

Appendix V

Other Water Quality Data in the Roanoke River Basin

Other Water Quality Research

North Carolina actively solicits "existing and readily available" data and information for each basin as part of the basinwide planning process. Data meeting DWQ quality assurance objectives are used in making use support determinations. Data and information indicating possible water quality problems are investigated further. Both quantitative and qualitative information are accepted during the solicitation period.

High levels of confidence must be present in order for outside quantitative information to carry the same weight as information collected from within DWQ. This is particularly the case when considering waters for the Impaired categories in the Integrated Report (303(d) list). Methodology for soliciting and evaluating outside data is presented in *North Carolina's 2002 Integrated Report* http://h2o.enr.state.nc.us/tmdl/Docs_303/2002/2002%20Integrated%20Rept.pdf (Appendix I). The next data solicitation period for the Roanoke River Basin is planned for fall 2008.

DWQ data solicitation includes the following:

- Information, letters and photographs regarding the uses of surface waters for boating, drinking water, swimming, aesthetics and fishing.
- Raw data submitted electronically and accompanied by documentation of quality assurance methods used to collect and analyze the samples. Maps showing sampling locations must also be included.
- Summary reports and memos, including distribution statistics and accompanied by documentation of quality assurance methods used to collect and analyze the data.

Contact information must accompany all data and information submitted.

Any data submitted to DWQ from other water sampling programs conducted in the Roanoke River basin have been reviewed. Data that meet quality and accessibility requirements were considered for use support assessments and the 303(d) list. These data are also used by DWQ to adjust the location of biological and chemical monitoring sites.

In particular, DWQ use data collected by the U.S. Geological Survey (USGS) at five sites in the lower Roanoke River. USGS used a continuous monitoring (15-minute intervals) in situ multiparameter water-quality sensor connected to a data logger to collect specific conductance, pH, water temperature, and DO concentration. DWQ also used NC Department of Health and Human Services fish consumption advisories and advice. For more information regarding fish consumption advisories, call (919) 707-5900 or visit the NC DHHS Division of Public Health website at <http://www.schs.state.nc.us/epi/fish/current.html>. These data were used by DWQ to assign use support ratings.

Subbasin	Station Number	AU Number	Sampling Location	Data Source
03-02-08	NA23	23-(26)a	Roanoke River at Halifax, NC	USGS
03-02-08	NA24	23-(26)b1	Roanoke River at Oak City, NC	USGS
03-02-09	NA25	23-(26)b2	Roanoke River at SR1100 near Grabtown, NC	USGS
03-02-09	NA27	23-(26)b3	Roanoke River at Jamesville, NC	USGS
03-02-09	NA26	23-(53)	Roanoke River at NC 45 near Westover, NC	USGS

