

RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: FISH D

Reported By: Daniel Boyes

Date: April 1, 2019

Headgate	Latitude	Longitude
Location:	37.60736667	-106.16888333

Headgate Type: Manually operated 2.5' wide steel slide gate

Headgate Condition:	A <input checked="" type="checkbox"/>	Diversion and Other Condition:	A <input 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 checked="" type="checkbox"/>	85.31 mi	No <input 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 adjustment headgate was recently replaced and is functioning well.

Structure Description: A stacked rock diversion dam directs water from the Rio Grande to the headgate and a long feeder channel, located on the north bank of the river. Adjacent to the headgate is a relatively new sluice gate designed to mitigate sediment and debris issues. The feeder channel carries water approximately 1.2 miles to the adjustment headgate. An overflow structure directs any excess water into a historic oxbow and ultimately back to the Rio Grande. Severe cut banks exist both upstream and downstream of the diversion dam. During 2019 spring runoff, the north bank upstream of the diversion experienced significant erosion (see report card). Significant channel migration has occurred both upstream and downstream of this structure. At the point of diversion, the river has been migrating northeast toward the diversion. If this migration continues, there is a chance the river may capture its historic channel and form a new main channel. Despite recent improvements, sediment and debris accumulation remains an issue at the diversion dam and headgate.

Repair(s) or Improvement(s) Currently Needed: The Technical Advisory Team (TAT) recommends installing an improved trash rack at the river headgate and implementing bank stabilization and riparian revegetation upstream of the diversion to prevent possible channel avulsion.

Comments: This ditch includes priorities 34 and 209.

Notes:

Estimated Range of Cost: Low

River headgate looking downstream



River headgate outlet



Diversion dam looking upstream



Adjustment headgate outlet



Overflow channel



Flume looking upstream



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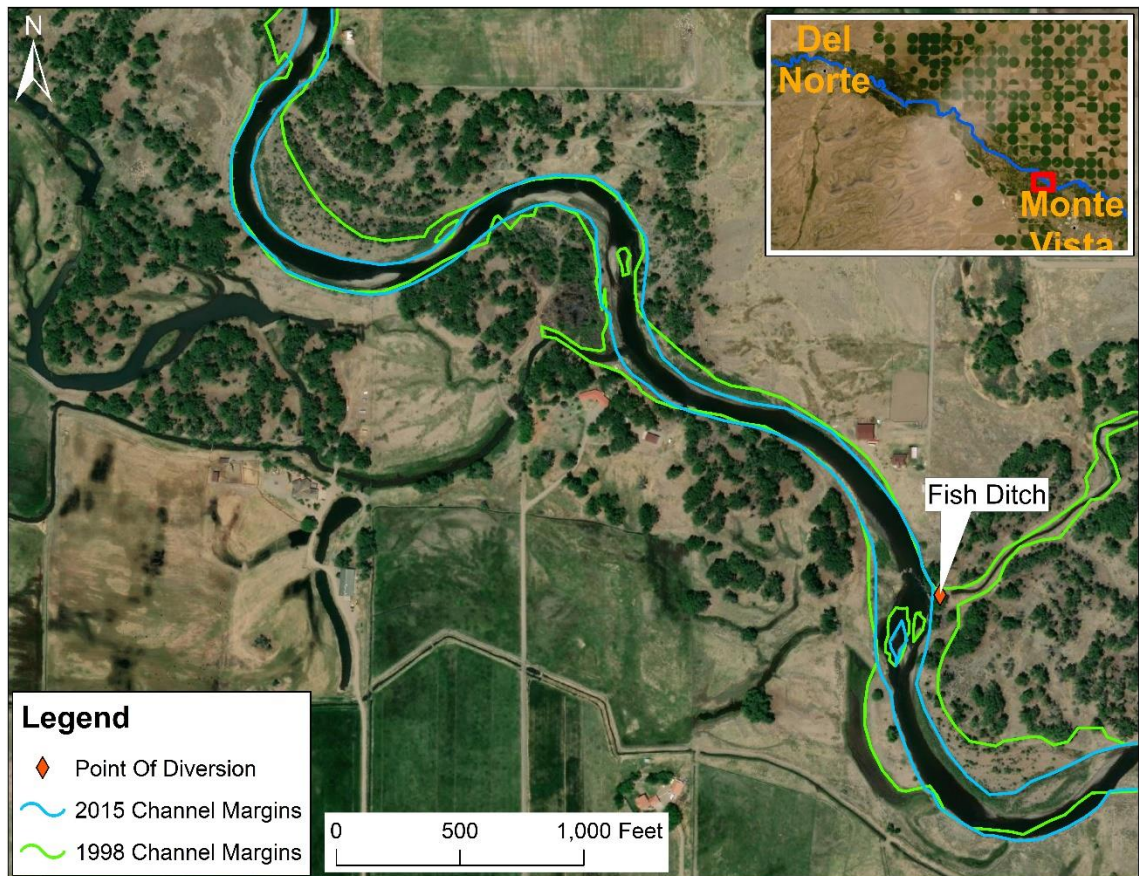
FISH DITCH

