

Irrigation Consulting Services

- Design and Rehabilitation of Canal Systems
- Ditch-to-Pipeline Conversions
- Dam and Diversion Design
- Pipe System Design
- Pipe and Sprinkler Systems
- Drainage Design
- System-wide Evaluations
- Feasibility Studies
- Design Reports
- Permit and Grant Applications
- Asset Management Plans



**MOSS SCREEN AND DITCH-TO-PIPELINE
CONVERSION**
Eden Valley, Wyoming



NRCS-FUNDED PRESSURE PIPE REHAB
Aberdeen, Idaho



CANAL CHECK AND FIELD TURNOUT
Hopkins Producers, Buffalo, Wyoming

Water is a precious resource in the arid west of the United States. And Nelson Engineering has the requisite broad-spectrum irrigation engineering expertise to help make the most of it. From an understanding of agricultural economy and crop water needs to hydraulics and hydrology, we have the experience, skill, and knowhow.



CROWHEART AREA/DINWOODY CANAL COMPREHENSIVE INVENTORY & STUDY
Crowheart, Wyoming

Nelson Engineering has served irrigation districts since 1964. We designed one of the first Wyoming Water Development Commission (WWDC) projects, the LaPrele Irrigation System, near Douglas. We have since been the lead engineer on over 30 projects funded by WWDC. In 1993, Nelson Engineering was awarded the Wyoming Engineering Society's "Project of the Year" for our design of the Hunt Canal Diversion in Bighorn County. It required a creative use of hydraulic principles and necessitated a short, intense construction schedule. More recently, we have employed innovative materials for moss screens in Farson and large diameter HDPE pipe in Lovell.

When we design irrigation improvements, we take the entire system into account. We perform an intense field investigation to determine on-the-ground conditions. Our surveyors complete mapping, our geologists look at soils, our engineers evaluate structures and measure flows. And we listen: we interview land owners, irrigators, ditch riders, and supervisors. We have discovered that this process keeps the owner involved throughout the decision-making process. The end result is a design tailored to the owner's operational needs.

When you hire Nelson Engineering, you partner with some of the most experienced irrigation engineers in Wyoming. Our professional expertise encompasses all phases of planning, design, and construction management for irrigation projects. From a feasibility study to successful, completed construction, we can help you use your irrigation water more efficiently.