

RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: CONSOLIDATED D

Reported By: Daniel Boyes

Date: April 1, 2019

Headgate	Latitude	Longitude
Location:	37.62963333	-106.22133333

Headgate Type: Manually operated 5' wide steel slide gates (3) and an automated 3' 2" headgate (1)

Headgate Condition:	A <input checked="" type="checkbox"/>	Diversion and Other Condition:	A <input checked="" type="checkbox"/>	River Miles from New Mexico State Line (Point of Diversion):	Structure Submerged: Yes <input type="checkbox"/>
	B <input type="checkbox"/>		B <input type="checkbox"/>	89.38 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: As part of the Five Ditches Project, the headgate and diversion dam were replaced in partnership with the NRCS, RGHRP, and the ditch company. The headgate and trash rack were completed Spring 2018, and the diversion dam structure was completed Spring 2019. They now function well.

Structure Description: Within the last 35 years, the river has migrated significantly in this area, especially upstream of the diversion dam. The two meanders upstream of the diversion have been growing and changing the orientation of the river where it meets the diversion dam. A brand new large concrete diversion dam spans the river and directs water to the headgate. On the south bank of the river, a radial sluice gate was installed that can be adjusted using an air bladder. On the north side of the diversion, a large fish ladder was installed. In the center of the diversion sits an additional adjustable Obermeyer gate. A trash rack is at the entrance to the ditch, with the headgates located just below. This structure allows for boat and fish passage and, after construction was completed, bank and riparian habitat was restored using rock structures and riparian vegetation plantings. This structure serves 8 ditches, including Marajo Ditch, John Anderson Ditch, Star Ditch, Rio Grande San Luis Ditch, Rio Grande Lariat Ditch, Anderson Ditch, Atencio Ditch, and Horner Ydren Ditch.

Repair(s) or Improvement(s) Currently Needed: No issues or needs for improvement were noted at this structure.

Comments: For priorities and decrees, see those for the eight structures mentioned above.

Notes:

Estimated Range of Cost: Low

Headgate looking downstream



Trash rack in front of headgate



Headgate outlet



Diversion dam looking upstream



Fish ladder looking upstream



Gravel bar above diversion dam (summer 2019)

