

Stone Pit, M-1978-080 Construction Material Conversion

Adequacy review response.

6.4.4 EXHIBIT D - Mining Plan

1. Rule 6.4.4 (g) requires secondary commodities to be identified, if there are no secondary commodities please indicate such.

No secondary commodities are expected during this operation.

2. The Division assumes no explosives will be used on site, please provide a statement to confirm.

No Explosives will be used during this operation.

3. Please specify what seed mixture the NRCS has recommended for stabilization of the topsoil stockpile or specifically state in the narrative which specific technical revision approved this seed mixture.

Reseeding recommendation for site county rd. 23 and T

The site was mostly Blue Grama and Buffalo grass with a little sprinkles of western wheat grass.

Because of the recent precipitation rates of the area the reseeding recommendation would be a mix of 50-50 Buffalo Grass and Blue Grama. At a rate of 4 PLS/ acre of Buffalo Grass to .75 PLS/acre of Blue Grama. NRCS rate recommendations are 8 PLS/ acre for Buffalo Grass and 1.5 PLS/acre for Blue Grama.

Blue Grama

Bouteloua gracilis

Blue Grama is a commonly found, warm-season, perennial grass. It is likely the most widespread North American grass, growing on a variety of dry and/or warm upland sites from Mexico to Canada. Blue Grama exhibits a variable growth form in the southern states it grows normally as a bunch grass, but in the northern states and in the mountains, or in areas under heavy grazing pressure, it is a sod former. Narrow, bluish-gray leaf fine blades form a dense clump growing 12 to 15 feet tall. It also has an attractive, unique seed head that resembles a brush or eyelash. It is a popular turf grass, widely used for pasture and range, and erosion control. Low maintenance and drought-resistance qualities are what make it so popular. State grass of Colorado and New Mexico.

Lifespan: perennial

Season: warm

Uses: excellent pasture and range, hay, erosion control, turfgrass, general use

Native or Introduced: Native

Annual Average Precipitation: 12 inches

Buffalograss

Bouteloua dactyloides

Buffalograss is a perennial, warm-season sod forming grass that is native east of the Rocky Mountains and west of the Mississippi River. Grows up to 4 feet tall, and can sprawl 4 feet wide, forming a dense, matted turf. Has fine, grayish-green leaves. Dominant species of the shortgrass prairie, and upland sites on the Great Plains. Used for pasture, forage, and erosion control. It is also widely used as an attractive, low maintenance turf.

Lifespan: perennial

Season: warm

Uses: landscaping, erosion control, grazing

Native or Introduced: Native

Annual Average Precipitation: 10 inches

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6.4.5 EXHIBIT E - Reclamation Plan

4. Rule 6.4.5 (f (v)) requires an anticipated minimum depth for topsoil. Please specify the depth of the topsoil to be laid down during reclamation.

Recommendation for the reseeding of the area is 4" of topsoil to be replaced.

5. Please provide details on the reclamation of the external haul road.

Reclamation of the haul route is included in original filing for M-1978-080. the haul route location and size will not change in this conversion.

6. As the mine proceeds south it appears several small ephemeral drainages will be effected. Please explain what erosion and sediment control measures will be used to prevent off-site sedimentation from occurring in accordance with Rule 3.1.6(3) and Rule 6.4.5(2)(c).

The final topography of the mining area will follow the current natural drainage. The sand and gravel makeup of the soils will readily accept the minimal rainfall in the area. If runoff does appear, berms will be built and used to stop any sediment from leaving the mining area.

6.4.10 EXHIBIT J - Vegetation Information

7. Rule 6.4.10 (1 (c)) states "estimates of average annual production for hay meadows and croplands, and carrying capacity for range lands on or in the vicinity of the affected land, if the choice of reclamation is for range or agriculture". Please submit the required information.

Estimated yield for range land is one animal unit per 20 acres given the sparse natural vegetation in the area.