

# DAMS, DESIGN & CONSTRUCTION

**JEWELL Engineering Consultants (JEC)** reliable and experienced guidance has overseen multiple dam rehabilitation projects throughout North Carolina. We have performed lake restoration and dam rehabilitation on several surface water reservoirs some as large as 55 acres. Our staff is highly experienced in storm water drainage systems including but not limited to; dams, lakes, detention ponds, flood control, storm water wetlands, culverts and other appurtenances. Following are examples of lake and dam projects that **JEC** has completed.

## DAMS/LAKES RESTORATION - REHABILITATION

### DAM REHABILITATION



**Holly Hill Dam,  
Murfreesboro, NC**



**Holly Hill Dam,  
Murfreesboro, NC**

**Century Dam,  
Kernersville, NC**



**BEFORE**



**Century Dam,  
Kernersville, NC**



**AFTER**

**Holly Hill Dam:** This project began on September 18, 2003 when Hurricane Isabel struck mightily in the historic Town of Murfreesboro and caused significant damage to Holly Hill Road Dam and the surrounding community. The dam is located immediately upstream of Chowan College and is classified as high hazard by NC Dam Safety. The dam, which was built in the 1950's, sustained substantial damage from large uprooted trees as well as drainage problems along the road and spillway system. The repairs included concrete repairs to the spillway and bridge, pressure grouting of voids beneath the concrete spillway slab, construction of a new siphon bottom drain, construction of a sediment control and trash guard system at the inlet of the new siphon, pressure grouting and

abandonment of a corroded corrugated metal pipe bottom drain, construction of a weighted filter over the outlet area of the abandoned bottom drain pipe, abandonment of a non-

essential water main across the dam, and removal and replacement of the roadway across the dam embankment.

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