

# RIO GRANDE DIVERSION INFRASTRUCTURE INVENTORY

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**Structure Name:** BAUER D

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**Reported By:** Daniel Boyes

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**Date:** May 7, 2019

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Headgate	Latitude	Longitude
Location:	37.68396667	-106.46933333

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

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<b>Headgate Condition:</b>	A <input checked="" type="checkbox"/>	<b>Diversion and Other Condition:</b>	A <input type="checkbox"/>	<b>River Miles from New Mexico State Line (Point of Diversion):</b>	<b>Structure Submerged:</b>	Yes <input checked="" type="checkbox"/>
	B <input 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"/>	109.36 mi		
	F <input type="checkbox"/>		F <input type="checkbox"/>			

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**Repair(s) or Improvement(s) Completed Since 2006:** The headgate is relatively new (installed in the end of 2017), and functions well.

**Structure Description:** There is no diversion dam, but this ditch functions on grade with the river. Occasionally, this ditch has difficulty diverting its full decree due to the lack of a diversion dam. The point of diversion is located on the outside bend of the river, just downstream of the apex. The river channel has migrated very little in the last 45 years, although localized bank erosion has occurred. Bank stabilization structures were installed upstream and downstream of this structure in 2009 to mitigate bank erosion. Flows are directed into a feeder channel located on the south bank. The feeder channel is approximately 1,200 ft long and delivers water to the headgate. A 2 ft culvert (see report card) returns overflow water to the Rio Grande. The feeder channel and a significant portion below the headgate are within the floodplain. This is problematic due to constant erosion by the river as well as sediment deposition in the feeder channel.

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**Repair(s) or Improvement(s) Currently Needed:** The Technical Advisory Team (TAT) recommends raising the elevation of the feeder channel and/or installing a sluice gate to mitigate sediment accumulation. Additionally, a small diversion dam would enable the ditch to operate at all flow levels.

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**Comments:** The headgate is brand new (end of 2017) and functions well. This ditch includes priorities 187, 335, and 1916-27.

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**Notes:**

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**Estimated Range of Cost:** Medium

