

RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: MEADOW 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

Structure Description: A U-shaped rock weir diversion dam directs water to a feeder channel, approximately 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 channel, 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 which is in poor condition. Any flow not pumped or diverted returns to the river via two small culverts leading to a return flow channel. The lift pump does not function well for the water user.

Repair(s) or Improvement(s) Currently Needed: The SMP Technical Advisory Team (TAT) recommends repairing the existing headgate or improving the lift pump, replacing the flume, and implementing channel and bank restoration near the diversion to reconnect the river with its floodplain and to restore native riparian vegetation. Headgate replacement or an improved pump would improve ditch function and efficiency and adjacent restoration would improve river function by slowing and dispersing water during high flow events. Channel and bank restoration would enhance riparian vegetation recruitment and reduce erosion.

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

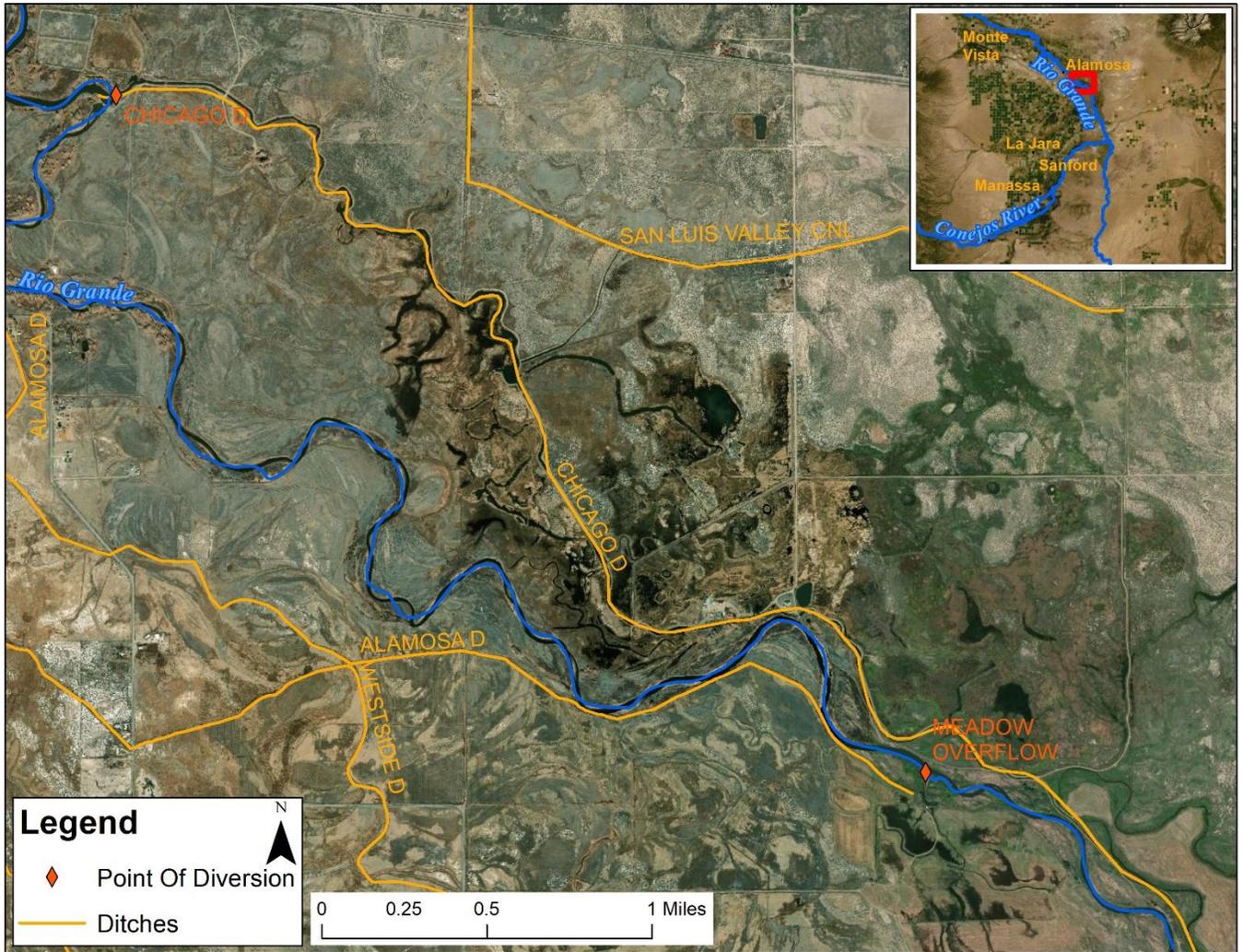


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MEADOW OVERFLOW DITCH

PHOTO LOG

Rio Grande Stream
Management Plan



Meadow Overflow Ditch relative to Chicago Ditch and New Ditch point of diversion.