

# CONEJOS RIVER

## DIVERSION INFRASTRUCTURE INVENTORY

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**Structure Name:** ELLEDGES D

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**Reported By:** Daniel Boyes

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**Date:** April 16, 2019

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Headgate	Latitude	Longitude
Location:	37.170127	-105.898619

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**Headgate Type:** Manually operated 3' wide steel slide gate

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<b>Headgate Condition:</b> A <input type="checkbox"/>	<b>Diversion and Other Conditions:</b> A <input type="checkbox"/>	<b>River Miles from Rio Grande Confluence (Point of Diversion):</b> A <input type="checkbox"/>	<b>Structure Submerged:</b> Yes <input checked="" type="checkbox"/>
B- <input checked="" type="checkbox"/>	B <input type="checkbox"/>	B <input type="checkbox"/>	No <input type="checkbox"/>
C <input type="checkbox"/>	C <input type="checkbox"/>	C <input type="checkbox"/>	
D <input type="checkbox"/>	D <input checked="" type="checkbox"/>	D <input checked="" type="checkbox"/>	20.39 mi
F <input type="checkbox"/>	F <input type="checkbox"/>	F <input type="checkbox"/>	

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

**Structure Description:** The river is relatively stable in this location due to bedrock controls on the east side of the river. The stacked rock diversion dam, which directs water to the headgate on the east bank of the channel, forms a barrier to fish passage. Woody debris accumulates on the diversion dam and at the headgate. The ditch runs parallel to an access road for approximately 0.5 mile. Downstream of the headgate, the ditch is very close to the river in two locations. During past high flow events, the river bank has failed and washed the ditch out in these locations, which are approximately 450 and approximately 950 ft downstream of the headgate, respectively. At the closer location, a j-hook spans the river but does not appear to be mitigating erosion that is threatening the ditch.

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**Repair(s) or Improvement(s) Currently Needed:** Given these issues, the SMP Technical Advisory Team (TAT) recommends installing a new diversion, installing a trash rack, and implementing streambank stabilization at the two vulnerable locations, including replacement of the existing j-hook. A new diversion and trash rack would allow for fish passage and reduce debris accumulation and maintenance. Bank stabilization would reduce erosion and help prevent the ditch from washing out.

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**Comments:** This ditch is a priority 64. Downstream of the headgate, the ditch is orange-colored, likely due to iron precipitates.

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**Notes:**

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**Estimated Range of Cost:** Medium-High

