

Lake Restoration and Dam Rehabilitation

JEWELL Engineering Consultants (JEC) offers extensive experience when it comes to restoring lakes and designing new dams or rehabilitating older existing dams. **JEC** has assisted communities, corporations and individual lake owners to improve the safety, structural integrity and beauty of existing lakes. **JEC** provides construction drawings, construction administration, hydraulic and hydrologic analysis, prepares Emergency Action Plans (EAP's), and obtains necessary permitting for lake restoration and dam installation or rehabilitation.

LAKES AND DAMS



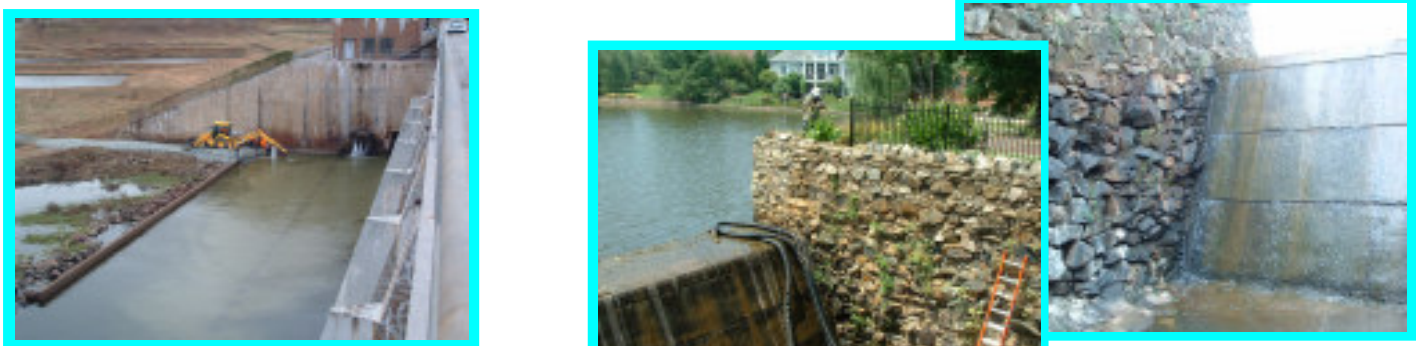
Project Examples Include:

**Eastwood Lake Dam,
Chapel Hill, NC**

RESTORATION OF EASTWOOD LAKE AND DAM, CHAPEL HILL, NC

Eastwood Lake is a fifty-year-old lake that has been subjected to severe sedimentation due to accelerated land development of the contributory watershed. The owners association sought to remove sediment and restore lake function for water quality and recreation purposes. Phase 1 of the project was to develop conceptual plans for sediment removal and future sediment management, including identification of permitting requirements. Phase 2 was to prepare construction and permit documents and to oversee the work of sediment removal. Over 6,000 tandem truckloads of sediment were removed from the lake. Phase 3 was to design restoration improvements and obtain State Dam Safety approvals for the restoration of the old stone masonry dam. Phase 4 was to oversee the dam restoration construction. The lake excavation was completed and the dam was repaired and returned to service in 2002.

LAKE TOWNSEND DAM & NORTHLINE DAM RESTORATIONS, GREENSBORO, NC



**Lake Townsend Dam,
Greensboro, NC**

**Northline Dam,
Greensboro, NC**



P.O. 2294
Kernersville, NC 27285

**Ph (336) 996-9974
Fax (336) 996-9976**