

BIG ELK MEADOWS ASSOCIATION RAW WATER SYSTEM IMPROVEMENTS PROJECT



Before and after photos of the Meadow Lake outlet structure

Project Description

The Big Elk Meadows Association requested a loan for improvements to its raw water system which serves Big Elk Meadows, a 205-lot subdivision with 160 residences distributed across 460 acres. During an SEO inspection of the Association's raw water system and review of its water accounting practices it was determined the outlet conduit from Meadow Lake Dam was collapsing and becoming inoperable and it was determined that the Association had no accurate means to gauge flows and accurately control reservoir release rates, violating the terms of its 1995 decree regarding return flows. The SEO required that the Association improve their raw water system and accounting protocol in order to function safely and in compliance with its decrees. Project improvements included: Meadow Lake Dam outlet replacement, raw water monitoring equipment installation, and installation of an ISH Reservoir augmentation outfall. The project provides the Association the means to monitor and control reservoir releases while satisfying downstream obligations per their augmentation plan.

Project Data

Sponsor: Big Elk Meadows Association

County: Boulder/Larimer

Water Source: West Fork of the Little Thompson River

Substantial Completion: February 1, 2013

Terms of Loan (Contract # C150327): \$272,700 for 30 years @ 4.50%

Design Engineer: Gauthiere Engineering, Greeley, CO

Contractor: T&G Enterprises (Ackerman Excavating), Lyons, CO

Project Elements: 500 CY of excavation/material placement, place 300 CY rip-rap, place 25 CY of concrete (2 structures), install multiple butterfly valves (6" – 12")