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Headgate looking downstream



Headgate outlet



Headgate and diversion dam



Diversion dam looking upstream



River channel upstream of headgate



Flume looking upstream

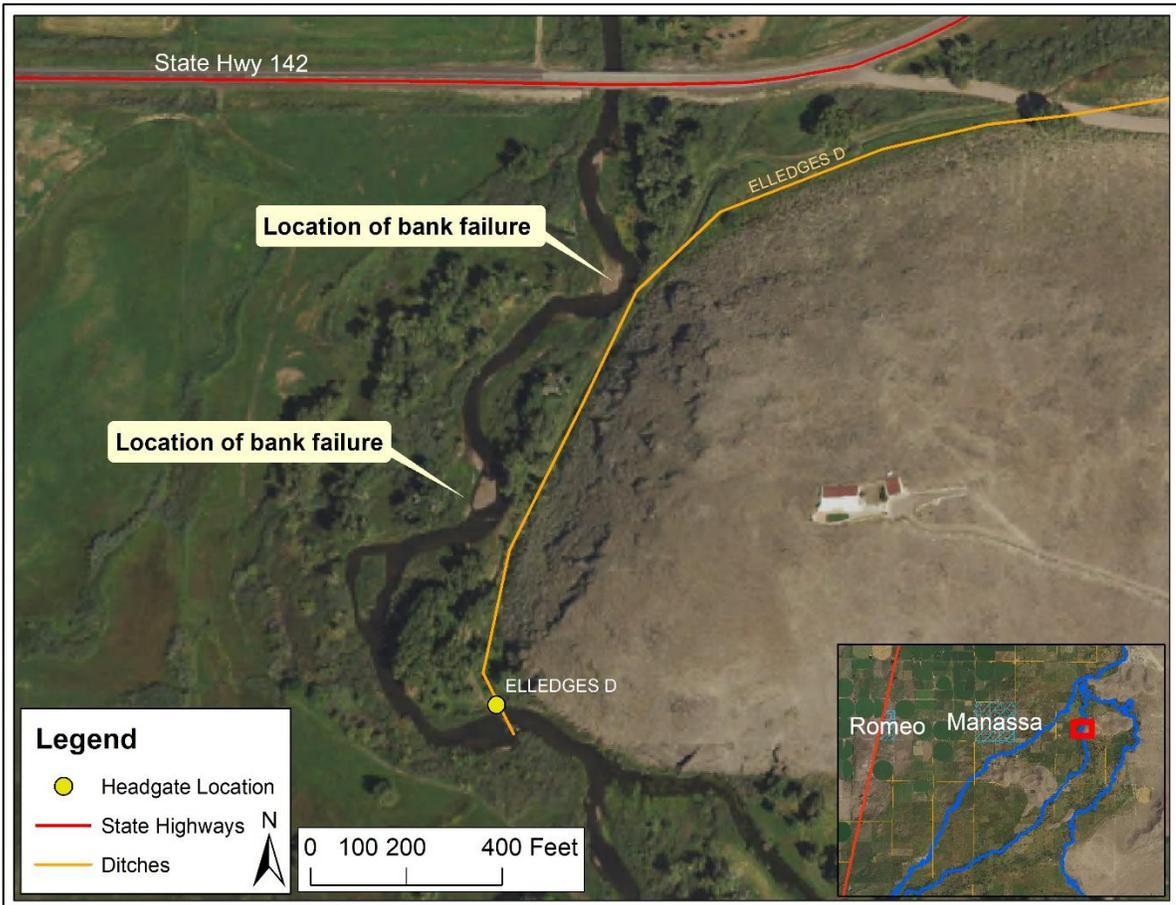


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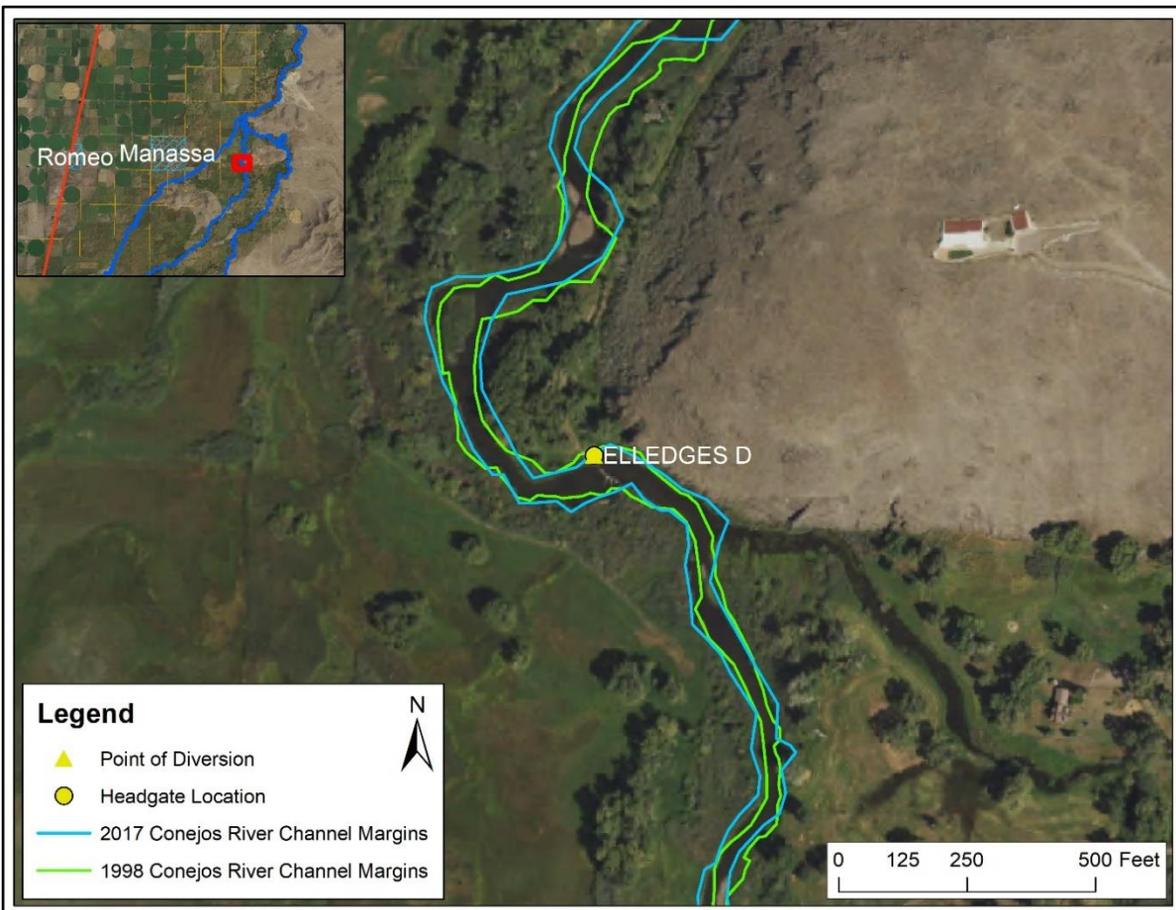
ELLEDGES DITCH

PHOTO LOG

Conejos River Stream  
Management Plan



Headgate location and locations of potential ditch failure at high flows.



Headgate location with 1998 and 2015 channel margins overlaid.