

RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: PRAIRIE DITCH

Reported By: Daniel Boyes

Date: April 9, 2019

Headgate	Latitude	Longitude
Location:	37.64536667	-106.23328333

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 checked="" type="checkbox"/>
	B <input type="checkbox"/>		B <input type="checkbox"/>			No <input type="checkbox"/>
	C <input type="checkbox"/>		C <input type="checkbox"/>			
	D <input type="checkbox"/>		D <input type="checkbox"/>	90.78 mi		
	F <input type="checkbox"/>		F <input type="checkbox"/>			

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

Repair(s) or Improvement(s) Completed Since 2006: A new trash rack, headgate, sluice gate, and diversion dam were recently installed in partnership with the RGHRP, NRCS, and the ditch company as part of the *Prairie Ditch Implementation Project*. The headgates are now automated, the diversion dam is a grouted rock structure, and streambank stabilization structures were also installed near the diversion. The diversion dam structure was completed in Fall/Winter 2015, and the headgate and trash rack were completed Spring 2016. As noted in the 2018 Rio Grande Fish Management Plan, it serves as the upstream fish passage barrier to protect an aboriginal population of Rio Grande Chub near Seven Mile Plaza

Structure Description: A recently installed grouted rock diversion dam diverts water to a short feeder channel with a trash rack at its entrance. The feeder channel delivers water to the headgates, three of which are manually operated and one of which is automated. Adjacent to the headgates is a sluice gate that returns water to the river. The channel is relatively stable in this area, with very little migration occurring. The new trash rack, headgate, sluice gate, and diversion dam were installed in partnership with the RGHRP, NRCS, and the ditch company as part of the *Prairie Ditch Implementation Project*. The diversion dam is now a grouted rock structure and streambank stabilization structures were also installed near the diversion. The diversion dam structure was completed in Fall/Winter 2015, and the headgate and trash rack were completed Spring 2016. The diversion dam forms an important fish barrier between reaches RG10 and RG11. As noted in the 2018 Rio Grande Fish Management Plan, it serves as the upstream fish passage barrier to protect an aboriginal population of Rio Grande chub near Sevenmile Plaza

Repair(s) or Improvement(s) Currently Needed: No immediate repair needs were identified at the time of inspection.

Comments: This ditch includes priorities 11, 297, 308, 328, 353, 1903-17A, 1903-22C, 1903-24E, 1903-30D, 1903-34E, 1903-37D, 1903-41D, 1903-45E, 1903-46E, 1903-49F, 1903-52E, 1903-57D, and 1903-61B.

Notes:

