

RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: HUBBARD D

Reported By: Daniel Boyes

Date: April 1, 2019

Headgate	Latitude	Longitude
Location:	37.617386	-106.17884

Headgate Type: 1.5' wide corrugated metal check board gate

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 checked="" type="checkbox"/>		B <input checked="" type="checkbox"/>	87.1 mi	No <input checked="" type="checkbox"/>	
	C <input type="checkbox"/>		C <input type="checkbox"/>			
	D <input type="checkbox"/>		D <input type="checkbox"/>			
	F <input type="checkbox"/>		F <input type="checkbox"/>			

Repair(s) or Improvement(s) Completed Since 2006: The flume was replaced in 2018.

Structure Description: The channel in this area has shown signs of past avulsion. For example, a meander was cut off between 1975 and 1998. The existing feeder channel follows this historic channel (see map below). A small stacked rock diversion dam on the Rio Grande directs water to a long feeder channel. Approximately 0.25 miles down the feeder channel is a primary headgate and return flow structure. An additional 0.45 miles downstream (a total of approximately 0.7 miles from the diversion dam) is the main headgate. A culvert return flow structure with check boards also serves as a diversion dam for the main headgate.

Repair(s) or Improvement(s) Currently Needed: Sediment and debris accumulation in the feeder channel and headgate are major issues for this ditch. Because a trash rack is not likely to ameliorate this issue, the Technical Advisory Team (TAT) recommends regular debris clearing in the feeder channel and culvert upstream of the headgate. Alternatively, the point of diversion could be relocated downstream to reduce maintenance needs in the feeder channel.

Comments: This ditch is a priority 31.

Notes:

