RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: COSTILLA D (CANAL)				
Reported By: Daniel Boyes				
Date: April 10, 20	19			
Headgate Latitude Location: 37.55271667		Longitude -106.95066667		
Headgate Type:	: Mechanically operate	d 10' wide	radial gate	
Headgate A Condition: B+ C	✓ Other Condition:	A □ B- ⋈ C □ D □ F □	River Miles from New Mexico State Line (Point of Diversion): 64.99 mi	Structure Yes ⊠ Submerged: No □
Structure Description: This structure is located on the outside of a meander and just downstream of its apex. A trapezoidal concrete diversion dam diverts river flow into the feeder channel on the east bank of the river. The diversion dam effectively diverts water, however it significantly reduces channel capacity at this location. The feeder channel is approximately 1,000 ft long and directs river flow to the headgate. There is a steel trash rack at the entrance of the feeder channel. There are several historic channels near the current channel, suggesting channel avulsion was historically prevalent here. For this reason, it is assumed that channel avulsion from the current channel to a historic channel during a flood event is possible. Immediately upstream of the structure, the river has not migrated significantly since the 1960s (see report card). This is due in part to riprap and concrete blocks that were placed upstream of the diversion on the east bank of the river for stabilization. Downstream of the diversion, channel avulsion has occurred historically and there is potential for meander cutoffs. This ditch's slope is very low and backs up when the ditch is in priority, resulting in a significant issue for water users.				
Advisory Team (T it with bank stabili and reduce hazar the TAT recomme	AT) recommends remarkation structures and reds for boaters and live	oving the criparian veg stock. Addi acity to imp	Based on these issues, the oncrete upstream of the div getation. This restoration wo tionally, if the diversion is reprove river function and redux event.	ersion and replacing ould improve river functio econstructed in the future
Comments: The	headgate is relatively i	new and fu	nctions well. This ditch is a	priority 293.
Notes:				

Estimated Range of Cost: Low

Headgate looking downstream

East bank of Rio Grande looking upstream



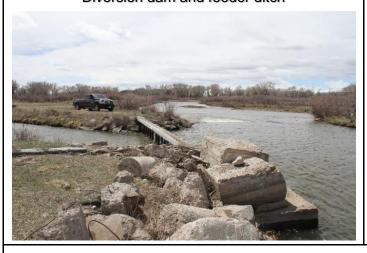
Headgate outlet



Diversion dam looking downstream



Diversion dam and feeder ditch



Measurement structure looking downstream

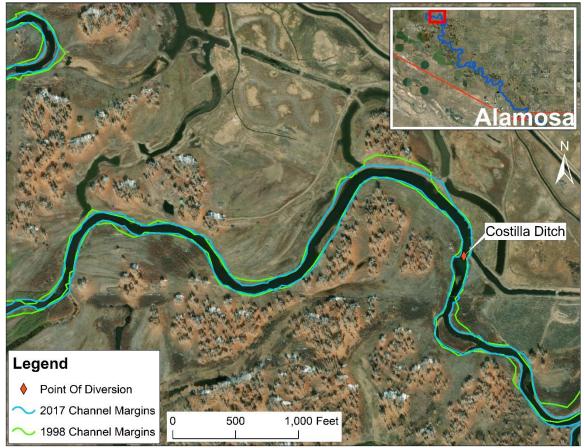


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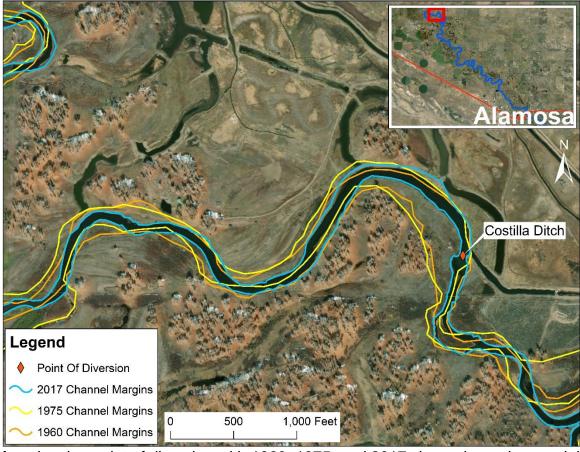
COSTILLA DITCH (CANAL)

PHOTO LOG

Rio Grande Stream Management Plan



Map showing point of diversion with 1998 and 2017 channel margins overlaid



Map showing point of diversion with 1960, 1975, and 2017 channel margins overlaid