Estimated Range of Cost: Low

Headgate looking downstream



Trash rack and diversion dam



Headgate outlet



Diversion dam looking upstream



Headgates and sluice gate



Flume looking downstream

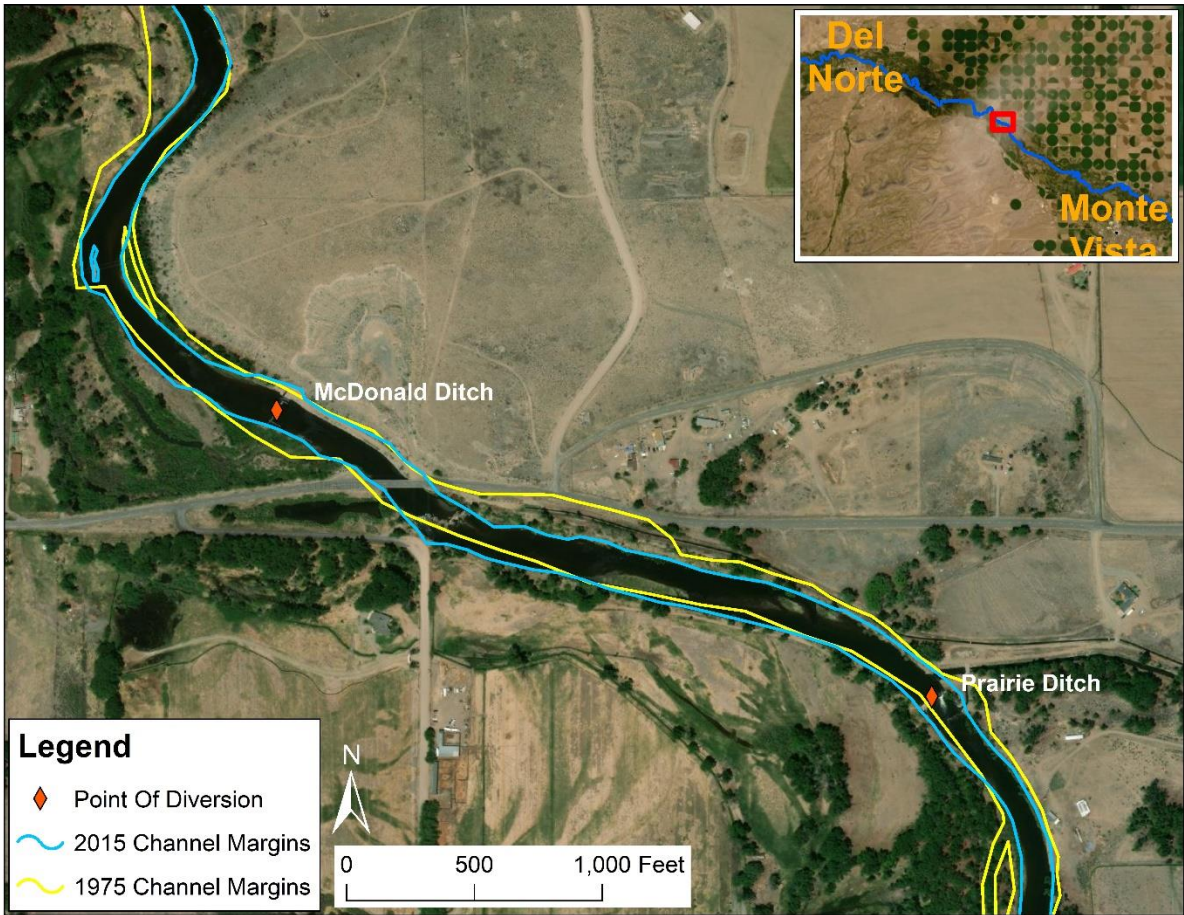


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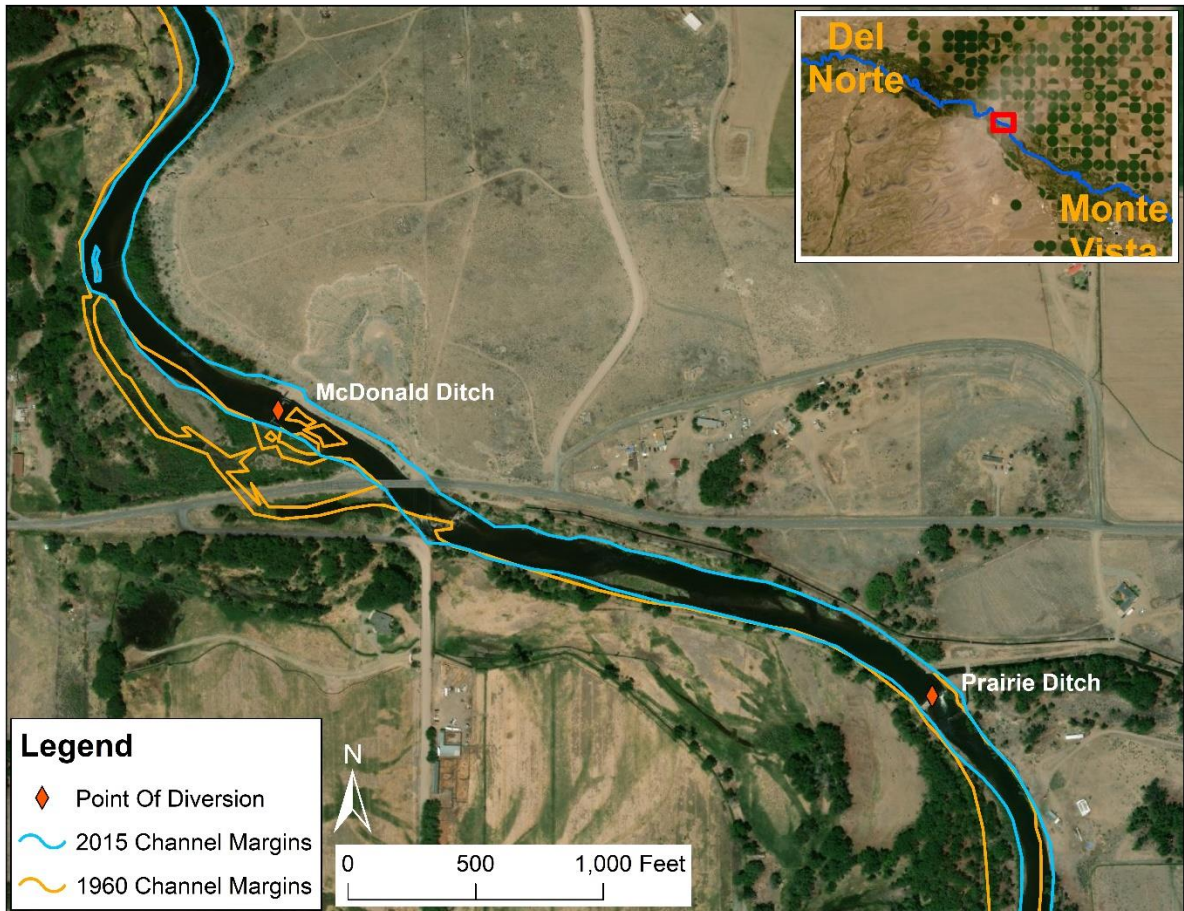
PRAIRIE DITCH

PHOTO LOG

**Rio Grande Stream
Management Plan**



Prairie Ditch headgate location with 1975 and 2015 channel margins overlaid



Prairie Ditch headgate location with 1960 and 2015 channel margins overlaid