

**VEGETATION MONITORING
BP AMERICA PRODUCTION CO**

Monitoring Site: **Leroy McCaw B#1 Release**
 Lat 37.179638 Long -107.719044
 SWNE Sec 21 T34N R8W, NMPM, La Plata County, Colorado
 Release Number: 325804

Vegetation monitoring was conducted on May 3, 2019, at the Leroy McCaw B#1 Release site.

Cottonwood staff biologists surveyed three 100-foot transects to assess species presence and general plant vigor. Dominant species in the plant community at this site include cattail (*Typha latifolia*) and smooth brome (*Bromus inermis*) as well as pinyon pine (*Pinus edulis*), Utah juniper (*Juniperus osteosperma*), big sagebrush (*Artemisia tridentata*), and western wheatgrass (*Pascopyrum smithii*) in adjacent areas. Transect locations, vigor, and species observed are provided in Table 1 and photographs of site location and transects are provided in the Photo Log.

Table 1. May 2019 Vegetation Monitoring Results

Transect	Azimuth	Vigor	Species Observed
1 37.179990/ -107.718436	166°	Grasses- Not stressed Forbs- Not stressed Shrubs- NA	Smooth brome, sand dropseed (<i>Sporobolus cryptandrus</i>), red-stem stork's bill (<i>Erodium cicutarium</i>), field bindweed (<i>Convolvulus arvensis</i>), dandelion (<i>Taraxacum officinale</i>), claspig pepperweed (<i>Lepidium perfoliatum</i>), and an unknown basal forb
2 37.179613/ -107.718525	187°	Grasses- Not stressed Forbs- Not stressed Shrubs- NA	Cattail, Canada thistle (<i>Cirsium arvense</i>), gumweed (<i>Grindelia</i> sp.), and an unknown basal forb
3 37.179187/ -107.718863	180°	Grasses- Not stressed Forbs- Not stressed Shrubs- Not stressed	Carex (<i>Carex</i> sp.), yarrow (<i>Achillea millefolium</i>), smooth brome, cattail, dandelion, big sagebrush, and an unknown forb

Results:

Species diversity and abundance were consistent with seasonal conditions. No stressed vegetation was observed along the length of the surveyed area. Transect 1 was located within a grazed horse pasture.

PHOTO LOG



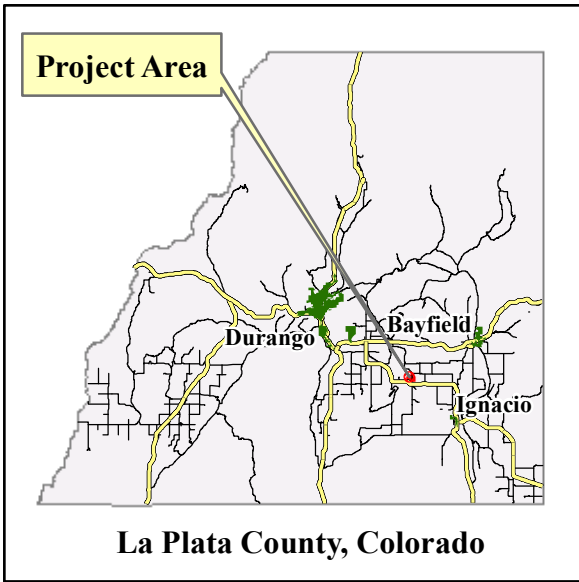
Photo 1. Transect 1 looking south.







Photo 2. Transect 2 looking southwest.



Photo 3. Transect 3 looking south-southwest.



Legend

-  Oil & Gas Well
-  Point of Release
-  Wet Area Mapped 4/2/19
-  Vegetation Transects

Location: SWNE Sec 21 T34N R8W, NMPM



Mapping by: H. Ertl, 5/7/19
 Coordinate System:
 NAD 1983 UTM Zone 13 N

Leroy McCaw B #1
May 2019
Vegetation Monitoring Map
BP America
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