

July 22, 2019

Lindsey Rider  
EHS Lead  
Caerus Oil and Gas  
143 Diamond Avenue  
Parachute, CO 81635

RE: PL17NE Well Pad Final Reclamation Status

Dear Lindsey,

Per your request, WestWater biologists have completed vegetation monitoring for the above referenced reclaimed location. We utilized the Bureau of Land Management's (BLM) Assessment, Inventory, and Monitoring (AIM) strategy for data collection and the resulting data has been entered into the Database for Inventory, Monitoring and Assessment (DIMA). In addition to monitoring the reclaimed area we selected and inventoried a reference site for this location.

Attached you will find the results summary and photos of the reclaim and reference areas. Based on the information we collected this year and our understanding of BLM and Colorado Oil & Gas Conservation Commission (COGCC) final reclamation requirements this site meets the 80% reference criteria for Final Abandonment Notice.

If there is any additional information we can provide or clarify please contact me.

Sincerely,



Environmental Scientist/Project Manager

Percent Cover Summary Table		
	Reference Site	Reclaim Site
% Foliar Cover	142.0	150.7
% Basal Cover	0.0	0.0
% Bare ground	0.0	0.0
% Desirable Foliar Cover	90.0	103.4
% Desirable of Reference Site		114.8
80% Desirable of Reference?	Site meets 80% of reference criteria.	
*Percent Foliar Cover represents all points hit along transect of specific species including lower canopy layers; thus, in some cases percent foliar cover can exceed 100%.		

Final Reclamation Site Percent Foliar Cover by Species		
Caerus Oil and Gas		
Location:	PL17NE	
Date:	7/11/2019	
Plot:	Final Reclamation	
Scientific Name	Common Name	Foliar Cover
Graminoids		
<b>Bromus inermis</b>	smooth brome	<b>32.0</b>
Bromus tectorum	cheatgrass	0.7
Poa bulbosa	bulbous bluegrass	1.3
<b>Psathyrostachys juncea</b>	<b>Russian wildrye</b>	<b>0.7</b>
<b>Thinopyrum intermedium</b>	<b>intermediate wheatgrass</b>	<b>10.7</b>
Grass cover subtotal		45.4
Desirable grass cover subtotal		<b>11.4</b>
Forbs/Succulents		
Alyssum desertorum	desert madwort	4.7
Chorispota tenella	crossflower	1.3
<b>Convolvulus arvensis</b>	<b>field bindweed</b>	<b>5.3</b>
Erodium cicutarium	redstem stork's bill	7.3
<b>Medicago sativa</b>	<b>alfalfa</b>	<b>86.7</b>
Forb cover subtotal		105.3
Desirable forb cover subtotal		<b>92</b>
Shrubs		
Shrub cover subtotal		0.0
Desirable shrub cover subtotal		
Trees		
Desirable trees cover subtotal		<b>0</b>

**Bold = Desirable Species**

Final Reclamation Site Percent Foliar Cover by Species		
Caerus Oil and Gas		
Location:	PL17NE	
Date:	7/11/2019	
Plot:	Reference	
Scientific Name	Common Name	Foliar Cover
Graminoids		
<b>Bromus inermis</b>	smooth brome	82.0
<b>Poa pratensis</b>	Kentucky bluegrass	4.0
Grass cover subtotal		86.0
Desirable grass cover subtotal		86.0
Forbs/Succulents		
Convolvulus arvensis	field bindweed	50.0
Lepidium perfoliatum	clasping pepperweed	2.0
<b>Medicago sativa</b>	alfalfa	4.0
Forb cover subtotal		56.0
Desirable forb cover subtotal		4
Shrubs		
Shrub cover subtotal		0.0
Desirable shrub cover subtotal		
Trees		
Desirable trees cover subtotal		
Bold = Desirable Species		



Reclaim Transect 1



Reclaim Transect 2



Reclaim Transect 3



Reference Transect



