CONEJOS RIVER
DIVERSION INFRASTRUCTURE INVENTORY

Structure Name: SMITH BROS D

Reported By: Daniel Boyes

Date: April 16, 2019

Headgate Location:	**Latitude**	**Longitude**
	37.22387	-105.86785

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

Headgate Condition: A ☐ B ☒ C ☐ D ☐ F ☐

Diversion and Other Condition: A ☐ B- ☒ C ☐ D ☐ F ☐

River Miles from Rio Grande Confluence (Point of Diversion): 14.53 mi

Structure Submerged: Yes ☒ No ☐

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

Structure Description: Channel avulsion has occurred upstream of this structure's diversion, but the river migrated very little in the last 20 years. Cutbanks 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 blocks. Despite stabilization, the headgate is tilted. The flume is also tilted.

Repair(s) or Improvement(s) Currently Needed: The SMP Technical Advisory Team (TAT) recommends resetting the headgate and flume and implementing riparian revegetation. Headgate and flume improvements would improve efficiency and long-term accuracy. Riparian revegetation would reduce erosion and improve river and ditch function.

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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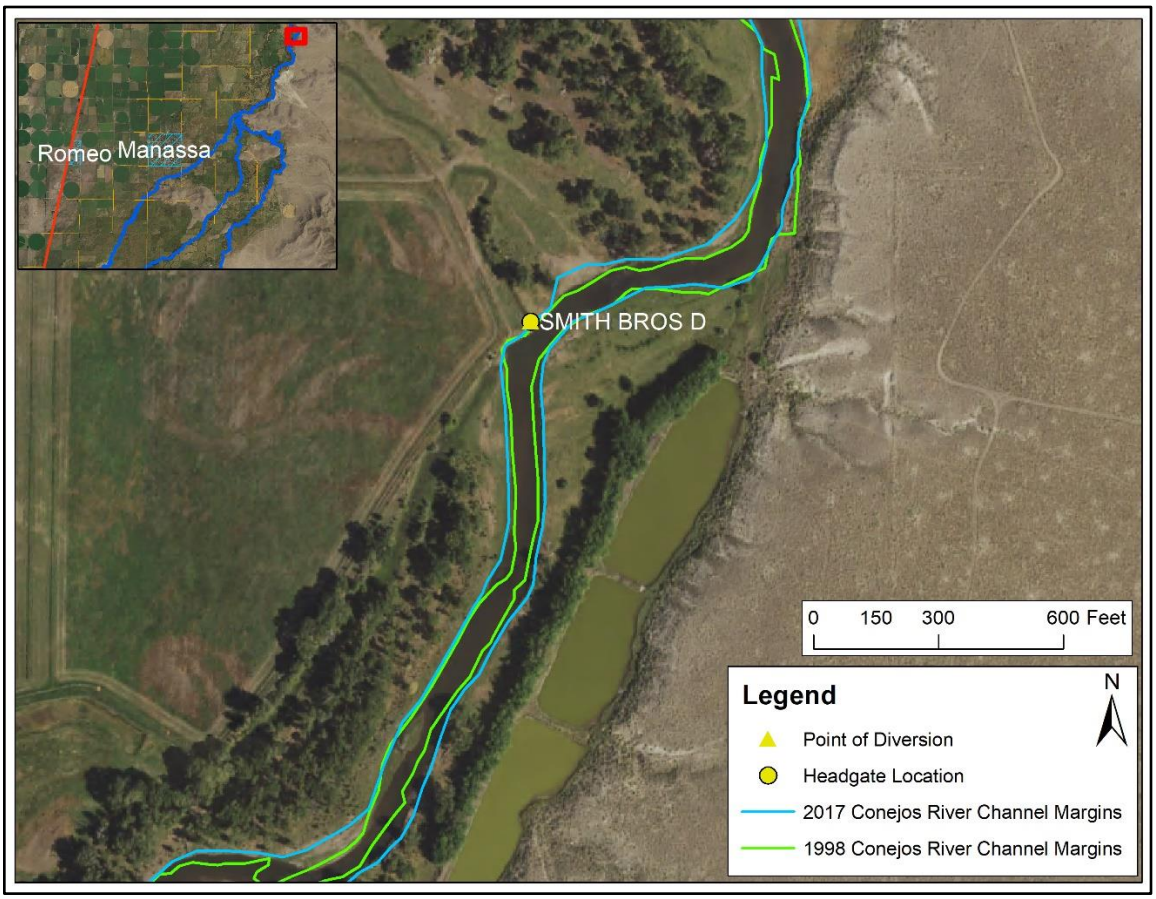
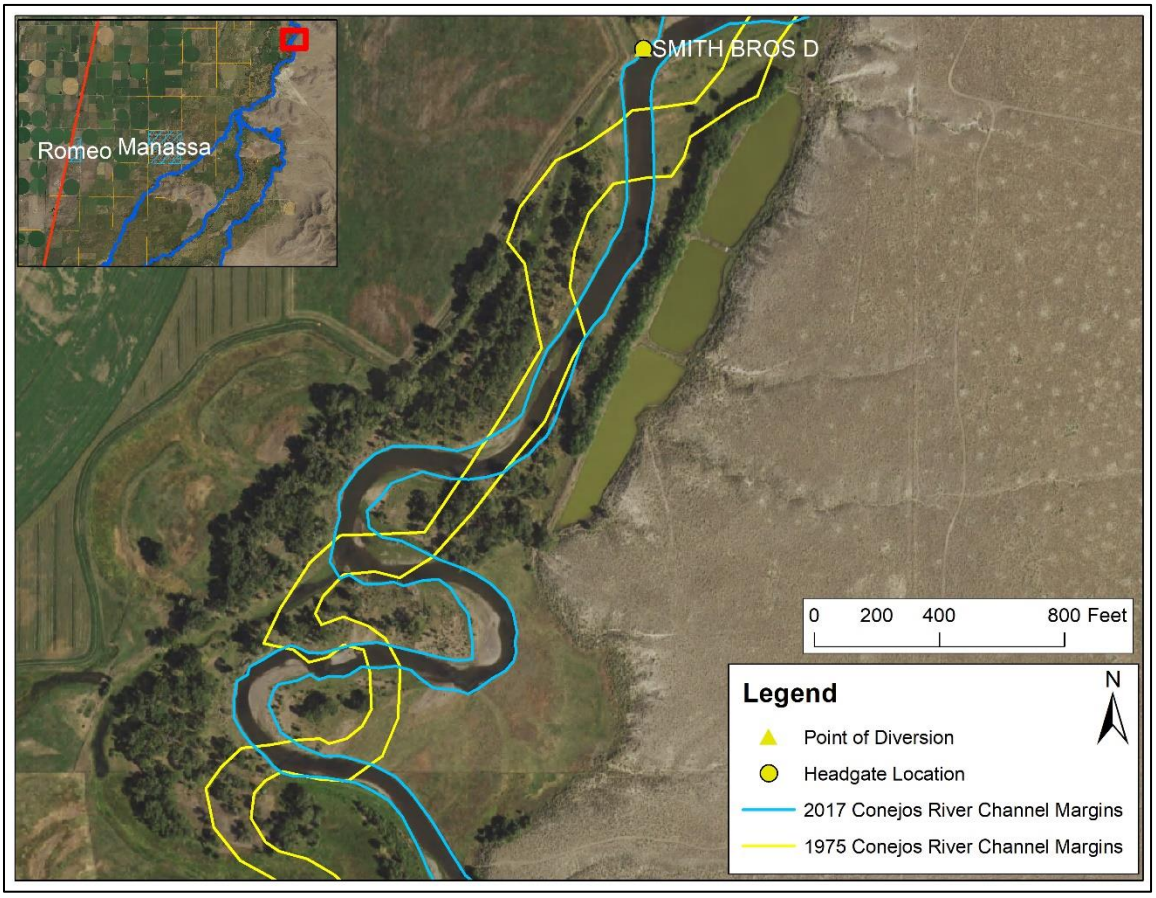
SMITH BROS DITCH

PHOTO LOG

Conejos River Stream Management Plan



Headgate location with 1998 and 2015 channel margins overlaid.



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