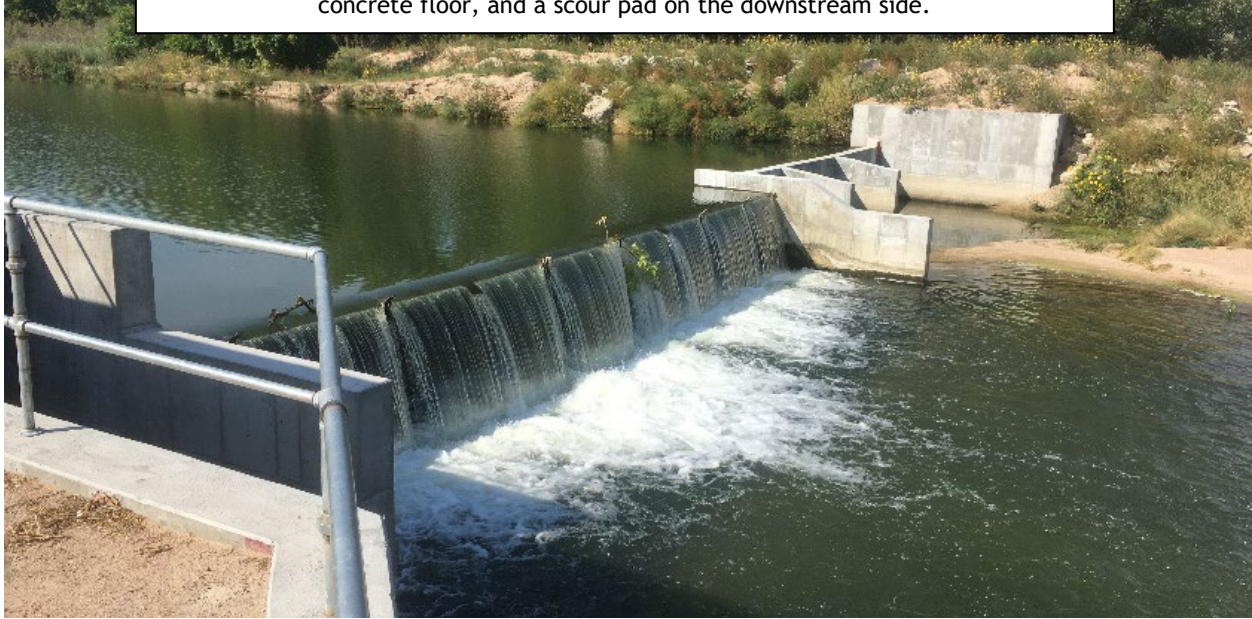




Diversion Structure Rehabilitation

South Platte Ditch Company
Substantially Complete May 1, 2023

The rehabilitated diversion structure offers more efficient and precise control of diversions into the South Platte Ditch. It features new bladder gates, and improved concrete floor, and a scour pad on the downstream side.



Project Description

The South Platte Ditch Company (Company) is a mutual ditch company that was incorporated in 1881. It provides direct flow irrigation water to 20 shareholders with approximately 4,440 acres in Washington and Logan counties between Atwood and Sterling. Shareholders grow primarily corn, alfalfa, beans, and sugar beets.

The original diversion structure was constructed in the early 1900s and underwent rehabilitation in 1997 to repair damage resulting from a flood in 1995. At that time, the Company decided to add a bladder gate, radial gate, and control building to improve operations. Since then, sand laden water damaged the bladder gate system, downstream concrete floor, and has eroded the downstream channel between 2 and 3 feet, with the downstream face of the structure being undermined. This project replaced the bladder gate components, overlaid the damaged structure floor, and installed a scour pad in the downstream channel floor with energy dissipation improvements. Construction began in December 2021.

| P R O J E C T D A T A | | |
|--|---------------------------|---|
| <i>Sponsor:</i> South Platte Ditch Company | <i>County:</i> Washington | <i>Water Source:</i> South Platte River |
| <i>Type of Project:</i> Diversion Replacement | | <i>Board Approval Date:</i> May 2021 |
| <i>Loan Terms: (Original) \$1,075,650 @ 1.10% (Final) \$1,453,779.19 @ 1.10%</i> | | |
| <i>Design Engineer:</i> Harris Engineering Consultants, Inc. | | |
| <i>Contractor:</i> Ransom Boone Excavating | | |