

CONEJOS RIVER

DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: SMITH BROS D

Reported By: Daniel Boyes

Date: April 16, 2019

Headgate	Latitude	Longitude
Location:	37.22387	-105.86785

Headgate Type: Manually operated 2' wide steel slide gate.

Headgate Condition:	A <input type="checkbox"/>	B <input checked="" type="checkbox"/>	C <input type="checkbox"/>	D <input type="checkbox"/>	F <input type="checkbox"/>	Diversion and other Condition:	A <input type="checkbox"/>	B- <input checked="" type="checkbox"/>	C <input type="checkbox"/>	D <input type="checkbox"/>	F <input type="checkbox"/>	River Miles From North Branch Conejos Terminus (Point of Diversion):	14.53 mi	Structure Submerged:	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
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Repair(s) or Improvement(s) Since 2006: N/A

Repair(s) or Improvement(s) Currently Needed: The streambank in this area needs to be restored to reduce erosion and improve river and ditch function. Riparian vegetation restoration should be included as part of any bank restoration work. Existing fish and boat passage should be maintained as part of any improvements to the diversion. The flume should be leveled to improve long term accuracy.

Structure Description: Located on the mainstem Conejos River just upstream of East Bend Ditch. Channel avulsion has occurred upstream of the diversion, but the river migrated very little in the last 20 years. Cut banks and accelerated bank erosion is an issue near the diversion, however. There is no diversion dam at this structure. The headgate is located on the outside of a meander that is stabilized with concrete rubble. Despite this stabilization, the headgate is tilted sideways. It still functions but could be reset or set in concrete. The flume is also tilted.

Comments: This ditch is a priority 89.

Notes:

Estimated Range of Cost: Low

Headgate looking downstream



Headgate and diversion dam



Headgate outlet looking upstream



Ditch downstream of headgate



Parshall flume looking downstream



Parshall flume looking upstream

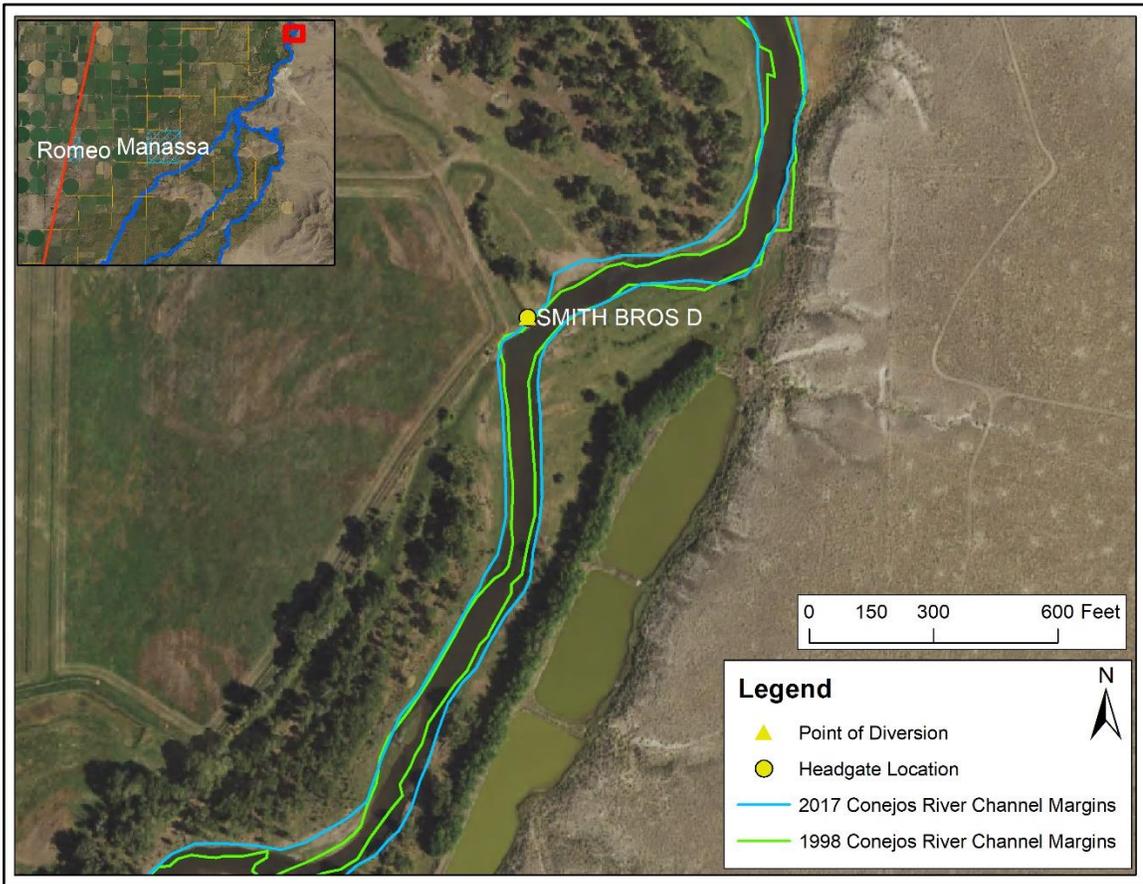


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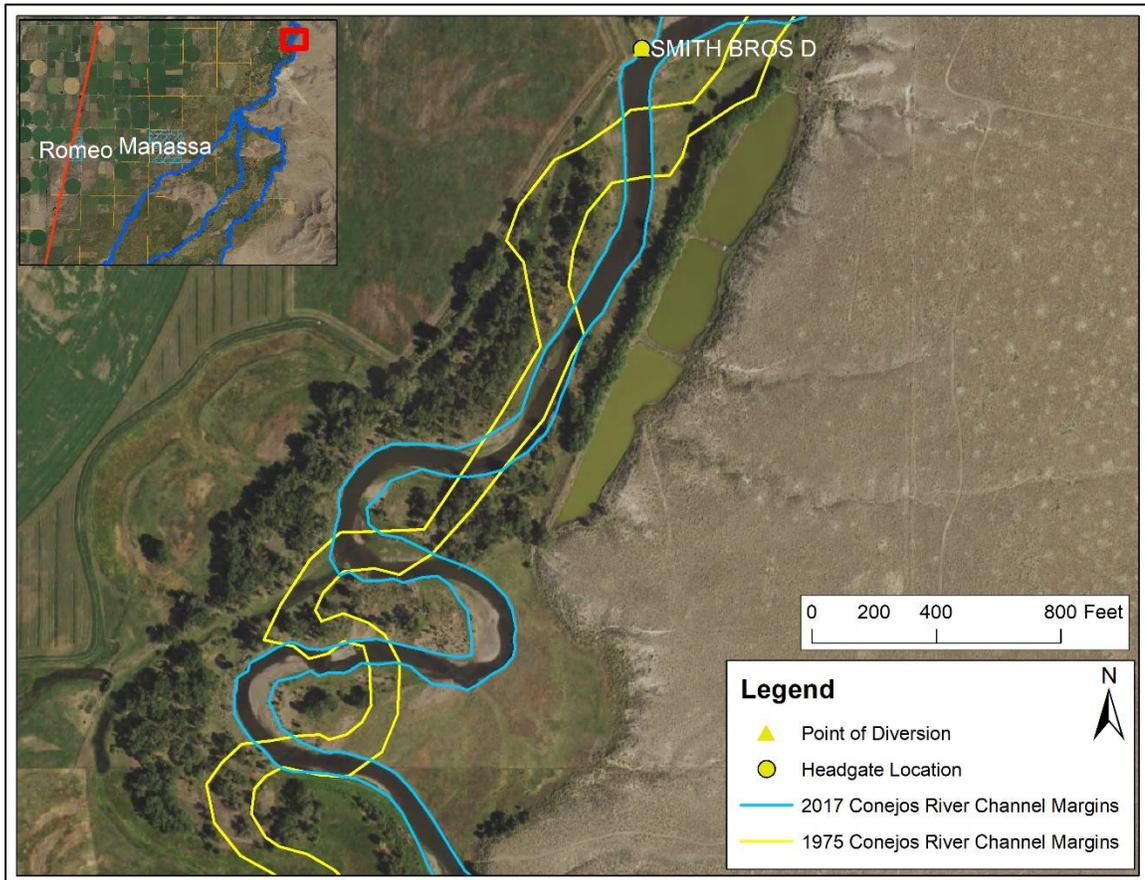
SMITH BROS DITCH

PHOTO LOG

Conejos River Stream
Management Plan



Map of headgate location with 1998 and 2015 channel margins overlaid.



Map of 1975 and 2015 channel margins, illustrating channel avulsion upstream of diversion.