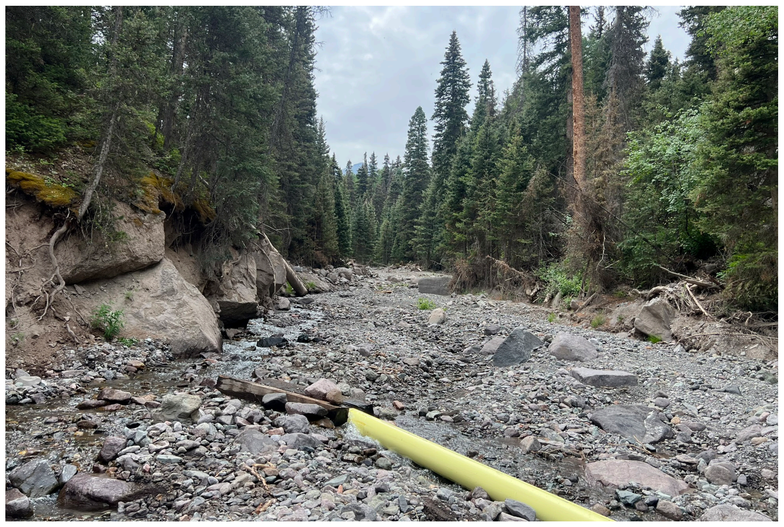
RIDGWAY BEAVER CREEK DIVERSION RESTORATION

Project Location: Ridgway, Colorado | **Client:** Town of Ridgway, Colorado | **Client Location:** Ridgway, Colorado

ENTERING FIRM: RESPEC | DENVER, COLORADO

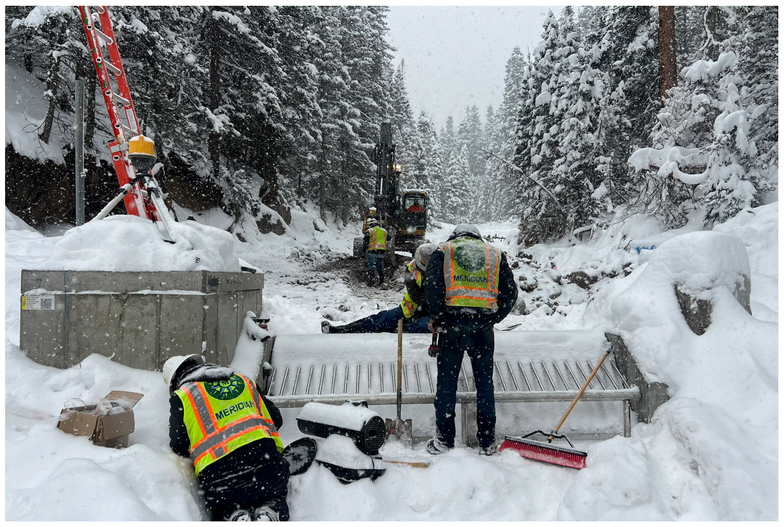
A RESILIENT DIVERSION FOR A CHANGED STREAM

The Town of Ridgway Beaver Creek Diversion Restoration project restored raw-water service in Ridgway, Colorado, where a debris flow buried the Town's diversion and altered the stream channel. The project restored the Town's primary water source before another winter and offered an approach to remote diversion design that responds to changing stream conditions, limited site access, and local fabrication constraints and can benefit communities facing similar challenges.