PHOTO LOG

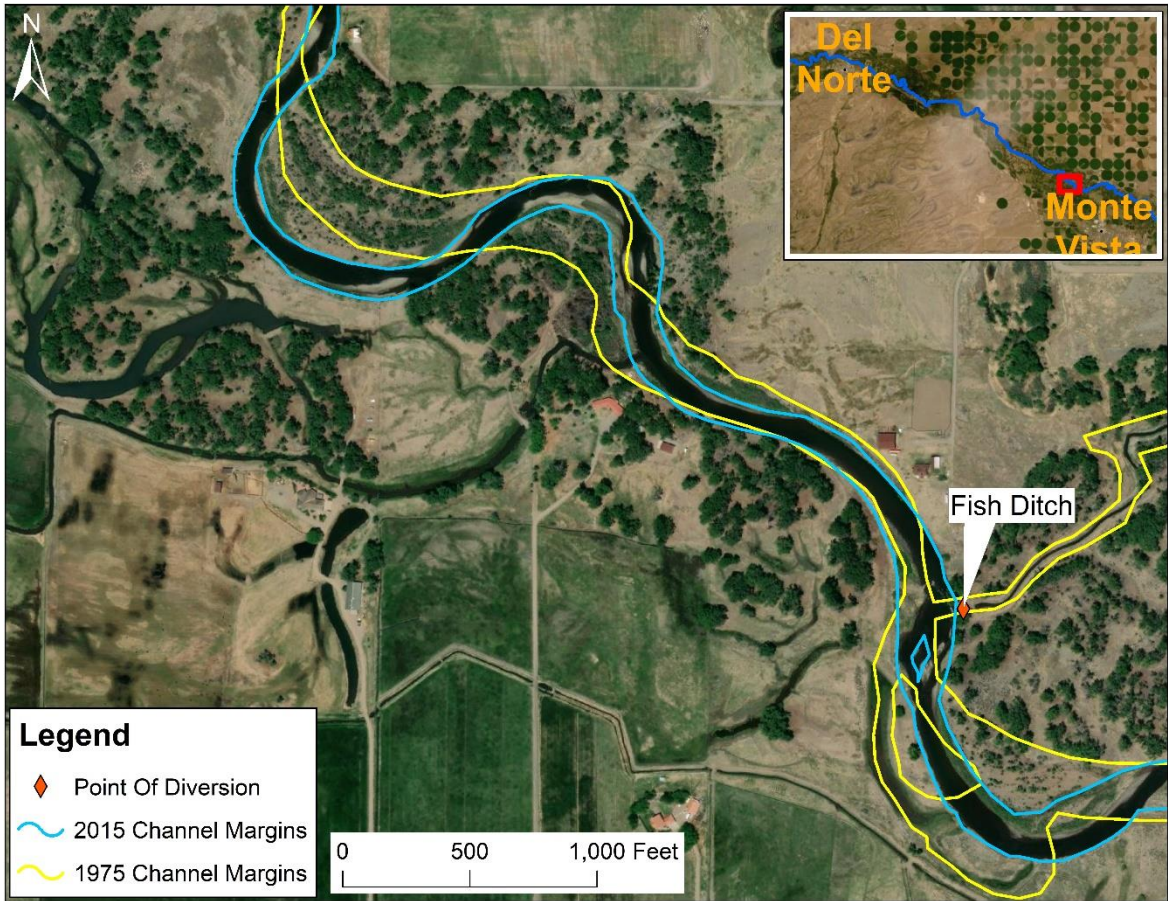
Rio Grande Stream Management Plan



Bank erosion upstream of headgate (north bank)



Fish Ditch diversion with 1998 and 2015 channel margins overlaid



Fish Ditch diversion with 1975 and 2015 channel margins overlaid