

# CONEJOS RIVER

## DIVERSION INFRASTRUCTURE INVENTORY

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**Structure Name:** ARCHULETA TROGILLIO NO 1

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**Reported By:** Daniel Boyes

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**Date:** April 15, 2019

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Headgate	Latitude	Longitude
Location:	37.12621	-106.93933

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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>	<b>Structure Submerged:</b>	Yes <input type="checkbox"/>
	B <input checked="" type="checkbox"/>		B <input checked="" type="checkbox"/>	25.06 mi	No <input checked="" type="checkbox"/>	
	C <input type="checkbox"/>		C <input type="checkbox"/>			
	D <input type="checkbox"/>		D <input type="checkbox"/>			
	F <input type="checkbox"/>		F <input type="checkbox"/>			

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**Repair(s) or Improvement(s) Completed Since 2006:** A gravel dam was constructed to prevent the river from flowing into an historic channel and away from headgate.

**Structure Description:** There is no diversion dam for this structure. The headgate is located on the north bank of the river. The bank upstream of the headgate is eroding, causing flows to bypass the headgate and enter the ditch, especially at high flows. The headgate also leaks, causing additional flows to enter the ditch. The headgate needs to be repaired or replaced. Bank stabilization is also recommended to ensure the headgate does not experience catastrophic failure during high flows. Although the channel near this structure has migrated historically (pre-1970s), it has not experienced significant lateral migration since 1998 or earlier. The channel upstream of headgate is widening and flows could bypass the headgate, especially at high flows.

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**Repair(s) or Improvement(s) Currently Needed:** Given the stressors affecting this structure, the SMP Technical Advisory Team (TAT) recommends bank stabilization upstream of the diversion as well as riparian revegetation and aquatic habitat restoration. The TAT also recommends maintaining fish passage for aquatic habitat connectivity in this reach. Bank stabilization structures and riparian revegetation would help prevent flows from bypassing the headgate. Alternatively, the headgate and point of diversion could be relocated upstream as a long-term solution to localized erosion at the headgate. Aquatic habitat enhancement, especially the creation of a low-flow channel near the diversion, would improve the fisheries.

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**Comments:** This ditch includes priorities 18 and 61.

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**Notes:**

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**Estimated Range of Cost:** Medium