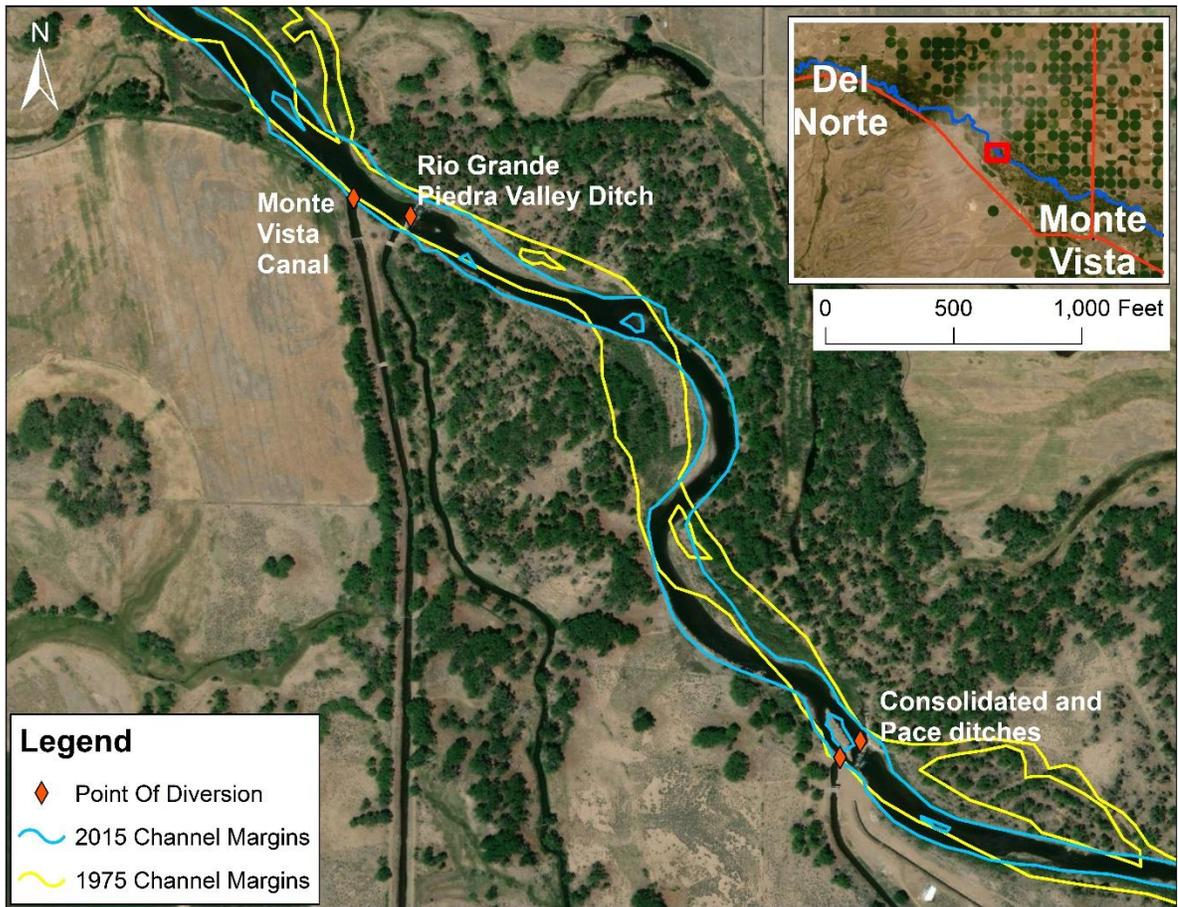


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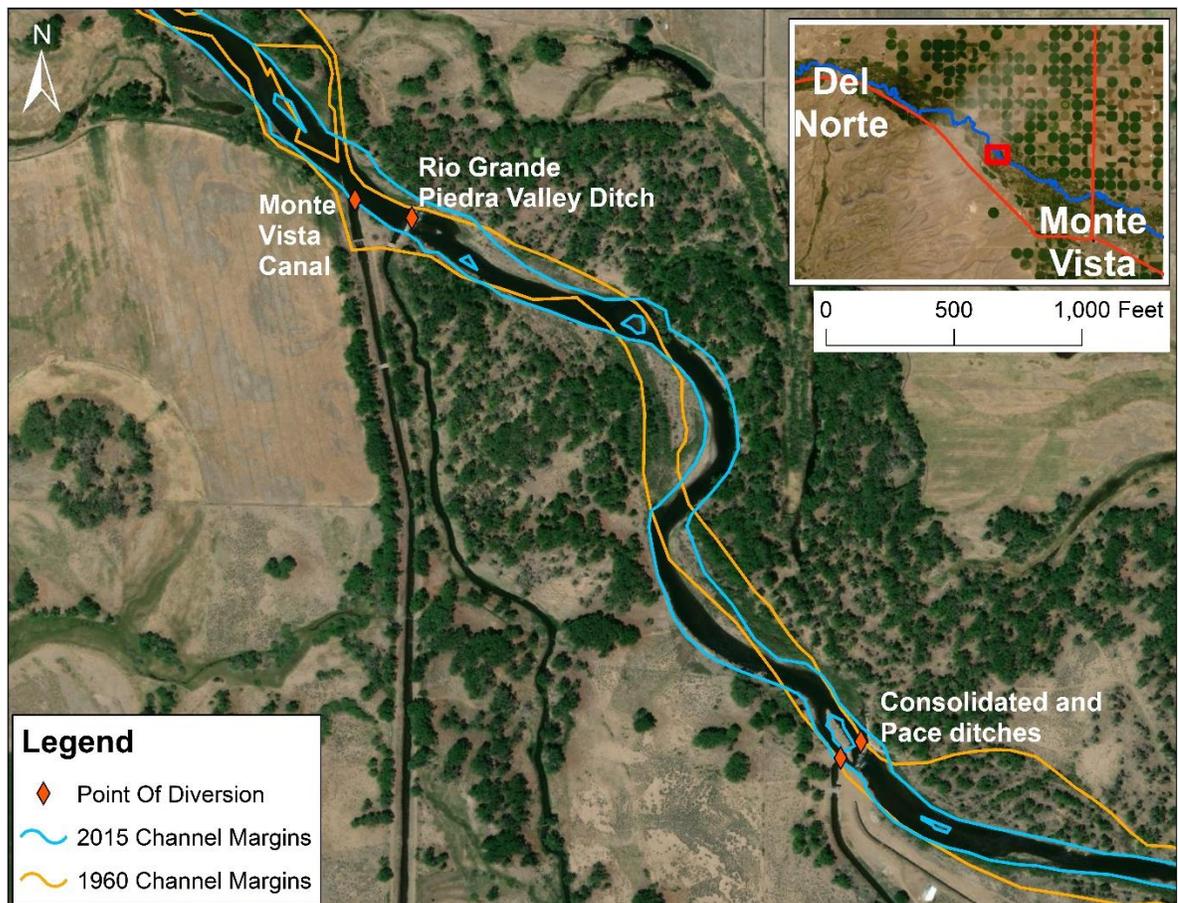
CONSOLIDATED DITCH

