

Petroglyph Energy, Inc.
Well Pad Final Reclamation Evaluation

Well Name: Martinez 07-10

Evaluation Date: July 14, 2015

Evaluated by: Wayne Erickson, Principal Scientist, Habitat Management, Inc.

Current Condition

Martinez 07-10 has low establishment of desirable vegetation throughout the site. A number of native annual and biennial plants are growing prolifically across the well pad. The establishing reclaimed plant community has a low diversity of graminoids, forbs, sub-shrubs and shrubs. A noxious weed infestation on the northwest half of the well pad is adversely impacting perennial plant establishment.

Cheatgrass (*Bromus tectorum*) is the one noxious weed presently growing on this site. The cheatgrass infestation is adversely impacting the establishment and growth of desirable plant species in the reclaimed plant community primarily in the northwest quadrant, although it is found throughout the site at lesser levels of infestation.

Cheatgrass is on the Colorado List C. Control of this List C species is recommended but not required by Huerfano County. Please note that COGCC requires control of this List C species when it is adversely impacting the establishment of desired perennial plant species.

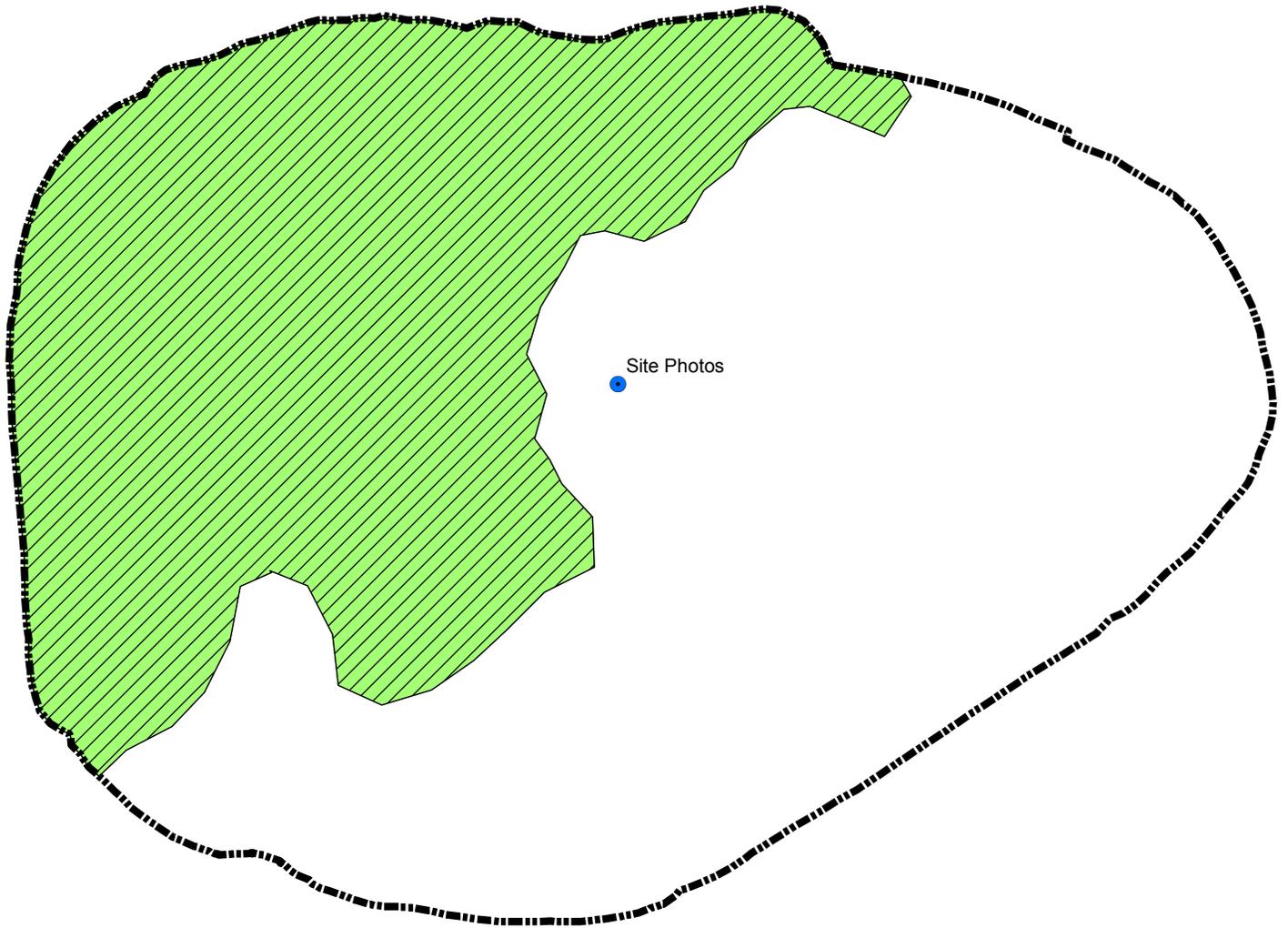
Compacted soils are not affecting plant growth on this site. Excessive soil erosion associated with storm water runoff was not observed.

Recommended Actions

Cheatgrass should be treated in the late summer or early fall with an appropriate germination inhibiting herbicide. Appropriate fall herbicide treatments of this plant species will reduce seed production and inter-plant competition in 2016 and facilitate the establishment of desirable perennial plant species. Long-term cultural control of this weed species will be realized through competition, with the establishment of desirable vegetation on the site.

In the spring of 2016, the northwest quadrant of this pad should be inter-seeded with the approved seed mixture. Following inter-seeding, the areas should be raked and then mulched. Woodstraw is preferred for mulching the inter-seeded area, although native hay or cereal grain straw could be used.

After spring 2016 management activities are completed the site should be checked periodically for germination and establishment of desirable plant species in the inter-seeded areas, adequate control of existing weed infestations, new infestations of other noxious weed species, and for other conditions that may impact successful reclamation of this site.



Management Activity	Acres
Mowing	0.58
Seeding	0.58

 Mow
 Photo Point
 Interseed
 Well Pad Boundary



Petroglyph Energy 2015

Martinez 07-10



Evaluated: 7/16/15
Drawn: 12/14/15
Drawn By: RFB

Martinez 07-10



Looking East

Photo Date 7/14/2015

Lat: 37.5343131361 Long: -104.8209253775



Looking North

Photo Date 7/14/2015

Lat: 37.5343131361 Long: -104.8209253775



Looking South

Photo Date 7/14/2015

Lat: 37.5343131361 Long: -104.8209253775



Looking West

Photo Date 7/14/2015

Lat: 37.5343131361 Long: -104.8209253775



Weedy annual vegetation

Photo Date 7/14/2015

Lat: Long: