

Petroglyph Energy, Inc.
Well Pad Final Reclamation Evaluation

Well Name: Martinez 07-14

Evaluation Date: July 14, 2015

Evaluated by: Lindsey Brandt; Senior Environmental Scientist; Habitat Management, Inc.

Current Condition

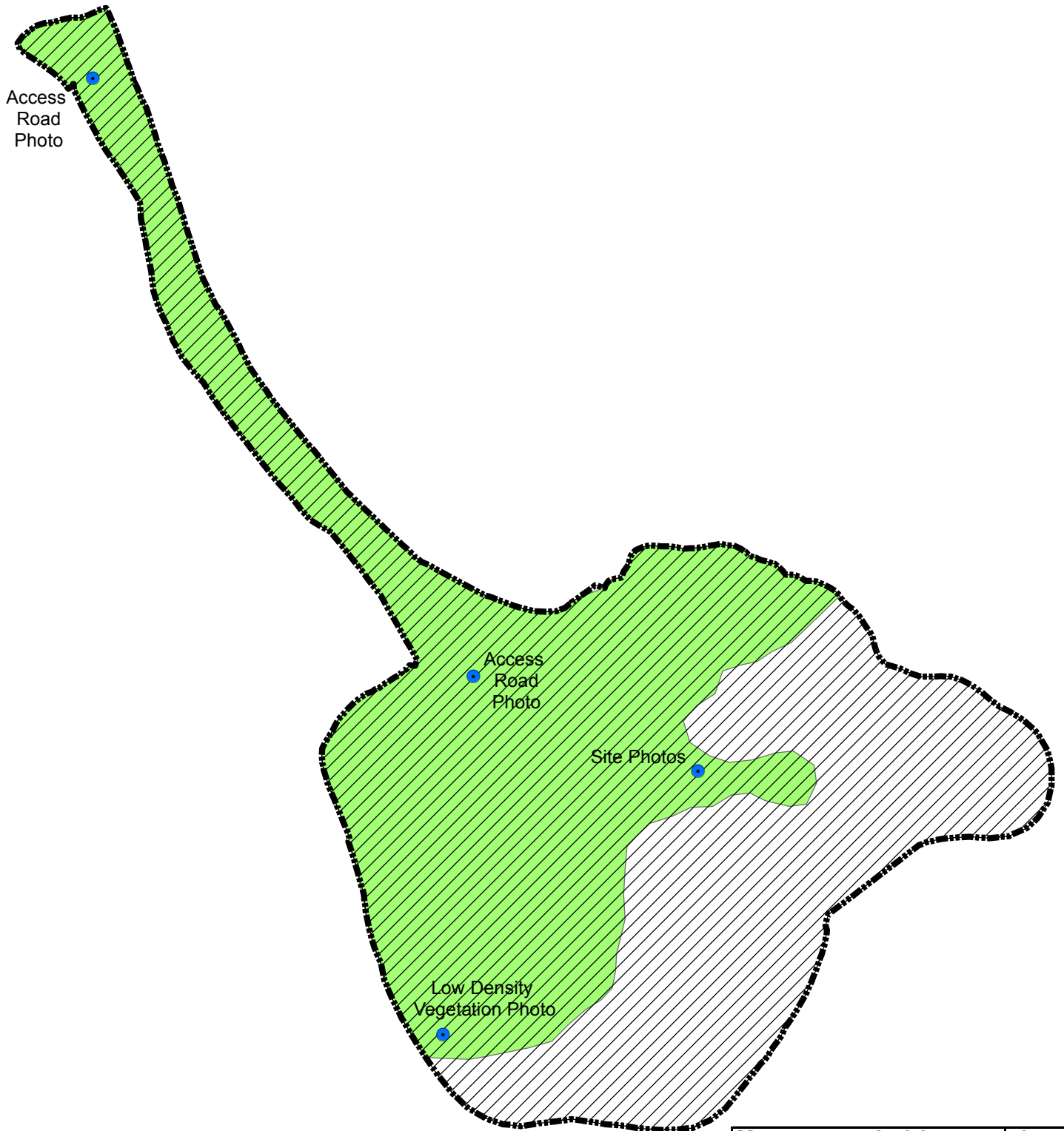
Vegetation on the Martinez 07-14 pad is generally well established including perennial grasses with vegetation cover typical for the region. However, the southeast half of the pad is rather sparse with few desirable species and a heavy cheatgrass infestation (*Bromus tectorum*). The aggressive nature of cheatgrass combined with its early germination and growth compared to native species enables the cheatgrass to be a limiting factor in the establishment and persistence of desirable vegetation on the pad. The access road is also somewhat sparse of desirable vegetation.

Recommended Actions

The main issue on this pad is the cheatgrass infestation, as desirable vegetation is established in several areas. The entire well pad should be treated in the fall of 2015 to minimize the cheatgrass infestation. Prior to herbicide application the site should be mowed to remove the standing dead annual vegetation and allow for effective soil contact of herbicides. A pre-emergent herbicide should be applied to prevent germination of this winter annual.

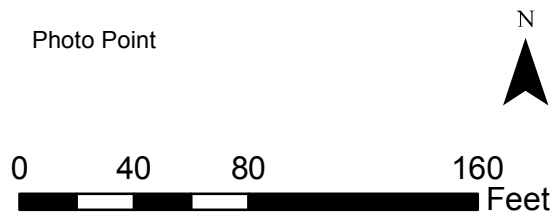
Finally, areas of poor vegetation establishment indicated on the attached map should be reseeded using a no-till drill or harrow and broadcast method. The approved seed mix should be used at the approved target rate. Seeding can occur any time from late fall to early spring, as ground conditions allow.

After management activities are completed the site should be checked periodically to verify germination of newly seeded areas, for infestations of other noxious weeds, and for other issues that may arise and impact the reclamation area.



Management Activity	Acres
Weed Management	1.58
Harrow & Seed	0.95

- Weed Management
- Harrow + Seed
- Well Pad Boundary
- Photo Point



Petroglyph Energy 2015

Martinez 07-14



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

Martinez 07-14



Access road

Photo Date 7/14/2015

Lat: 37.531392922 Long: -104.8266058883



Access road start

Photo Date 7/14/2015

Lat: 37.532168706 Long: -104.8272231458



Looking East

Photo Date 7/14/2015

Lat: 37.531269734 Long: -104.8262413052



Looking North

Photo Date 7/14/2015

Lat: 37.531269734 Long: -104.8262413052



Looking South

Photo Date 7/14/2015

Lat: 37.531269734 Long: -104.8262413052



Looking West

Photo Date 7/14/2015

Lat: 37.531269734 Long: -104.8262413052



Low vegetation density

Photo Date 7/14/2015

Lat: 37.5309296581 Long: -104.8266563174



Low vegetation density

Photo Date 7/14/2015

Lat: Long: