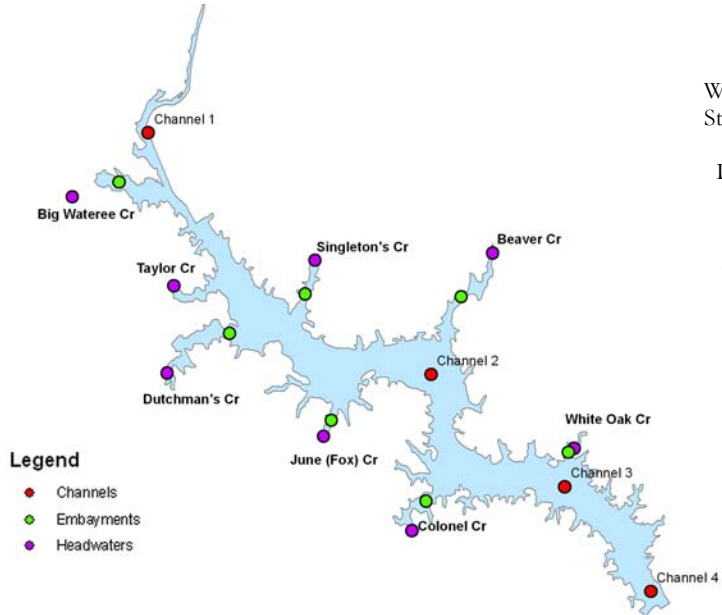


Report on Sample Run September 10, 2009

Our latest sample run was completed on Thursday, September 10th, 2009 at all twenty sample sites. Randy Kelly, Sara Powell and Dick Foote sampled the headwaters in the WaterWatch boat which appears now to be in fine fettle. The embayments and channels were sampled by Scott and Ann Sutherland, Ron Kadan and Buz Kloot. Conditions were close to perfect for a good day's sampling.



Weather Conditions at Wateree Dam
Stn ID: 388979

Day	Thur 10th	Wed 11th	Prev. 7 days
Max Temp	87	93	93
Min Temp	65	67	58
Avg. Temp	76	80	75.8
Rainfall (in.)	0.12	0.21	0.33

Of the 52 surface water samples taken (i.e., those at 1 ft below the surface) 88% were in compliance with SCDHEC water quality criteria. One headwater sample (Big Wateree Creek Headwater) exceeded the SCDHEC criterion for turbidity (criterion is 25 NTU, the sample read 34 NTU). Five embayments (Dutchman's, Big Wateree Creek, June, Taylor and Singleton) showed pH's that exceeded the state's pH=8.5 criterion. Singleton Creek (pH=9.03) and Taylor Creek (pH=8.89) were once again at the top of the list.

We were pleasantly surprised to see that no DO concentrations at the surface were below 5 mg/L. Once again, in almost all embayment and in the channels, we did notice that, as we measured close to the bottom of the lake, DO concentrations dropped to very low levels (<2 mg/L) – this is to be expected at this time of year in a eutrophic lake.

The error on the Eureka's pH probe carried over from last month. We originally thought this was a calibration error, but on further investigation, discovered that the probe itself was faulty – this may require the sonde to make another trip to the manufacturers.