

CONEJOS RIVER

DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: WILLIAM STEWART CO IRR D

Reported By: Daniel Boyes

Date: April 16, 2019

Headgate	Latitude	Longitude
Location:	37.297761	-105.797052

Headgate Type: Manually operated 4' wide steel slide gate

Headgate Condition:	A <input type="checkbox"/>	Diversion and other Condition:	A <input type="checkbox"/>	River Miles From North Branch Conejos Terminus (Point of Diversion):	Structure Submerged: Yes <input checked="" type="checkbox"/>
	B <input checked="" type="checkbox"/>		B <input type="checkbox"/>		No <input type="checkbox"/>
	C <input type="checkbox"/>		C <input type="checkbox"/>		
	D <input type="checkbox"/>		D <input checked="" type="checkbox"/>	5.65 mi	
	F <input type="checkbox"/>		F <input type="checkbox"/>		

Repair(s) or Improvement(s) Since 2006: Regular maintenance on the diversion dam and feeder channel.

Repair(s) or Improvement(s) Currently Needed: Recommended improvements include the installation of a new diversion dam and headgate (with adjacent sluice gate) designed to deliver water to the headgate at various flows, reduce annual maintenance, and improve river function by improving sediment transport and aquatic habitat. Fish and boat passage should be considered as part of any improvements to the diversion. Riparian vegetation restoration should also be included as part of any improvements. A useful reference and potential model is the Alamo Ditch, the next structure upstream, which was recently improved and functions well.

Structure Description: The diversion for this structure is located between two wide meanders. The diversion dam is made of river sediment (sand and small gravel-dominated) and directs water to a feeder channel on the north side of the river. The sinuous feeder channel is ~0.46 miles long and delivers water to the headgate. On the feeder channel, a diversion dam made of stacked rock and debris directs water to the headgate, which is located on the north side of the feeder channel. This structure is located on a very flat part of the river. Significant sedimentation is occurring in the main channel of Conejos River and in the feeder ditch. The main river channel is maintained and modified on an annual basis in order to deliver water to the feeder channel. Significant bank erosion is occurring just upstream of the diversion dam (see photo below) Additionally, the main river channel has migrated significantly in the past, and lateral migration and meander cutoffs are likely in the future.

Additional Comments: This ditch is a priority 43. The feeder channel is rated D.

Notes:

Estimated Range of Cost: High

Headgate looking downstream



Headgate and diversion dam (on feeder ditch)



