

03050106-06
(*Cedar Creek*)

General Description

Watershed 03050106-06 (formerly 03050106-090) is located in Fairfield and Richland Counties and consists primarily of *Cedar Creek* and its tributaries. The watershed occupies 64,581 acres of the Piedmont region of South Carolina. Land use/land cover in the watershed includes: 75.1% forested land, 14.8% agricultural land, 6.8% urban land, 1.3% forested wetland, 0.7% scrub/shrub land, 0.7% water, and 0.6% barren land.

Big Cedar Creek originates near the Town of Ridgeway and accepts drainage from Center Creek (Rock Dam Creek), Persimmon Fork, Horse Creek, Williams Branch (Big Branch), and Little Cedar Creek (Crooked Run Creek, Bethel Pond, Smith Branch, Chappel Branch). Big Cedar Creek merges with Harmon Creek (Little Horse Branch, Elkins Creek) to form Cedar Creek, which flows into the Broad River. There are a total of 135.6 stream miles and 163.9 acres of lake waters in this watershed, all classified FW.

Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
B-320	W/BIO	FW	BIG CEDAR CREEK AT SC 215
RS-02453	INT	FW	BIG CEDAR CREEK AT SC 215

Big Cedar Creek (B-320/RS-02453) – Aquatic life uses are fully supported; however, there are significant increasing trends in five-day biochemical oxygen demand and total nitrogen concentration. A significant increasing trend in dissolved oxygen concentration suggests improving conditions for this parameter. Very high concentrations of cadmium were measured in the 2003 and 2004 sediment samples. Recreational uses are not supported due to fecal coliform bacteria excursions.

Groundwater Quality

<u>Well #</u>	<u>Class</u>	<u>Aquifer</u>	<u>Location</u>
AMB-058	GB	PIEDMONT BEDROCK	RIDGEWAY

NPDES Program

Active NPDES Facilities

<i>RECEIVING STREAM FACILITY NAME PERMITTED FLOW @ PIPE (MGD) COMMENT</i>	<i>NPDES# TYPE LIMITATION</i>
CENTER CREEK TOWN OF RIDGEWAY WWTP PIPE #: 001 FLOW: 0.12	SC0022900 MINOR DOMESTIC
PERSIMMON FORK TRIBUTARY L DEAN WEAVER/HAGOOD MINE PIPE #: 001 FLOW: M/R	SCG730394 MINOR INDUSTRIAL

Nonpoint Source Management Program

Land Disposal Activities

Landfill Activities

<i>SOLID WASTE LANDFILL NAME</i> <i>FACILITY TYPE</i>	<i>PERMIT #</i> <i>STATUS</i>
TRAPP/DERRICK LANE ST C&D LANDFILL CONSTRUCTION	202900-1301 INACTIVE
MITCH HOOK WOOD COMPOSTING COMPOSTING	402696-3001 ACTIVE

Growth Potential

There is a low potential for growth in the majority of this watershed. Portions of the Towns of Ridgeway and Blythewood are located along the eastern edge of the watershed. Water and sewer services are available in the Blythewood area, which is expected to be a moderate to high growth area.

