

RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: MEADOWN OVERFLOW D

Reported By: Daniel Boyes

Date: April 11, 2019

| Headgate | Latitude | Longitude |
|-----------|-----------|-------------|
| Location: | 37.431399 | -106.795313 |

Headgate Type: Manually operated 3' wide steel slide gate and pump

| | | | | | |
|----------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---|--|
| Headgate Condition: | A <input type="checkbox"/> | Diversion and other Condition: | A <input type="checkbox"/> | River Miles From New Mexico State Line (Point of Diversion): | Structure Submerged: Yes <input type="checkbox"/> |
| | B <input type="checkbox"/> | | B <input checked="" type="checkbox"/> | | No <input checked="" type="checkbox"/> |
| | C <input checked="" type="checkbox"/> | | C <input type="checkbox"/> | 43.0 mi | |
| | D <input type="checkbox"/> | | D <input type="checkbox"/> | | |
| | F <input type="checkbox"/> | | F <input type="checkbox"/> | | |

Repair(s) or Improvement(s) Completed Since 2006: N/A

Repair(s) or Improvement(s) Currently Needed: The headgate should be repaired or replaced. The lift pump does not function very well for the water user and could be improved. Channel and bank restoration work should be implemented in this reach to reconnect the river with its floodplain and to restore native riparian vegetation. Restoration work would improve the function of the river by slowing and dispersing water during high flow events and improving channel conditions for riparian vegetation recruitment. The flume does not measure accurately and needs to be replaced. Any future improvements should maintain existing boat and fish passage.

Structure Description: A "U-shaped" rock and debris diversion dam directs water to a feeder channel, ~550 ft long, located on the south bank of the river. A sluice gate at the entrance to the feeder channel helps transport sediment downstream. The diversion dam functions well. At the end of the feeder ditch, a small pool has formed and water is pumped out of the river via a permanently installed, metered lift pump. Alternatively, water can be delivered to the ditch via the original headgate, which is adjacent to the lift pump. There is a cutthroat flume just below the headgate. Any flow not pumped or diverted returns to the river via two small culverts leading to a return flow channel.

Comments: This ditch includes priorities 68, 253, and 1959-19.

Notes:

Estimated Range of Cost: Low

Diversion dam and sluice gate



Feeder ditch looking downstream



Pump used for irrigating adjacent field



Headgate looking downstream



Return flow structures



Flume looking downstream



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MEADOW OVERFLOW DITCH

PHOTO LOG

Rio Grande Stream
Management Plan