



# DEC Engineering, Inc.

Professional Civil Engineering

State Certificate # 4244

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2467 Centerville Road Tallahassee, Florida 32308  
(850) 385-5288 Fax (850) 386-7586 ~ dec@nettally.com

## **Lake Blue Heron**

### **Comparison – As-Built to Pre Conditions**

#### **Narrative**

**September 7, 2007**

This project involved the removal of sediment from Lake Blue Heron. Pre conditions were exhibited by a “Lakewatch” bathymetric survey. Post sediment removal conditions are exhibited by a “Gunn and Associates” topographic survey.

#### **Field Observation**

The sediment removed from the lake was placed in a large stockpile next to the dam. This mountain of sediment was observed during the lake bottom inspection. Using very rough measuring techniques the quantity of material was approximately 15,000 cubic yards.

#### **Map Comparison**

“Color-coded” maps have been developed based upon pre and post conditions and are attached to this narrative. A comparison of the maps shows that a significant amount of material has been removed.

#### **Analytical Comparison**

A comparison of Pre and Post conditions was performed to approximate the amount of material and is shown on the spreadsheet attached to this submittal.

#### **Results**

The results of the analytical survey show that 55,229 cubic yards was removed from the lake. The difference in measured and observed volumes is due to consolidation of the materials.