

CONEJOS RIVER

DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: FUERTICITOS D

Reported By: Daniel Boyes

Date: April 15, 2019

Headgate	Latitude	Longitude
Location:	37.11911	-106.95963

Headgate Type: Manually operated 4' wide steel slide gate

Headgate Condition:	A <input type="checkbox"/>	Diversion and other Conditions:	A <input type="checkbox"/>	River Miles from Rio Grande Confluence (Point of Diversion):	Structure Submerged: Yes <input type="checkbox"/>
	B- <input checked="" type="checkbox"/>		B <input type="checkbox"/>	26.38 mi	No <input checked="" type="checkbox"/>
	C <input type="checkbox"/>		C <input type="checkbox"/>		
	D <input type="checkbox"/>		D <input checked="" type="checkbox"/>		
	F <input type="checkbox"/>		F <input type="checkbox"/>		

Repair(s) or Improvement(s) Completed Since 2006: N/A

Structure Description: A large metal beam spans the channel, functioning as the diversion dam. This diversion is currently a barrier to fish passage. A significant amount of the river's flow travels underneath the diversion. The headgate is located on the north bank of the river on the outside of a meander. Debris accumulation is a significant issue at this structure, both on the diversion dam and at the headgate. Upstream of the diversion, the river is wide and two gravel bars have formed. Both upstream and downstream of the diversion, meanders have been tightening over time, which is not currently adversely affecting the structure, but may lead to future channel avulsion.

Repair(s) or Improvement(s) Currently Needed: The SMP Technical Advisory Team (TAT) recommends replacing the diversion dam and headgate, implementing bank stabilization, and resetting the Parshall flume. The TAT also recommends fish passage in this reach and ensuring adequate sediment transport at this structure. An improved diversion would improve the sediment transport regime and create new fish passage and habitat in this reach. A new headgate would increase efficiency and reduce maintenance. Targeted bank stabilization would help prevent potential channel avulsion and ensure water is delivered to this structure. Additionally, resetting the Parshall flume would improve its measurement accuracy.

Comments: This ditch is a priority 25.

Notes:

Estimated Range of Cost: Medium-High

Headgate looking downstream



Headgate outlet



Diversion dam looking upstream



Conejos river channel looking upstream



Flume looking downstream



Flume looking upstream



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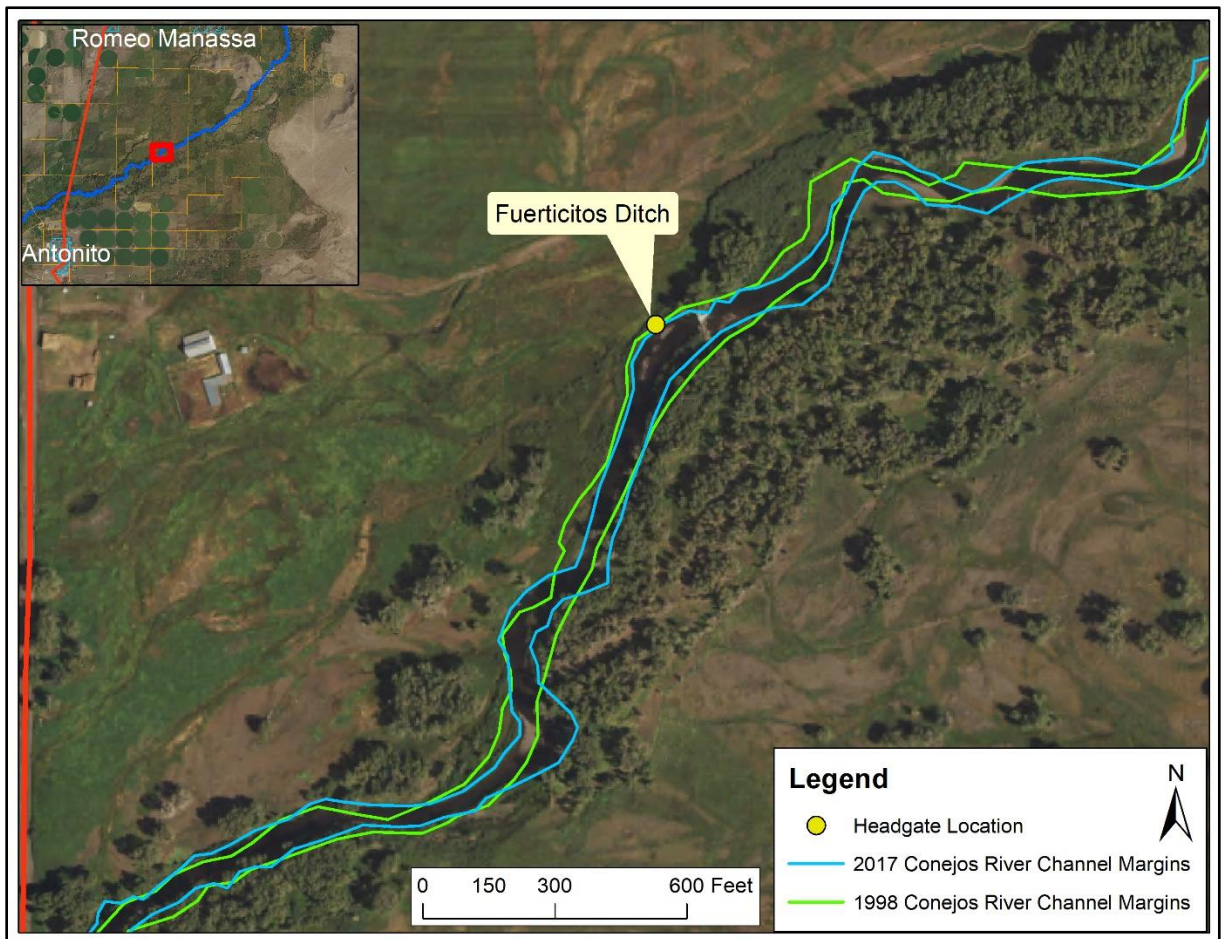
FUERTICITOS DITCH

