

Appendix V

Other Water Quality Data in the French Broad 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*, which is available on-line at http://h2o.enr.state.nc.us/tmdl/Docs_303/2002/2002_Integrated_Rept.pdf. The next data solicitation period for the French Broad River is planned for fall 2006.

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 French Broad 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 has reviewed and considered information developed through the Volunteer Water Information Network (VWIN) as managed by the UNC-Asheville Environmental Quality Institute. Other programs or research that developed data or information are presented in individual subbasin chapters.

Each county with monitoring stations has a coordinator to organize and train volunteers and to ensure that all stations are monitored monthly. The Asheville Metropolitan Sewerage District is the lead coordinator in Buncombe County and the program is funded internally. Additional special project monitoring sites have been added through funding by Land-of-Sky Regional Council, the Elisha Mitchell Audubon Society, and the Buncombe Soil and Water Conservation District. The Haywood Waterways Association is the lead coordinator in Haywood County and the program is funded through the Pigeon River Fund. The Environmental and Conservation Organization (ECO) is the lead coordinator in Henderson County and the program is funded through the Henderson County Board of Commissioners, the Dornick Foundation, and the Town of Lake Lure. The Madison County Soil and Water Conservation District is the lead coordinator in Madison County and the program is funded through the Pigeon River Fund and the Dornick Foundation. Brevard College is the lead coordinator in Transylvania County and the program is funded through the Dornick Foundation. The subbasin chapters discuss streams where VWIN monitoring revealed water quality impacts.

In the French Broad River basin, VWIN monitors 141 sites, which are listed in the following table. These sites generally agree with DWQ ambient monitoring data, but were not used directly in use support assessments. VWIN has collected at least seven years of monthly data for most sites and over ten years of monthly data for many sites. Parameters monitored include major nutrients, turbidity, suspended solids, pH, alkalinity, conductivity and heavy metals such as zinc, copper and lead.

County	Stream Name	Sampling Location
Buncombe	Big Ivy	Forks of Ivy
	Little Ivy	Forks of Ivy
	Lower Sandymush Creek	NC 64 – Buncombe / Madison Border
	Upper Sandymush Creek	Garret Cove Road
	Sandymush Creek	Willow Creek Road
	Ox Creek	Ox Creek Road
	Lower Newfound Creek	Jenkins Valley Road
	Reems Creek	Ox Creek Road
	French Broad River	Ledges Park / NC 251
	Reems Creek	US 25 / 70
	Reed Creek	UNCA Botanical Gardens
	Glenn Creek	UNCA Botanical Gardens
	Beaverdam Creek	Merrimon Avenue / Beaver Lake
	Bee Tree Creek	Beetree Road near Owen Lake
	Swannanoa River	Near Beetree Road at Owen Lake
	Bull Creek	Old Farm School Road
	Hominy Creek	NC 151
	South Hominy Creek	NC 151
	Bent Creek	Bent Creek Park on NC 191
	French Broad River	Bent Creek Park on NC 191
	French Broad River	Corcoran Park / Glenn Bridge Road
	Flat Creek	Lower Flat Creek Road and Edna Roberts Road
	Cane Creek	HWY 74 and Cane Creek Road
	Ashworth Creek	HWY 74 and Cane Creek Road
	Cane Creek	Mills Gap Road
	Robinson Creek	Cane Creek Road near Mills Gap Road
	Swannanoa River	NC 81
	Haw Creek	NC 81
	Reems Creek	Reems Creek Road
	Ivy Creek	Buckner Branch Road
	Paint Fork	Paint Fork Road in Barnardsville
	Ivy Creek	Dillingham Road

