

Revegetation Plan – Dahlia North Resources Pit Reclamation

After completion of backfilling operations, areas for reclamation will be graded and shaped for revegetation and the final grade for drainage. The following revegetation procedures are anticipated but may be modified as conditions dictate:

- Grass seed will typically be planted in unfrozen soil between October 1 and April 30.
- Grass seed will be planted with a grass drill, or where necessary, with a broadcast seeder at double the drill seeding rate.
- The seed mixes and application rates in pounds of pure live seed per acre are listed below.

An upland seed mixture is planned, as backfilling of the site will increase the depth to groundwater (from the new higher surface elevation) that may be required for establishment of riparian species although riparian and/or wetland species may establish on their own over time, after upland species establish in the interim.

The seed mixture below was selected through the City of Commerce City's Erosion and Sediment Control standards (attached to the Erosion and Sediment Control Plan) and will be applied to the final backfilled pit surface. The ground surface will be fine graded prior to seeding. Other areas disturbed as part of construction operations will also be seeded.

Upland grass seed will be planted with a drill equipped with depth bands and press wheels. The seeded areas will then be covered with straw mulch at a rate of 2,000 pounds per acre. The straw will be crimped into the soil to control erosion until the grass becomes established. As an alternative, hydroseeding and hydromulching may be used to apply seed (at double the drill rate) and mulch.

Permanent Drill Seeding Mix

Notes:

Species	Variety	Notes	% in Mix	Pounds of PLS per Acre
Big Bluestem	Kaw	PNWS	10%	1.1
Yellow Indiangrass	Cheyenne	PNWS	10%	1
Switchgrass	Blackwell	PNWS	10%	0.4
Sideoats Grama	Vaughn	PNWB	10%	0.9
Western Wheatgrass	Arriba	PNCS	10%	1.6
Blue Grama	Hachita	PNWB	10%	0.3
Thickspike Wheatgrass	Critana	PNCS	10%	1
Prairie Sandreed Green	Goshen	PNWS	10%	0.7
Needlegrass	Lodorm	PNCB	10%	1
Slender Wheatgrass	Pryor	PNCB	5%	0.6
Streambank Wheatgrass	Sodar	PNCS	5%	0.6
Total lbs/ac			100%	9.2

1. Pure Live Seed pounds per acre; rates shown are for drill seeding; double rates for broadcast seeding.
2. All upland areas will be mulched with 1 ton of certified weed free straw per acre. Mulch shall be applied within 24 hours of seeding and crimped in place.