PHOTO LOG

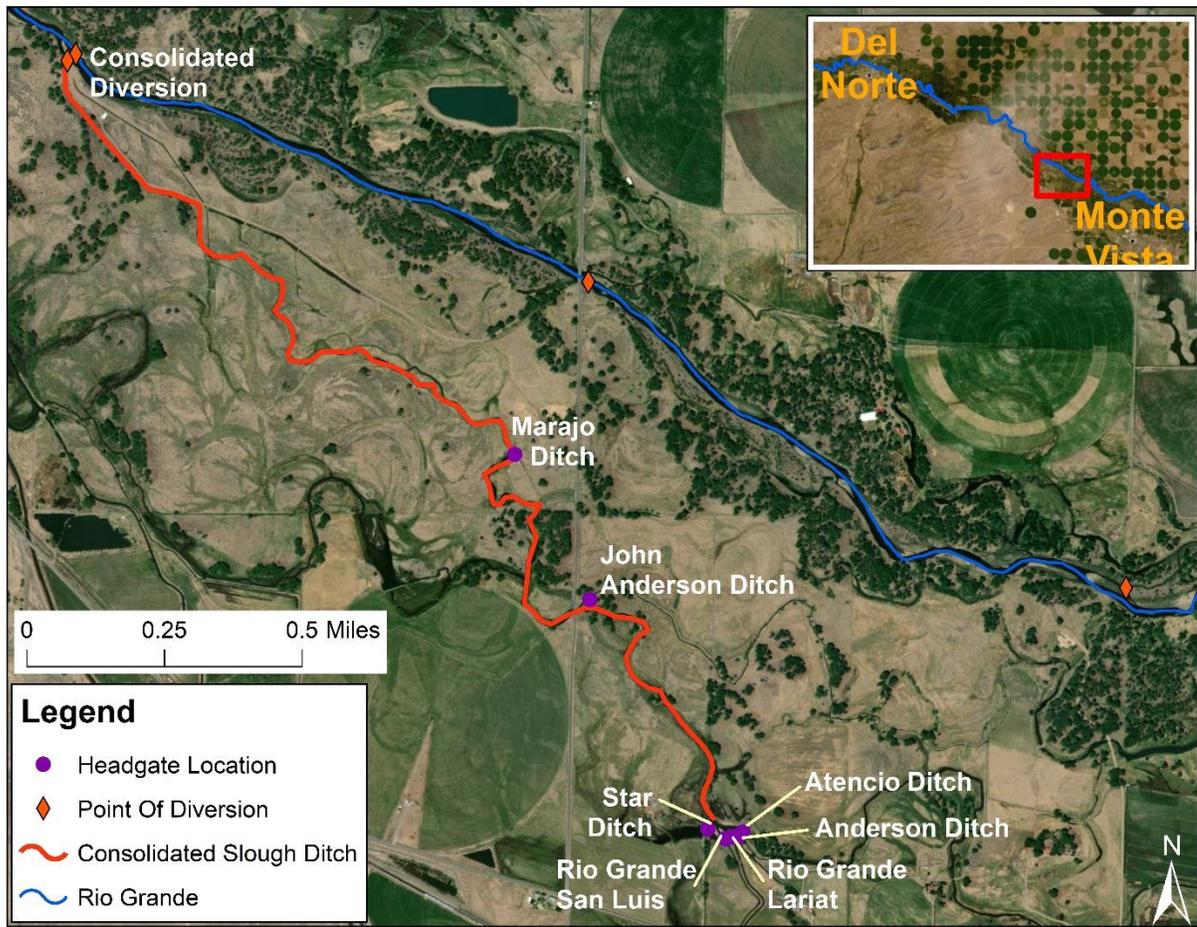
Rio Grande Stream
Management Plan



Consolidated Ditch diversion dam with 1975 and 2015 channel margins overlaid. This map also shows the gravel bar upstream of the diversion (outlined in blue).



Consolidated Ditch diversion dam with 1960 and 2015 channel margins overlaid



Consolidated Ditch diversion and associated ditches