Estimated Range of Cost: Low

Headgate looking downstream



Return flow structure/diversion dam



Headgate outlet



Return channel upstream of headgate



Flume looking downstream



Flume looking upstream

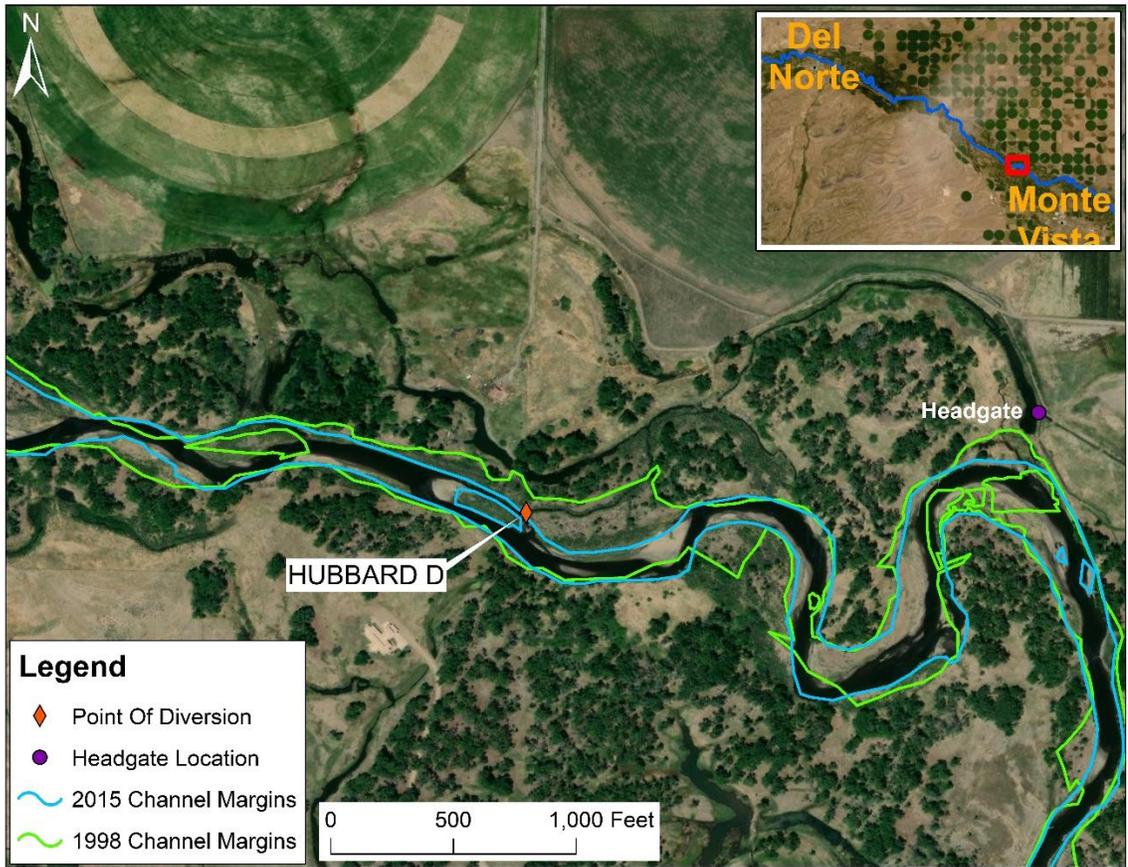


RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

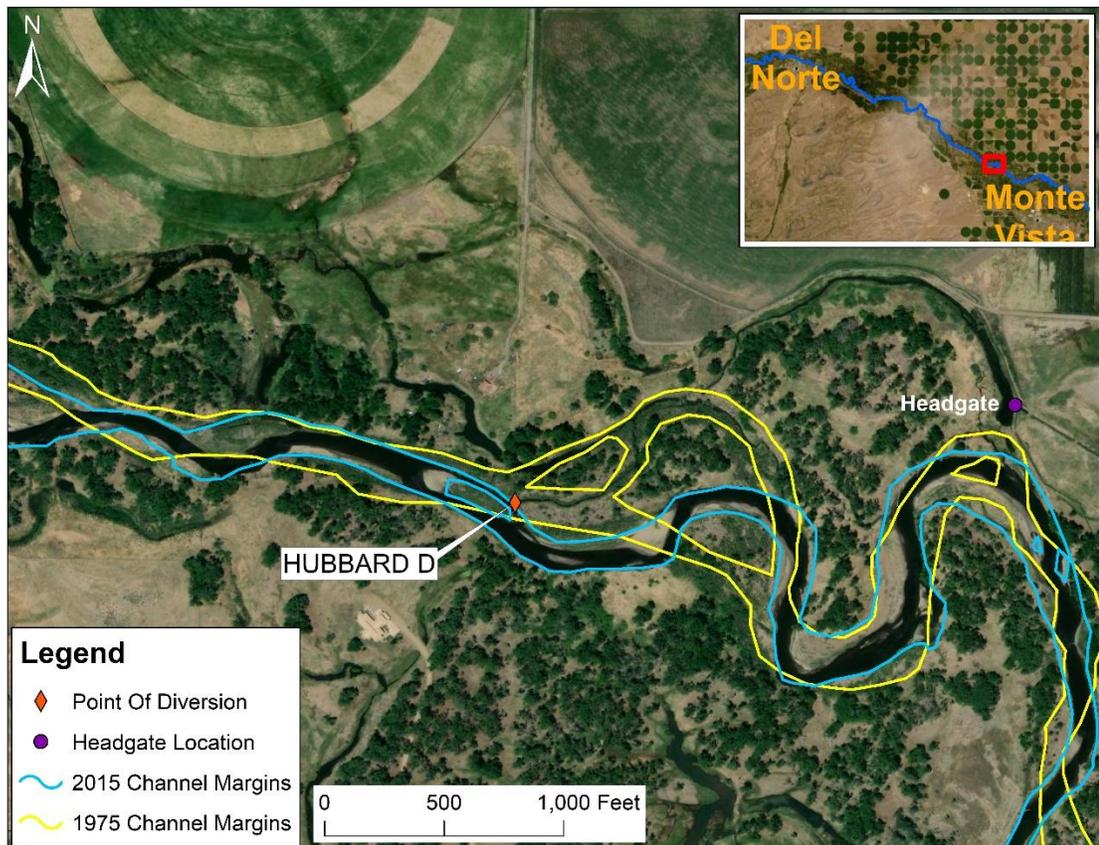
HUBBARD DITCH

PHOTO LOG

Rio Grande Stream
Management Plan



Map of 2015 and 1998 channel margins. A meander was cut off at some point during this time period. The existing feeder ditch follows the historic channel.



Map showing point of diversion and headgate locations for the Hubbard Ditch with 1975 and 2015 channel margins overlaid.