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Headgate looking downstream



Headgate and diversion dam



Headgate outlet



Diversion dam



Conejos River looking upstream



Flume looking downstream

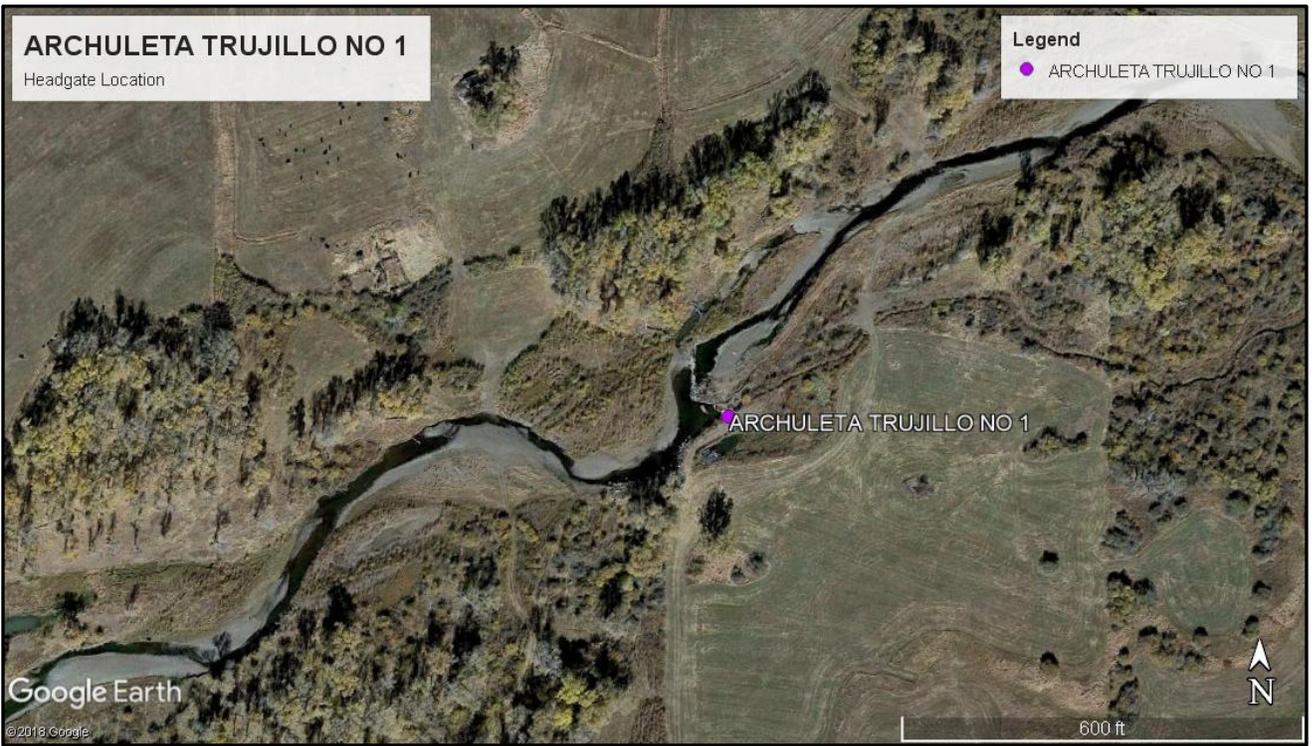


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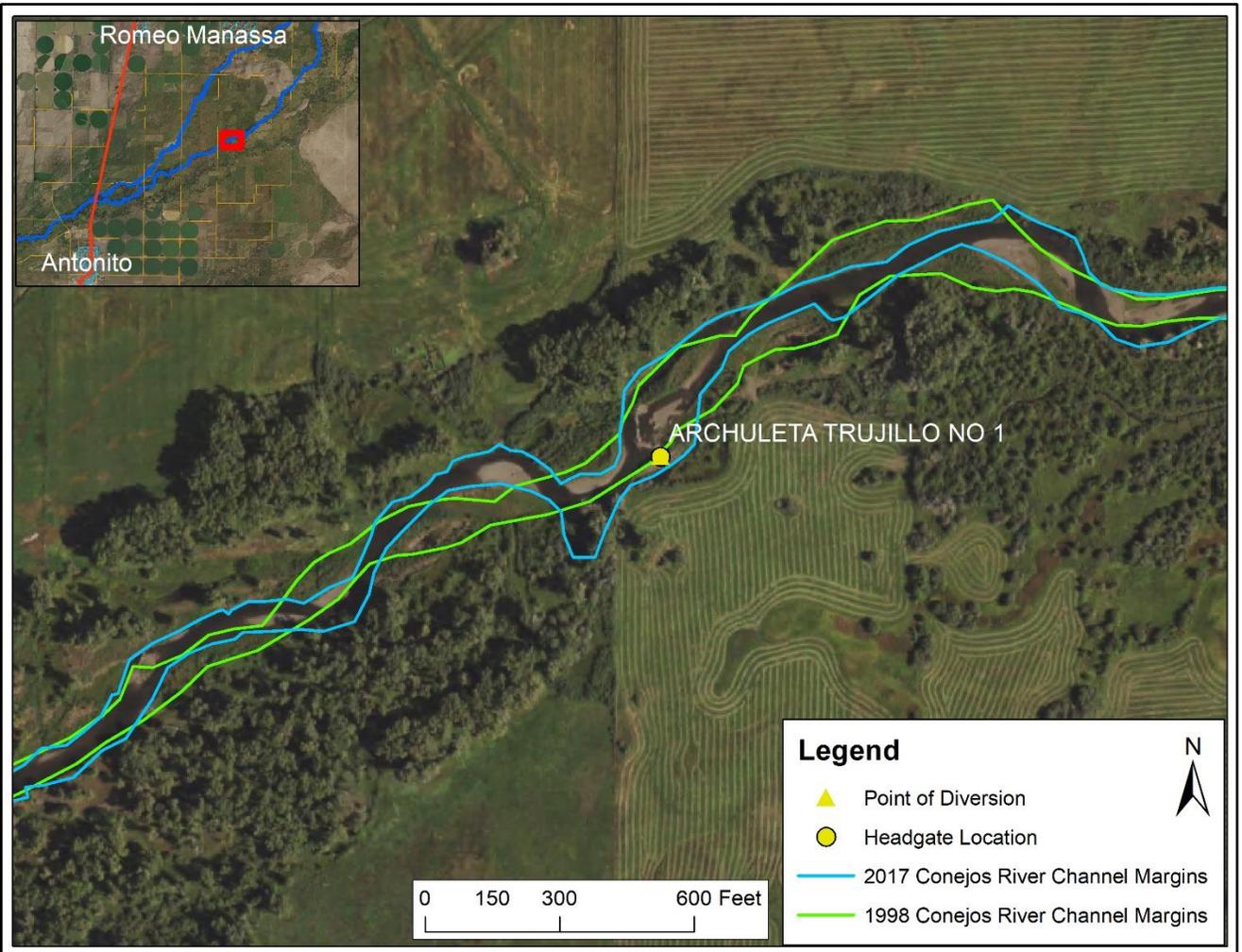
**ARCHULETA TRUJILLO NO 1**