Diversion dam on feeder ditch



Diversion dam looking downstream



Diversion dam looking upstream



Parshall flume looking downstream

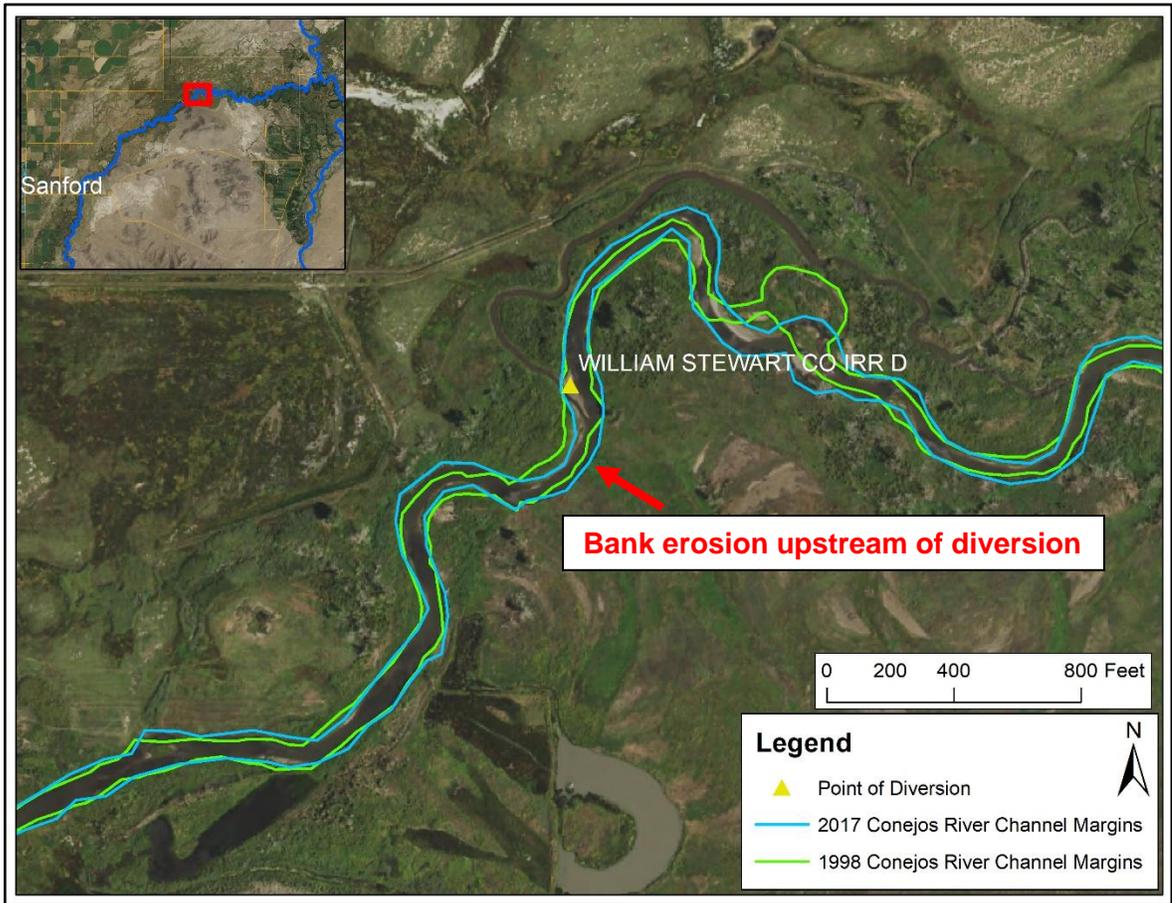


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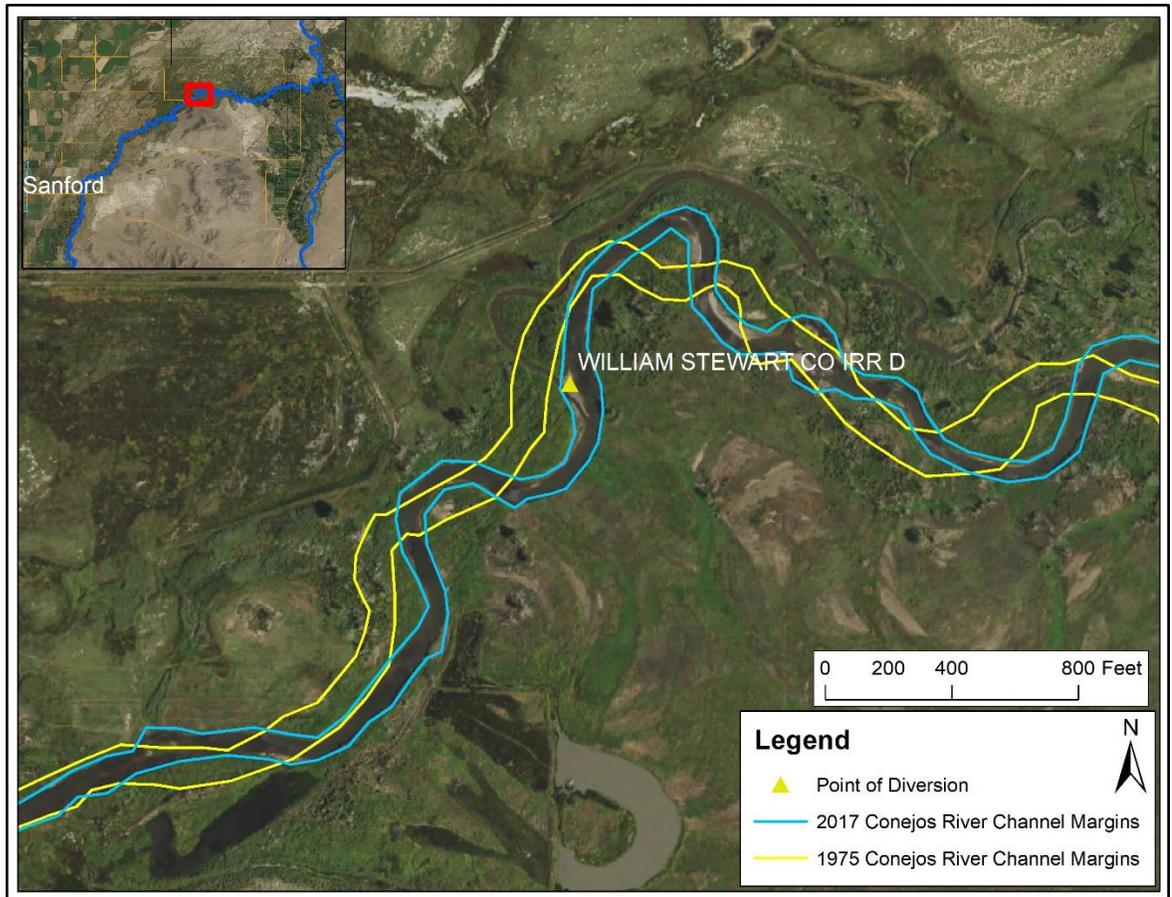
WILLIAM STEWART CO IRR DITCH

PHOTO LOG

Conejos River Stream
Management Plan



Headgate location with 1998 and 2015 channel margins overlaid.



Headgate location with 1975 and 2015 channel margins overlaid.