



Measurement Structure Reconstruction Project

Last Chance Ditch Company
Substantially Complete September 1, 2024

The Last Chance Ditch Company Measurement Structure Reconstruction Project is shown in the pictures below. The Project installed a new cast-in-place concrete flume which allows for accurate measurement of the flow rate through the ditch.



Project Description

The Last Chance Ditch Company provides water from St. Vrain Creek to nearby farmers, special districts, commercial interests, and municipalities and is used for irrigation on approximately 820 acres as well as for augmentation, gravel mining, and municipal use.

The Last Chance Ditch Company's Measurement Structure Reconstruction Project focused on replacing the existing measurement flume for the ditch, which was identified as deficient by a Department of Water Resources Structure Assessment conducted in the spring of 2022. The steel walls of the flume had rusted out, the invert was too low to obtain an accurate flow rate reading, and scour was occurring on the downstream end of the flume. Last Chance Ditch Company replaced the failing flume with a new, cast-in-place concrete flume and installed a new stilling well, an enclosure for electronic monitoring equipment, and armoring of the ditch channel in the flume vicinity.

| P R O J E C T D A T A | | |
|---------------------------------------------------------------------------------------|---------------------|-------------------------------------------|
| <i>Sponsor:</i> Last Chance Ditch Company | <i>County:</i> Weld | <i>Water Source:</i> St. Vrain Creek |
| <i>Type of Project:</i> Ditch Rehabilitation | | <i>Board Approval Date:</i> November 2023 |
| <i>Loan Terms:</i> 30 years @ 4.50% (Original) \$197,960 @ 4.50% (Final) \$191,691.01 | | |
| <i>Design Engineer:</i> Summit Water Engineers | | |
| <i>Contractor:</i> Total Concrete Services Inc. | | |