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Headgate looking downstream



Headgate outlet



Diversion dam and feeder ditch



Diversion dam



Flume looking downstream



Flume looking upstream

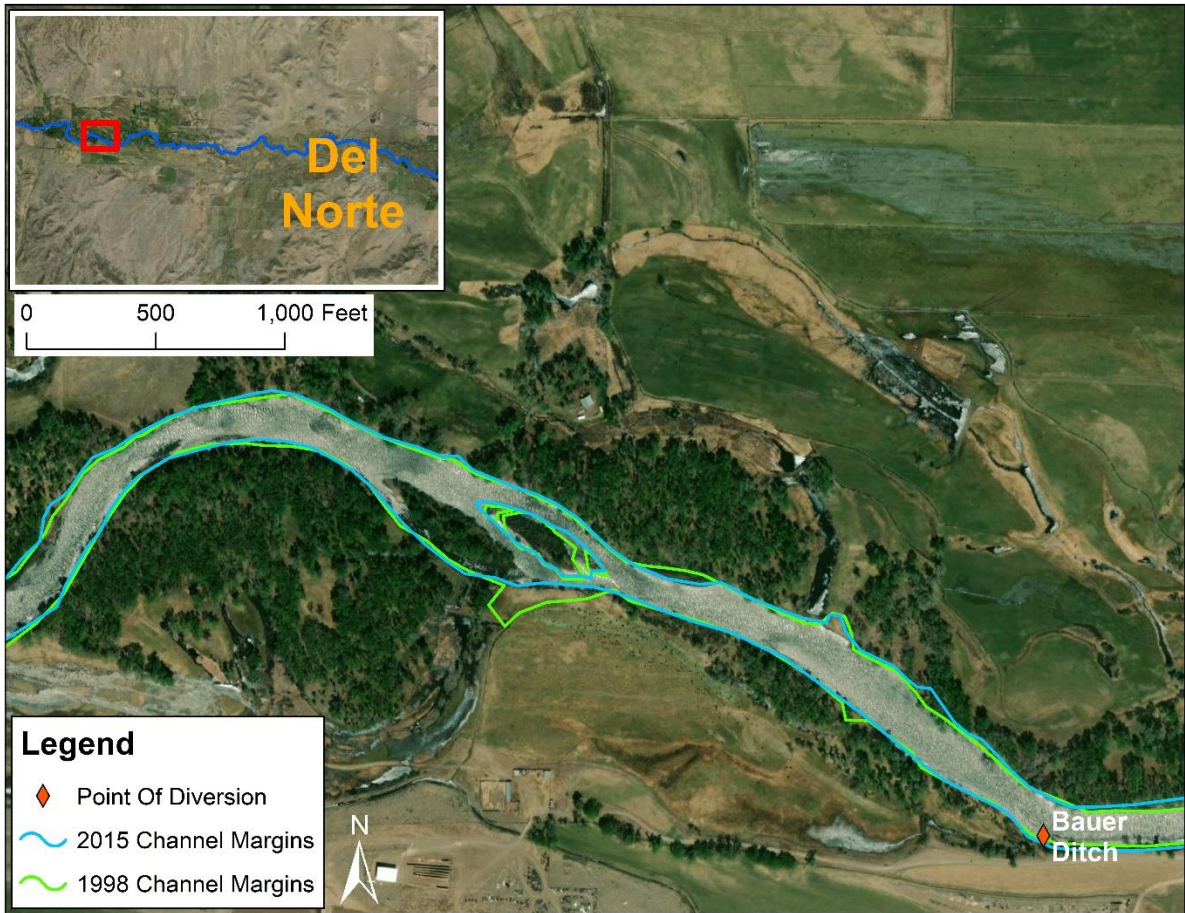


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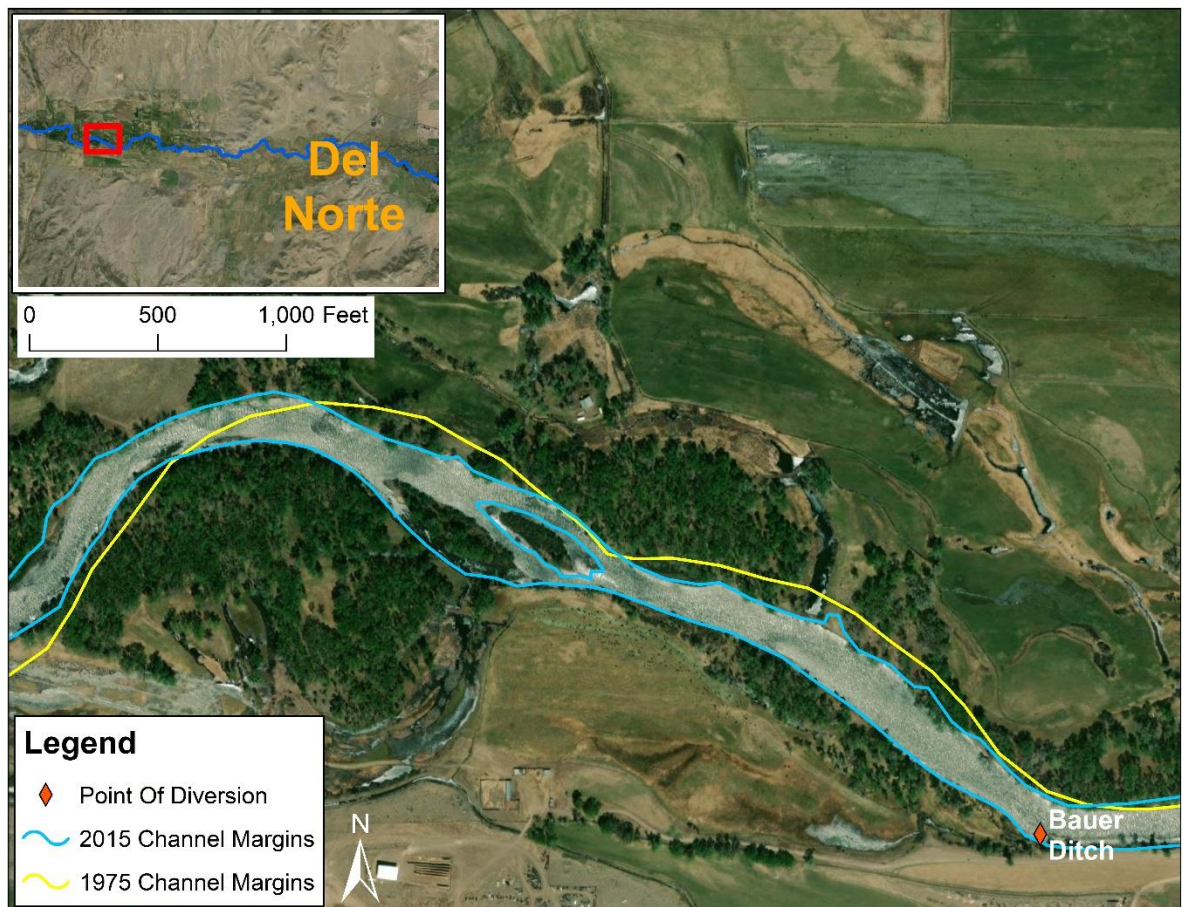
**BAUER DITCH**

**PHOTO LOG**

**Rio Grande Stream  
Management Plan**



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



Map of Bauer Ditch headgate location with 1975 and 2015 channel margins overlaid.