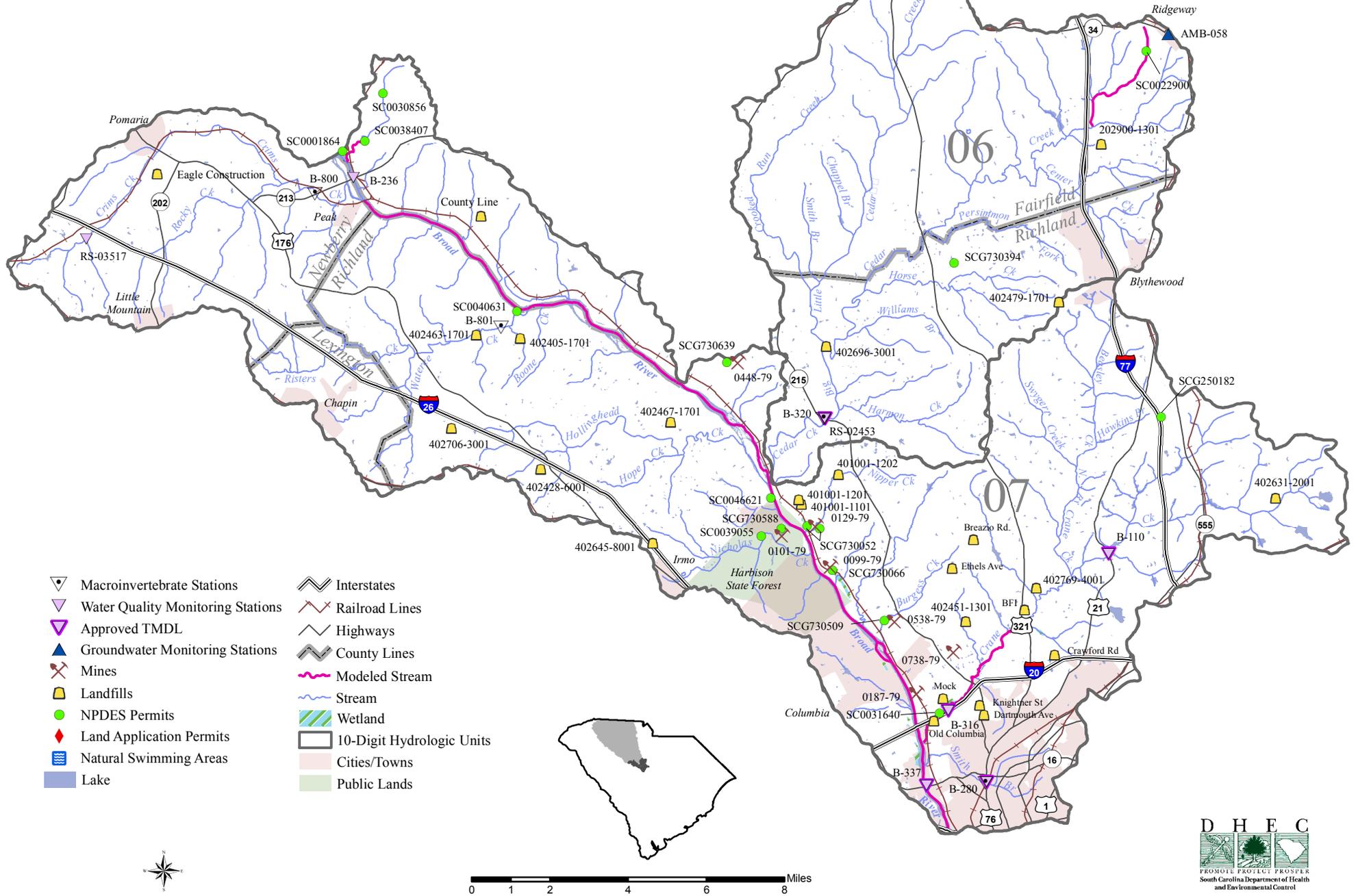
Watershed Protection and Restoration Strategies

Total Maximum Daily Loads (TMDLs)

A total maximum daily load (TMDL) for fecal coliform was developed for *Cedar Creek* in 2000. Levels of fecal coliform bacteria can be elevated in water bodies as the result of both point and nonpoint sources of pollution. Between 1991 and 1995, 25% of the samples collected at station **B-320** exceeded the 400 colonies/100ml standard. Targeting agricultural land for reduction of bacteria is the most effective strategy for this watershed. A target level for fecal coliform bacteria of 175 colonies/100ml was established. This translates to an agricultural bacterial loading reduction of 52%. Forested lands are not targeted for reduction, as there are currently no acceptable means of reducing fecal coliform sources within that land use. There are several tools available for implementing this TMDL, including Nonpoint Source (NPS) pollution outreach activities and materials. SCDHEC will continue to monitor water quality in Cedar Creek to evaluate the effectiveness of these measures.

Funding for TMDL implementation activities is currently available. For more information, see the Bureau of Water web page www.scdhec.gov/water or call the Watershed Program at (803) 898-4300.

Broad River and Cedar Creek Watersheds (03050106-06, -07)



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|--|-----------------------------------|--|---------------------------|
| | Macroinvertebrate Stations | | Interstates |
| | Water Quality Monitoring Stations | | Railroad Lines |
| | Approved TMDL | | Highways |
| | Groundwater Monitoring Stations | | County Lines |
| | Mines | | Modeled Stream |
| | Landfills | | Stream |
| | NPDES Permits | | Wetland |
| | Land Application Permits | | 10-Digit Hydrologic Units |
| | Natural Swimming Areas | | Cities/Towns |
| | Lake | | Public Lands |