

# Shadow Mountain Connecting Channel Rehabilitation Project

*April 2010 Update*



The Shadow Mountain Connecting Channel structure is located between Grand Lake and Shadow Mountain Reservoir and was constructed in late 1944/45 as part of the Colorado-Big Thompson Project. The SMCC structure maintains the water level in Grand Lake within 12 inches of the high water line when the level of Shadow Mountain Reservoir is lowered. The U.S. Bureau of Reclamation modified the structure in 1963 to provide a boat access between the two water bodies and maintain pedestrian access over the channel.

## Key features

Northern Water and Reclamation will work jointly to rehabilitate the connecting channel structure. Because it is more than 50 years old the project must comply with the National Historic Preservation Act.

Construction features include:

- Construct cofferdams on the both sides of the structure to temporarily dewater the site
- Extend the structure's existing concrete piers
- Install a new aluminum bulkhead and stop log system
- Rehabilitate deteriorated concrete
- Construct an additional walkway along the east side of the structure
- Replace the deteriorated rail system with a composite material railing
- Install a structural steel gantry support for the new aluminum stop log system
- Construct a loading pad and retaining wall at the north end of the structure

### For additional information:

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## Potential impacts to public

Northern Water and Garney Construction will post informational signs regarding parking, public access and other project details in and adjacent to the construction area.

Potential impacts to the general public during construction (Sept. 7 to Oct. 30) include:

- No pedestrian access to footpath and channel bridge
- Pedestrian access allowed for west portion of Point Park and to access fishing platform
- Designated public parking areas along Cairns Road (no vehicles allowed in the parking lot)
- No boat access through the connecting channel
- Anticipated work hours of 6:30 a.m. to 6:30 p.m. Monday through Saturday, with possible Sundays as requested by contractor
- Noise abatement procedures employed throughout the construction process

## Notifications

- Northern Water will provide the Town of Grand Lake with regular construction updates for publication in local newspapers
- Northern Water will post a schedule of anticipated weekly construction activities on an informational sign adjacent to the construction area

## Timeline

Anderson Consulting Engineers completed the project design in late 2009 and Northern Water awarded a construction contract to Garney Construction in March 2010.

With input from local representatives, Reclamation and Northern Water determined the optimal time period to shut down the connecting channel and rehabilitate the structure would be the month of October 2010.

Garney Construction will also complete several related tasks in September, outside of the channel area, prior to rehabilitating the connecting channel structure.

### April 2010

Notice to proceed with preliminary administrative tasks

### April to August 2010

Process shop drawings and fabricate/deliver critical materials and equipment

### Sept. 7, 2010

Mobilize contractor and begin construction work adjacent to connecting channel on north side

### October 2010

Construction work on connecting channel structure

### Oct. 31 to Nov. 15, 2010

Complete all items, clean up site and demobilize

### May 15, 2011

Complete asphalt replacement and re-vegetate site