

CITY OF CUMMING LAKE LANIER RAW WATER INTAKE DIVISION I, II, AND III CUMMING, GEORGIA



Project Description

The City of Cumming, GA has seen substantial growth over the recent past. To meet the water demand generated by this growth, the City contracted with Reynolds for the construction of a new raw water intake to more efficiently provide the needed water. This 3-phase project included these major elements: 1) Shaft Excavation and water intake tunnel, 2) 78" raw water piping on lake bottom, 3) Raw Water Pump Station.

Built on the edge of Lake Sidney Lanier, the intake shaft and water intake pipe were constructed within weak, saturated residual soils, overlaying dense to very hard partially weathered rock and bed rock formations. Following a 60' in diameter x 65 VF in depth shaft, a 66" tunnel was constructed from the shaft out to a large excavation on the lake bottom to carry water back to the pump station wet well. Additionally, 3000 LF of 78" spiral welded steel pipe was installed from the intake tunnel out to deeper water. Final elements of construction include the 50 MGD raw water pump station and 42" diameter raw water transmission main.

At a Glance

Contract Amount:
\$14.7 M

Notice to Proceed:
September 1, 2008

Completion Date:
March 31, 2012

MGD:
50

Owner:
City of Cumming

Engineer:
Civil Engineering Consultants,
Inc.