

September 28, 2022

Attn: Mr. Patrick Lennberg, Environmental Reclamation Specialist
Colorado Division of Reclamation, Mining and Safety
Room 215,
1001 E. 62nd Avenue,
Denver, CO 80216

Re. Technical Revision Request to revise the approved seed mix, File No. M1986-015

CERTIFIED MAIL NO. _____

Dear Mr. Lennberg,

Enclosed with this letter is a request to revise the existing seed mix for one which is more compatible with the existing site conditions. The existing seed mix is:

Table 1: Approved Seed Mix:

Species	Best on soil types (C L)	(5)Annual Avg. Precip. 12.9 "	Alkali Soil	Expected performance	Variety
Big bluestem	Any	12+	Low	Marginal	-
Blue grama	Any	8+	Ok	Ok	-
Pubescent wheatgrass	Any	12+	Moderate	Marginal	Luna
Little bluestem	Any	10+	Ok	Ok	Cimmaron or Pastura
Streambank wheatgrass	S – C	8+	?	Ok	Sodar
Western wheatgrass	Si - C	8+	Ok	Ok	Ariba or Barton
Sideoats grama	Any	6+	Ok	Ok	Vaughn
Buffalo grass	L - C	10+	Ok	Ok	-
Galleta grass	S -G	5+	Ok	Marginal	Viva
Sand dropseed	S - Si	8+	Low	Ok	-
Alkali sacaton	Any	5+	High	Ok	-
Total:					

The revised mix is suited to the Pueblo East Pit site conditions. It was taken from the seed mix for Grisenti Farms Gravel Pit. The Grisenti Farms Pit seed mix seems to be performing well. The Grisenti seed mix includes alfalfa and scarlet globe mallow. We left these two species out since

they have deep tap roots and not suited to use with liners. In addition, the intent of the revised seed mix is to help stabilize the Pueblo East mine site. It has a post mining land use of water storage reservoir and not rangeland or wildlife habitat.

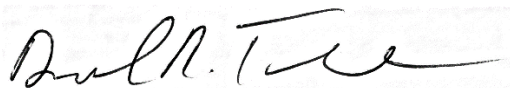
Table 2: Replacement Seed Mix for the Pueblo East Pit, Drill Seed, TR-01:

Species	Best on soil types (CL)	(5)Annual Avg. Precip. 12.	Alkali Soil	Expected performance	Variety	PLS lbs./Acre
Crested wheatgrass	Any	9+	Moderate	Ok	Hycrest II	2.0
Pubescent wheatgrass	Any	15+	Moderate	Marginal	Manska	2.0
Bluebunch wheatgrass	Any	8+	Ok	Ok	Secar	2.0
Russian wildrye	Si, C	8+	Ok	Ok	Select	2.5
Thickspike wheatgrass	S, Si	8+	Ok	Ok	Sodar	2.5
Tall wheatgrass	Any	14+	Ok	Marginal	Jose	3.0
Total:						14.0

1. G = Gravelly, S = sand, Si = silt, C = clay, L = loam
2. The species labeled as “Marginal” are included for higher soil moisture location.
3. Under “Annual Avg. Precip.”, the number in the species row is the lower end of the precipitation range for the species.

Note, we are submitting a request for an acreage reduction along with three new maps. One of the new maps is a revised reclamation plan map which excludes the Amendment 7 area. This area was never mined. The new map includes the proposed revised seed mix.

Thank you for your help in revising our seed mix to better meet the site’s future land use.



Mr. Daniel R. Tucker, P.E
Water Resource Eng.
Arkansas Groundwater and Reservoir Assn.

Enc: Request for Technical Revision – Permit File No. 1986-015



COLORADO DIVISION OF RECLAMATION, MINING AND SAFETY

1313 Sherman Street, Room 215, Denver, Colorado 80203 ph(303) 866-3567

REQUEST FOR TECHNICAL REVISION (TR) COVER SHEET

File No.: M- 1986-015 Site Name: Pueblo East Pit

County Pueblo TR# _____ (DRMS Use only)

Permittee: Arkansas Groundwater and Reservoir Association

Operator (If Other than Permittee): _____

Permittee Representative: Daniel Tucker

Please provide a brief description of the proposed revision: _____

Revision to the approved seed mix for a mix that is better adapted to the site conditions.

(Please see the attached cover letter.)

As defined by the Minerals Rules, a Technical Revision (TR) is: "a change in the permit or application which does not have more than a minor effect upon the approved or proposed Reclamation or Environmental Protection Plan." The Division is charged with determining if the revision as submitted meets this definition. If the Division determines that the proposed revision is beyond the scope of a TR, the Division may require the submittal of a permit amendment to make the required or desired changes to the permit.

The request for a TR is not considered "filed for review" until the appropriate fee is received by the Division (as listed below by permit type). Please submit the appropriate fee with your request to expedite the review process. After the TR is submitted with the appropriate fee, the Division will determine if it is approvable within 30 days. If the Division requires additional information to approve a TR, you will be notified of specific deficiencies that will need to be addressed. If at the end of the 30 day review period there are still outstanding deficiencies, the Division must deny the TR unless the permittee requests additional time, in writing, to provide the required information.

There is no pre-defined format for the submittal of a TR; however, it is up to the permittee to provide sufficient information to the Division to approve the TR request, including updated mining and reclamation plan maps that accurately depict the changes proposed in the requested TR.

Required Fees for Technical Revision by Permit Type - Please mark the correct fee and submit it with your request for a Technical Revision.

<u>Permit Type</u>	<u>Required TR Fee</u>	<u>Submitted</u> (mark only one)
110c, 111, 112 construction materials, and 112 quarries	\$216	<input checked="" type="checkbox"/>
112 hard rock (not DMO)	\$175	<input type="checkbox"/>
110d, 112d(1, 2 or 3)	\$1006	<input type="checkbox"/>