**PHOTO LOG**

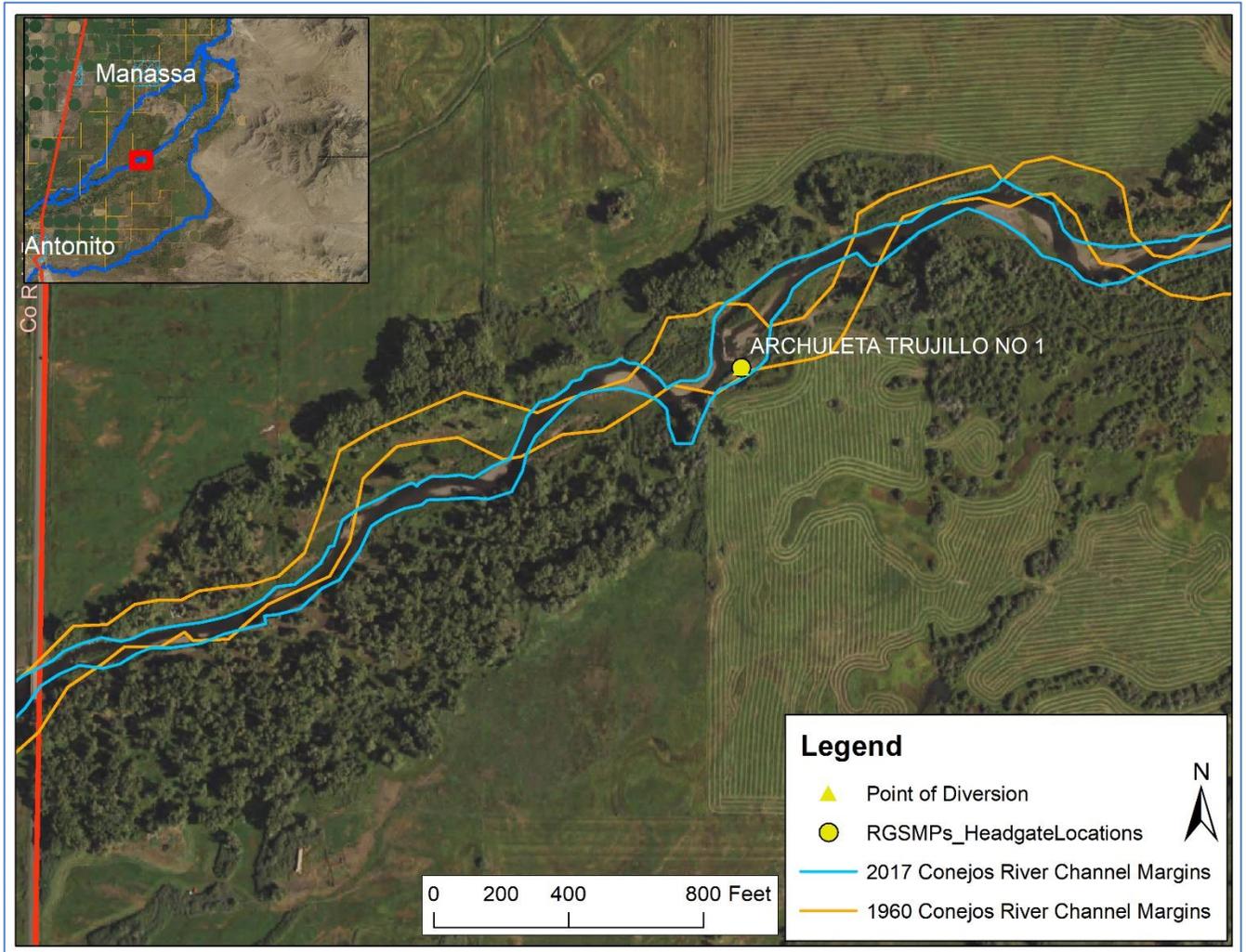
**Conejos River Stream  
Management Plan**



Map of headgate location and intermittent flow. Photo from October 2016.



Headgate location with 1998 and 2017 channel margins overlaid.



Headgate location with 1960 and 2017 channel margins overlaid.