

INTRODUCTION AND SUMMARY

This memo is to document the telephone conversation and action items some of us discussed on July 21, 2017 regarding recent problems with submergence issues at the Frontier Ditch. The Frontier Ditch gage is one of two gages that comprise the Stateline flow. The other gage is the Arkansas River near Coolidge, KS. See Map Attached. The USGS maintains both of these gages.

The discussion initially started with submergence being associated with Frontier Parshall flume being beyond its useful life. Kevin and Lori (USGS) both noted that the submergence issue was not caused by the Parshall flume or checks placed in the ditch below that flume. They believe that the submergence

Engineering Evaluation of Performance Conditions at Frontier Ditch, KS prepared for the

Arkansas River Compact Administration

November 2017

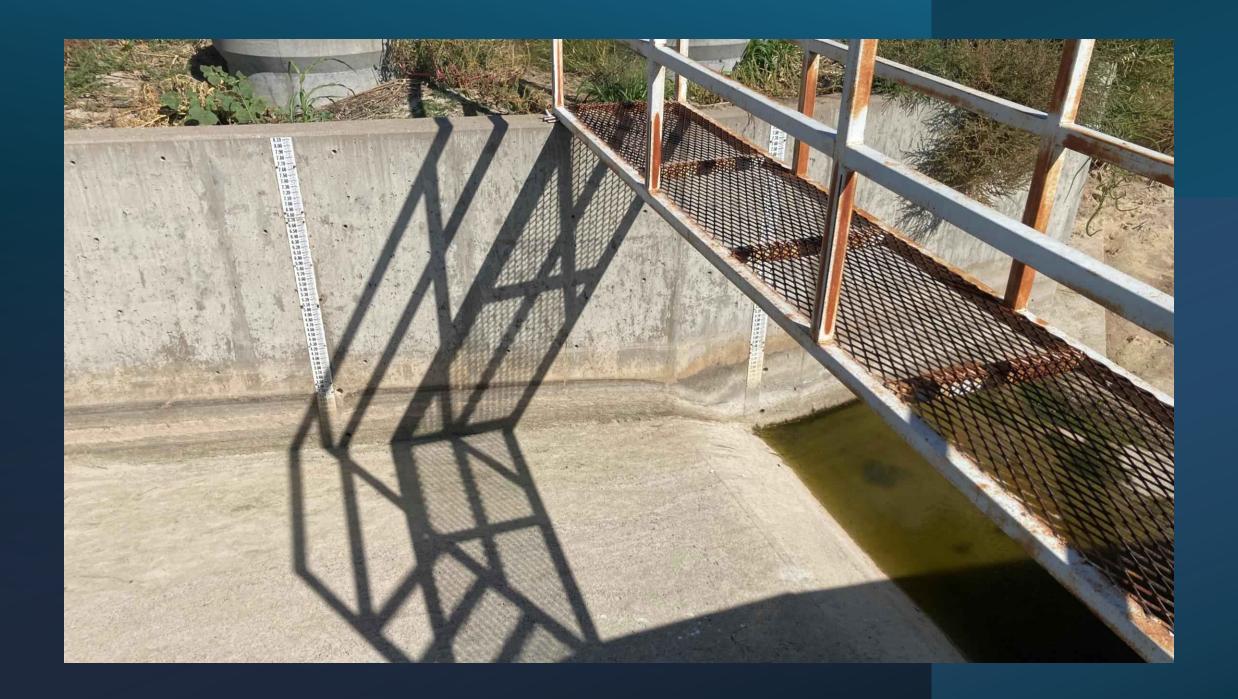
Prepared by Division 2 Hydrography Program







October 8, 2024





Cost Estimates

Supplier	Material	Total Cost
Stampede	Concrete	\$36,156
Carrigan	Concrete	\$39,365
OCF	Stainless Steel	\$59,226
IEI	Stainless Steel	\$60,047

These <u>estimates</u> include installation and shipping costs. The Stampede quote also includes a concrete gage house.

Funding

Reclamation WaterSMART Grant

- Small-Scale Water Efficiency Program (SWEP)
- Regular deadlines in January and July
- January deadline > Recipients announced in May > Awards in October
- Would require 50% cost-share

Other

- ARCA funding
- Other funding sources



