

From: Mann, Ryan
To: ["Kiara Walker"; Yu, Olivia, EMNRD](#)
Cc: [Michael Alves](#); [Courtney Cowan](#); calderman@cimarex.com
Subject: RE: Laguna Deep #7 Work Plan
Date: Wednesday, June 20, 2018 11:51:02 AM
Attachments: BLOW SAND SITES.docx

Good morning,

NMSLO approves of the work plan with the following comments. As stated, delineation will be completed during remediation. The activity is performed at the discretion of the operator, and is not recommended. Sidewall and bottom confirmation samples are required prior to backfill. Also, there are multiple seed mix variations floating around, so im not sure what BLM #1 you are using. I think BLM #1 is for loamy soil sites, the site is in sandy habitat. I have attached a mix better suited for the area. It contains the same as the loamy mix as well as some additional grasses and forbs that grow in sandy soils and will aid in revegetation. Also, please be aware the site is has been identified as CCAA habitat. Approval from NMOCD is also required.

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From: Kiara Walker [mailto:kwalker@diversifiedfsi.com]
Sent: Tuesday, June 19, 2018 8:44 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Mann, Ryan <rmann@slo.state.nm.us>
Cc: Michael Alves <malves@diversifiedfsi.com>; Courtney Cowan <CCowan@diversifiedfsi.com>; calderman@cimarex.com
Subject: Laguna Deep #7 Work Plan

Please see attachment for revised work plan. If you have any questions or concerns please contact Michael Alves. Thank you! ☺

Have a wonderful and blessed day !!

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1.1 BLOW SAND SITES REVEGETATION PLAN (BS)

Use this Revegetation Plan with the following ESD's:

CP2 – Sandy Plains, Sandhills, Deep Sand, Shallow Plains

HP3 – Loamy Sand, Sandy Plains, Sandhills, Deep Sand

SD3 – Loamy Sand, Deep Sand, Sandhills, Salt Meadow

Soil Texture: Fine Sand, Sand, Course Sand

Revegetation Procedures:

I. For flat or gently sloping areas with slopes less than or equal to 3H:1V:

1. **Soil Amendments:** Apply composted manure or similar at the rate of 30.0 air dry tons/acre.
2. **Fertilize:** Type 2
3. **Mulch** – Grass Hay mulch applied at 2.0 tons/acre
4. **Prepare the seedbed and incorporate mulch, fertilizer, and soil amendments:**
 - a. Scarify
 - b. Disc (thoroughly mix mulch, fertilizer, and soil amendments in top 6-8 inches of soil before proceeding).
5. **Drill Seed** – use rangeland drill and apply Drill box seed to 0.5-0.75 inch depth, apply small seed to surface and lightly cover with drag chains or packer wheels or equal.
6. **Mulch** – Grass Hay mulch applied at 2.0 tons/acre
7. **Crimp**
8. **Tackify** – tackify to minimize risk of mulch blowing and to hold soil and mulch in place until vegetation begins to establish.
9. **Wind Fence** – Install wind fence.



DEEP SAND (DS) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sand bluestem	Elida, VNS, So.	4.0	F
Sideoats grama	Vaughn, El Reno	4.0	F
Little bluestem	Cimarron, Pastura	3.0	F
Plains bristlegrass	VNS, Southern	1.0	D
Sand dropseed	VNS, Southern	2.0	S
Blue grama	Lovington	1.0	D
Forbs:			
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Annual Sunflower	VNS, Southern	0.5	D
Prairie Conflower	VNS, Southern	0.5	D
Total PLS/acre		17	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box
VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.



