

03040205-02

(Black River)

General Description

Watershed 03040205-02 is located in Lee and Sumter Counties and consists primarily of the **Black River** and its tributaries from its origin to Scape Ore Swamp. The watershed occupies 71,944 acres of the Sandhills and the Upper and Lower Coastal Plain regions of South Carolina. Land use/land cover in the watershed includes: 59.1% agricultural land, 23.9% forested wetland, 9.2% forested land, 5.8% urban land, 1.2% nonforested wetland, 0.6% barren land, and 0.2% water.

The Black River originates near the City of Bishopville and accepts drainage from Gin Branch (Laws Branch), Broad Branch, Church Branch (Meadow Branch), and Casual Branch. Further downstream, Stony Run Branch (Little Stony Run Branch) enters the river followed by Nancy Branch, the Atkins Drainage Canal, and another Church Branch. There are 173.5 stream miles and 67.6 acres of lake waters in this watershed. The Black River is classified FW* (Dissolved oxygen not less than 4.0 mg/l and pH between 5.0 and 8.5) and the remaining streams in the watershed are classified FW.

Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
PD-354	INT	FW	CANAL TO ATKINS DRAINAGE CANAL AT SC 527 (.75 MI N OF US 76)
PD-353	INT	FW*	BLACK RIVER AT S-43-57

Canal to Atkins Drainage Canal (PD-354) – Aquatic life uses are not supported due to dissolved oxygen and pH excursions. In addition, there is a significant increasing trend in total nitrogen concentration. Recreational uses are fully supported.

Black River (PD-353) – This is a blackwater system, characterized by naturally low dissolved oxygen conditions. Although dissolved oxygen excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standards violations. Aquatic life uses are fully supported. A significant decreasing trend in turbidity suggests improving conditions for this parameter. Recreational uses are partially supported due to fecal coliform excursions, which are compounded by a significant increasing trend in fecal coliform bacteria.

*A fish consumption advisory has been issued by the Department for mercury and includes the **Black River** within this watershed (see advisory p.75).*

NPDES Program

Active NPDES Facilities

RECEIVING STREAM
FACILITY NAME

NPDES#
TYPE

BLACK RIVER TRIBUTARY
THE BURKE COMPANY/BURKE MINE

SCG730597
MINOR INDUSTRIAL

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

<i>LANDFILL NAME</i> <i>FACILITY TYPE</i>	<i>PERMIT #</i> <i>STATUS</i>
LEE COUNTY LANDFILL MUNICIPAL	312411-1101 ACTIVE
LEE COUNTY LANDFILL COMPOSTING	312411-3001 INACTIVE

Mining Activities

<i>MINING COMPANY</i> <i>MINE NAME</i>	<i>PERMIT #</i> <i>MINERAL</i>
THE BURKE COMPANY BURKE MINE	1601-61 SAND; SAND/CLAY; SOIL

Land Application Sites

<i>LAND APPLICATION SYSTEM</i> <i>FACILITY NAME</i>	<i>ND#</i> <i>TYPE</i>
SPRAYFIELD TOWN OF MAYESVILLE	ND0069787 DOMESTIC

Growth Potential

There is a low to moderate potential for growth in this watershed, which contains a portion of the City of Bishopville and the Town of Mayesville, together with portions of I-20, U.S. Hwy. 15, and U.S. Hwy. 76. Residential, commercial, and industrial growth is expected surrounding the municipal areas and major road corridors. The remainder of the watershed is rural with agricultural and timberland uses.

