is a low rate of hydromulch. What is the purpose of the hydromulch?*

A. The purpose of the hydromulch is to stick the seed to the soil. We have specified several means of providing soil protection in addition to the hydromulch. They are the straw/hay and the wood mulch that is matchstick or shredded bark size.

Q. *If the whole area can be hydroseeded, is that better than hand-broadcasting, even if it is more expensive?*

A. Yes it is. But we did not think it would be possible to reach all the slopes with a hydroseeder. We assumed 10 acres hydroseed/mulched and 10 acres handbroadcast.

Q. *Will the bid be kicked out for providing more information i.e bidding on hydroseeding/mulching the entire site?*

A. If that has happened to you before, it may happen again. Develop your cost estimates based on bid schedule which specifies 10 acres to be hydroseeded/hydromulched and 10 acres hand broadcast. Then we can make a field change if we see that the hydroseeder can reach farther than we expected.

Q. *Would hydrostraw application be allowed in place of the baled straw/hay?*

A. The straw will be incorporated into the soil with gouging or crimping. The length of the straw is important for this purpose. The hydrostraw may be too small to serve the purpose, except on the very steepest slopes. Bid according to the bid schedule for application of 2 Tons/ac baled hay/straw over 20 acres. A field change using hydrostraw on the very steepest slopes (along the edge of the highwall) is a possibility.

Q. *Could log bundles used for mine supports be used for log retainers and for mulching?*

A. Yes. Bundled logs used for mine roof supports are 10 ft. long and could be used in the stream retainer structures and for on-site mulching. However, natural looking logs should be used for organic cover along the stream banks. Sources of logs are the surrounding landowners. The landowner along the road and at the site is Darin Caine. His number is 801-541-0973.

Q. *How will the wood mulch be applied?*

A. We envisioned a chipper/shredder would be used.

Q. *Does the spring in Reach 3 of the stream ever dry up?*

A. Last year the area was moist, but there was no running water. The spring appeared this year. We can modify the beginning of the stream widening to avoid the spring.

Q. *To remove the geo-fabric out the stream will be move the rock?*

A. Yes, but only remove the exposed fabric. There will be no fabric removal in Reach 1 which is stable.

Q. *Will the work in the furthest downstream reach affect the power pole on the northeastern boundary?*

A. No, the stream redirect will not extend to the power pole.

Q. *How will the excess material be transported from the stream?*

A. Map WO-8 in Appendix C show access roads that will be used to remove the excess cut.