	French Broad River	Jean Webb Park / Riverside Drive
	Swannanoa River	Railroad bridge near NC 70
	South Turkey Creek	Turkey Creek Road
	North Turkey Creek	North Turkey Creek Road
	Flat Creek	US 19 / 23
	Bent Creek	Downstream from Lake Powhatan
	Averys Creek	Glenn Bridge Road
	Grassy Branch	Hickory Tree Road
	Swannanoa River	Azalea Road
	French Broad River	Walnut Island Park / NC 251
	North Fork of the Swannanoa River	Grovestone Quarry
	Lower Hominy Creek	SR 191
	Smith Mill Creek	Louisiana Avenue
	Newfound Creek	Dark Cove Road
	Newfound Creek	Leicester HWY (NC 63)
	Swannanoa River	Bull Creek confluence near Old Farm School Road
	South Creek	Beaver Lake / Merrimon Avenue
	Ross Creek	Lower Chunns Cover Road bridge
	Ross Creek	Tunnel Road
	Ross Creek	Upper Chunns Cove Road
	Ross Creek	NC 81
	Swannanoa River	Thompson Street / Biltmore Village
	Sweeten Creek	Thompson Street / Biltmore Village
	Reed Creek	Entrance to UNCA
	South Creek	Pond at Beaver Lake
Haywood	West Fork of the Pigeon River	Bethel
	East Fork of the Pigeon River	Bethel
	East Fork of the Pigeon River	Cruso / Shining Rock
	Pigeon River	Downstream from Canton
	Pigeon River	Hepco Bridge
	Rush Fork	Crabtree
	Fines Creek	Near confluence with Pigeon River
	Eaglenest Creek	Hazelwood (Richland Creek watershed)
	Plott Creek	Hazelwood (Richland Creek watershed)
	Richland Creek	West Waynesville
	Richland Creek	Lake Junaluska
	Jonathans Creek	Near confluence with Pigeon River
	Allens Creek	Richland Creek watershed
	Rush Fork	Upstream

	Fines Creek	Midstream
	Fines Creek	Upstream
	Cove Creek	HWY 209 and Fines Creek Road
	Hyatt Creek	Upstream
	Hyatt Creek	Downstream
	Ratcliff Cove Branch	Francis Farm Road
	Raccoon Creek (upstream)	Ratcliff Road
	Raccoon Creek (downstream)	Industrial Park
	Crabtree Creek	Upper Crab Creek Road (SR 1509)
	Jonathon Creek	Maggie Valley / Moody Farm Road (SR 1309)
Henderson	French Broad River	Banner Farm Road in Horseshoe
	French Broad River	Butler Bridge Road
	Mud Creek	Erkwood Road
	Mud Creek	North Rugby Road
	Clear Creek	Nix Road
	Crab Creek	Staton Road
	North Fork of Mills River	LL Moore Road
	South Fork of Mills River	South Mills River Road
	Mills River	HWY 191 (Davenport Bridge)
	Mills River	Hooper Lane
	Boylston Creek	Ladson Road
	Bat Fork Creek	Tabor Road
	Cane Creek	Hoopers Creek / Howard Gap Road
	Lower Cane Creek	HWY 25
	Mud Creek	7 th Avenue East
	Clear Creek	Apple Valley Road
	Hoopers Creek	Jackson Road
	Big Willow Creek	Patterson Road
	Little Willow Creek	River Road
	Gash Creek	Etowah School Road
	Brittain Creek	Patton Park
	Mill Pond Creek	South Rugby Road
	Shaw Creek	Hunters Glen
	Brandy Branch	Mills River Village on NC 191
	Devils Fork	Dana Road
Madison	Ivy River	25/70
	French Broad River	Barnard Bridge
	French Broad River	Hot Springs
	East Fork of Bull Creek	

	Big Laurel Creek	
	Big Pine Creek	
	Spring Creek	
	Little Laurel Creek	
	Shelton Laurel Creek	
	Big Laurel River	
	Bull Creek	
	Grapevine Creek	
	California Creek	Beech Glen
	Middle Fork	Beech Glen
	Paint Fork	Beech Glen
	Ivy River	Gabriels Creek Road
	Gabriel's Creek	
Transylvania	French Broad River	Mount Lyon Road / Rosman
	East Fork of the French Broad River	Rosman
	North Fork of the French Broad River	64/215
	West Fork of the French Broad River	64/215
	Little River	Dupont Road
	French Broad River	Everett Road
	Williamson Creek	
	Davidson River	Entrance to Pisgah National Forest
	King Creek	Brevard College
	King Creek	Headwaters
	Davidson River	Confluence with French Broad River
	Lamb Creek	Headwaters
	Lamb Creek	Confluence with French Broad River
	French Broad River	Wilson Road
	Little River	Sherwood Forest
	North Fork of French Broad River	Macedonia Bridge
	North Fork of French Broad River	Headwaters
	West Fork of French Broad River	Upstream
	Catheys Creek	Upstream of water supply