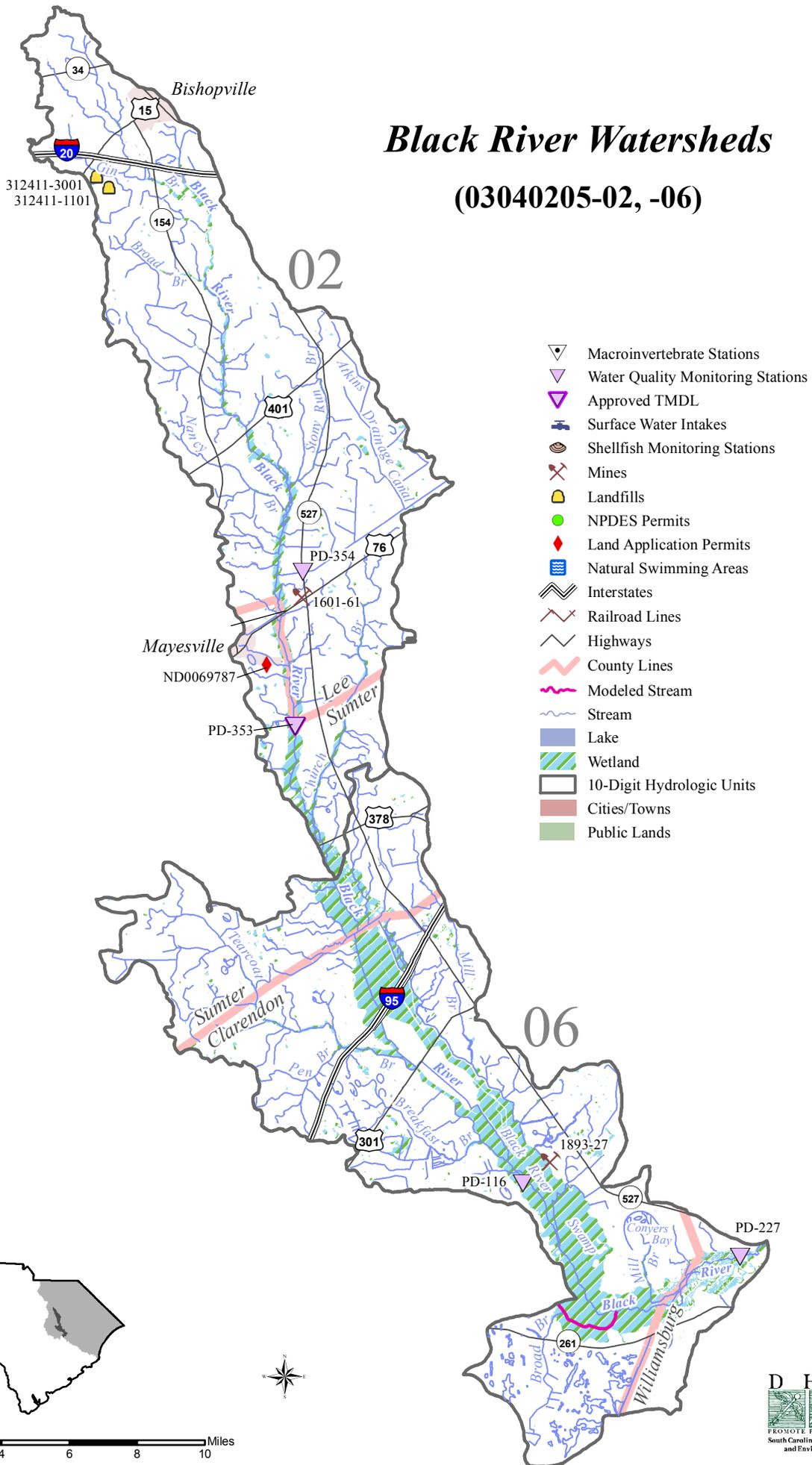
Watershed Restoration and Protection

Total Maximum Daily Loads (TMDLs)

A fecal coliform TMDL has been developed by SCDHEC and approved by the USEPA for the water quality monitoring site *PD-353* on the *Black River*. Potential causes of the fecal coliform impairment that were identified in the TMDL were agricultural runoff, failing septic systems, and surrounding wildlife. In order to achieve the TMDL target load (slightly below water quality standards) for this portion of the Black River watershed, reductions in the existing bacterial loads of up to 16 % will be necessary at station PD-353.

Black River Watersheds

(03040205-02, -06)



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

