

## REVEGETATION SPECIFICATIONS

### DESCRIPTION

This specification covers preparing the areas for seeding, furnishing seed, furnishing fertilizers, mulch and/or mulch stabilizers on all areas disturbed by the CONTRACTOR during project work or areas designated in the Special Conditions to be revegetated. The CONTRACTOR is responsible for revegetating all areas disturbed during reclamation.

### MATERIALS

#### **Seed**

All seed shall conform to the current rules and regulations of the State of Colorado and the U.S. Department of Agriculture. Unless exception is granted by the PROJECT MANAGER, seed shall be thoroughly pre-mixed in the required proportions and delivered to the work site in bags or containers clearly tagged showing the name and address of the supplier, the net weight of each species of seed in the mix, the percent of weed seed content, and the guaranteed percentage of purity and germination for each species furnished. The CONTRACTOR shall give the tags to the PROJECT MANAGER. The CONTRACTOR shall furnish a signed statement certifying that the seed furnished is from a lot that has been tested by a recognized laboratory for seed testing within nine months prior to the date of delivery to the job site.

#### **Fertilizers**

Commercial Fertilizer. Fertilizers shall be commercial grade diammonium phosphate (18-46-0) and free flowing, suitable for application with hydraulic- or pneumatic-type equipment or fertilizer spreaders and conforming to applicable Colorado State Fertilizer laws. Caked or lumpy fertilizer will not be accepted. The CONTRACTOR shall furnish a supplier's certificate of analysis and weight. All fertilizer shall be in a form readily available to plants. Commercial fertilizer shall be applied at the rate of 300 pounds per acre.

#### **Mulches**

Mulch shall consist of hay or straw mulch, pest-free and certified weed-free. Approximately 30 percent by weight of the mulch material shall be ten inches (10") in length or longer. Rotted, caked, decayed or moldy material will not be accepted. Hay or straw mulch shall be applied uniformly at the rate of two (2) tons per acre.

### EXECUTION

The CONTRACTOR shall give the PROJECT MANAGER at least two (2) days notice of the time and place of starting his revegetation operations and shall continue to advise as to the schedule of operations. Revegetation may take place at the completion of work at an individual opening if the CONTRACTOR so desires.

#### **Fertilizers**

Immediately prior to seedbed preparation, fertilizer shall be uniformly applied over the areas designated for seeding and immediately incorporated into the soil by tilling methods as discussed below. Commercial fertilizer shall be applied at the rate of 300 pounds per acre

#### **Seedbed Preparation**

The seedbed shall be firm. Trash, weeds and other debris that will interfere with seeding operations shall be removed or disposed of as approved by the PROJECT MANAGER.

The seedbed shall be adequately loosened (four to six inches (4" to 6") deep) and smoothed. Chiseling, disking, harrowing or cultipacking may be required. Work shall be done on the contour where practicable.

Seedbed preparation shall be suspended when soil moisture conditions are not suitable for the preparation of a satisfactory seedbed as determined by the PROJECT MANAGER.

**Seeding**

The designated seed mixture shall be sown uniformly on the prepared areas. Seeding shall not be done if the ground is frozen. Some areas, such as rock outcrops, etc., within the work limits may not be designated to be seeded.

Broadcast Seeding. Seeding shall be performed using hand-operated or machine seeders whereby dry seed shall be applied in prescribed quantities uniformly on specified areas. Broadcast seeding shall be used where drill seeding is not practicable, or where the area to be seeded is less than one acre, or may be used at the Contractor’s option. Broadcast seed shall be covered about one-quarter (1/4) to one-half (1/2) inch deep by flexible-tine harrowing or a similar method acceptable to the PROJECT MANAGER. One to two operations may be required to obtain adequate coverage as specified by the PROJECT MANAGER.

**Seed Mixtures**

The CONTRACTOR is required to supply the seed specified below. :

| <u>Species</u>                  | <u>Scientific Name</u> | <u>Variety pls lbs/Acre</u> |     |
|---------------------------------|------------------------|-----------------------------|-----|
| yarrow                          | Achillea lanulosa      |                             | .2  |
| Rocky Mt. Penstemon             | Penstemon strictus     | Bandera                     | .5  |
| Western wheatgrass              | Pascopyrum smithii     | Arriba                      | 2.5 |
| Slender wheatgrass              | Elymus trachycaulus    | San Luis                    | 2.5 |
| Mtn. Brome                      | Bromus marginatus      | Bromar                      | 3   |
| Arizona fescue                  | Festuca arizonica      | Redondo                     | 2.5 |
| Blue grama                      | Bouteloua gracilis     | VNS                         | 2   |
| Indian ricegrass                | Oryzopsis hymenoides   | Nezpar                      | 2   |
| Canby bluegrass                 | Poa canbyi             | Canbar                      | 0.5 |
| Sand dropseed                   | Sporobolus cryptandrus |                             | 0.3 |
| Green needlegrass               | Stipa viridula         | Lodorm                      | 2.0 |
| TOTAL pls lbs./acre (broadcast) |                        |                             | 18  |