PHOTO LOG

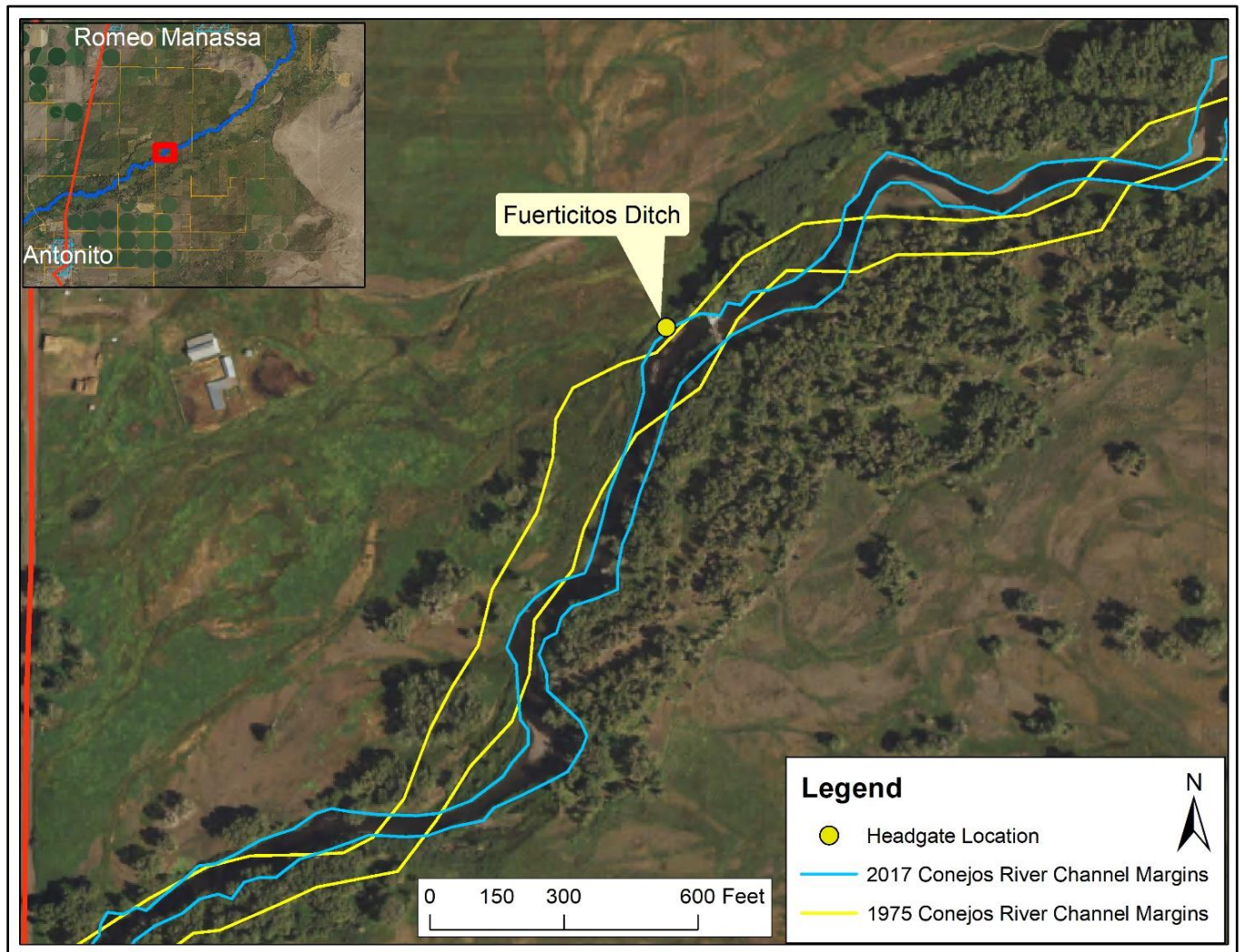
Conejos River Stream Management Plan



Diversion dam and headgate (post-2019 runoff)



Headgate location with 1998 and 2017 channel margins overlaid



Headgate location with 1975 and 2017 channel margins overlaid