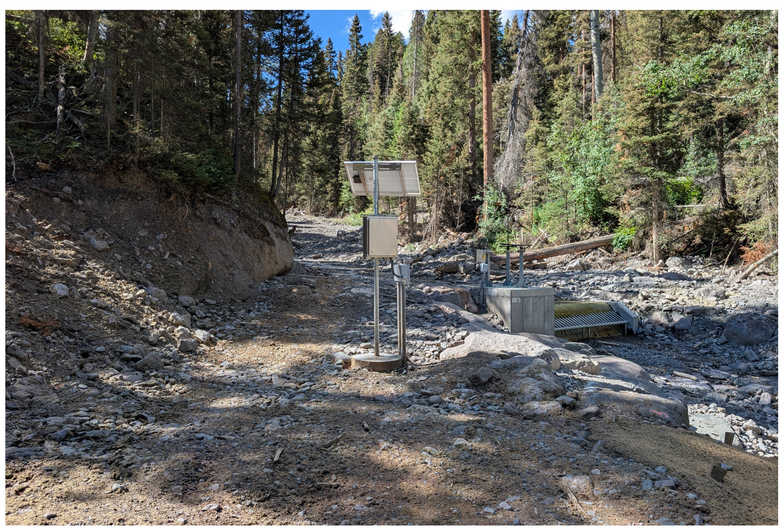


1) The Town constructed a temporary diversion pipe to supply drinking water during the spring and summer of 2025. This location was determined to be the best choice for the final diversion structure.

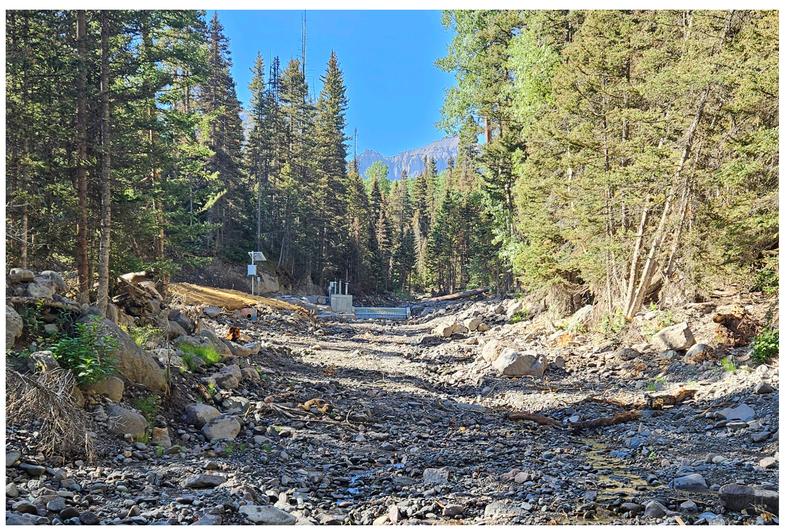
2) Aerial image from RESPEC LIDAR Drone of the post-flood project site during first site visit after snowmelt showing the extent of channel movement, widening, and degradation.



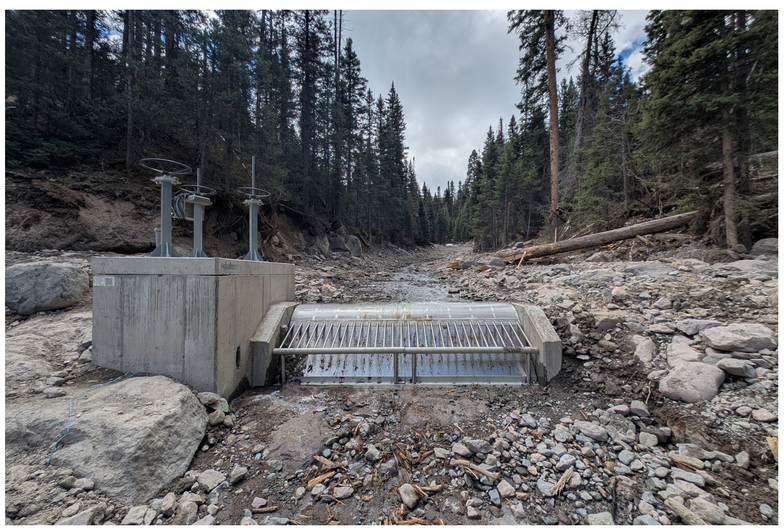
3) The pipeline and Coanda screen were installed in December and captured raw water through the winter of 2025.



4) The diversion structure and control facilities were designed to minimize the visual impact on the landowner's private property and provide the desired diversion rate with remote-control gate operations.



5) Channel geomorphology was a key consideration during design, and the channel was restored to a stable configuration using native logs, boulders, and soil lifts.



6) The Coanda screen works with a junction box, which has self-actuating gates for fully remote flow control to reduce the number of site visits and remain in compliance with water-rights priorities.