03040207-01

(Sampit River)

General Description

Watershed 03040207-01 is located in Georgetown County and consists primarily of the ***Sampit River*** and its tributaries. The watershed occupies 105,287 acres of the Lower Coastal Plain and Coastal Zone regions of South Carolina. Land use/land cover in the watershed includes: 56.2% forested land, 24.2% forested wetland, 6.8% agricultural land, 5.3% urban land, 5.0% nonforested wetland, 2.0% water, and 0.5% barren land.

Bond Swamp (Boety Bay, Mackey Bay, Bino Bay, Canaan Bay, Ditch Branch, Canaan Branch, Summons Swamp) flows into Boggy Swamp (Waterhole Bay, Cherryhill Swamp, Machine Branch, Britt Branch), which forms the Sampit River. The Sampit River accepts drainage from Spring Gully, Little Kilsock Bay, Ports Creek, Canaan Branch, Pennyroyal Creek (Big Kilsock Bay, Flat Bay, Turkey Creek), and Whites Creek before draining into Winyah Bay. There are a total of 166.1 stream miles, 819.8 acres of lake waters, and 1,033.5 acres of estuarine areas in this watershed. The upper reaches of the watershed, including Boggy Swamp and its tributaries are classified FW* (dissolved oxygen not less than 4.0 mg/l and pH between 5.0 and 8/5). The Sampit River is classified FW*/SB dependent on the freshwater inflow from its neighboring rivers (the Great Pee Dee and Waccamaw Rivers), and the remaining streams in the watershed are classified FW.

Surface Water Quality

Station #	Type	Class	Description
MD-075	W	SB/FW*	SAMPIT RIVER BETWEEN MOUTHS OF PORTS CREEK & PENNYROYAL CREEK
MD-076N	W	FW	TURKEY CREEK S-22-42 SW OF GEORGETOWN
MD-149	W	FW	WHITES CREEK 100 YDS UPSTREAM OF JUNCTION WITH SAMPIT RIVER
MD-077	INT	SB/FW*	SAMPIT RIVER AT US 17
MD-073	W	SB/FW*	SAMPIT RIVER OPPOSITE AMERICAN CYANAMID CHEMICAL CO.
MD-074	W	SB/FW*	SAMPIT RIVER AT CHANNEL MARKER #30

Sampit River – There are four SCDHEC monitoring sites along the Sampit River, and recreational uses are supported at all sites. This is a tidally influenced system with limited flushing and significant marsh drainage characterized by naturally low pH and dissolved oxygen conditions. At the furthest upstream site ***(MD-075)***, aquatic life uses are not supported due to dissolved oxygen excursions. Although pH excursions occurred, they were typical of values seen in tidally influenced systems and were considered natural, not standards violations.

At the next site downstream ***(MD-077)***, aquatic life uses are partially supported due to dissolved oxygen excursions. In addition, there is a significant increasing trend in five-day biochemical oxygen demand. At the furthest two downstream sites ***(MD-073, MD-074)***, aquatic life uses are partially supported due to dissolved oxygen and pH excursions.

Turkey Creek (MD-076N) – Aquatic life and recreational uses are fully supported. This is a tidally influenced system with limited flushing and significant marsh drainage characterized by naturally low pH conditions. Although pH excursions occurred, they were typical of values seen in such systems and were considered natural, not standards violations.

Whites Creek (MD-149) – Aquatic life uses are partially supported due to dissolved oxygen. This is a tidally influenced system with limited flushing and significant marsh drainage characterized by naturally low pH conditions. Although pH excursions occurred, they were typical of values seen in tidally influenced systems and were considered natural, not standards violations. Recreational uses are fully supported.

*A fish consumption advisory has been issued by the Department for mercury and includes the **Sampit River** within this watershed (see advisory p.144).*

NPDES Program

Active NPDES Facilities

RECEIVING STREAM ***FACILITY NAME***	***NPDES#*** ***TYPE***
SAMPIT RIVER INTERNATIONAL PAPER CO./GEORGETOWN	SC0000868 MAJOR INDUSTRIAL
SAMPIT RIVER 3V, INC.	SC0036111 MAJOR INDUSTRIAL
SAMPIT RIVER CITY OF GEORGETOWN WWTP	SC0040029 MAJOR DOMESTIC
SAMPIT RIVER ARCELORMITTAL GEORGETOWN INC.	SC0001431 MAJOR INDUSTRIAL
TURKEY CREEK SCPSA/WINYAH STEAM STATION	SC0022471 MAJOR INDUSTRIAL
CANAAN BRANCH TRIBUTARY HOWCOX LLC/LIVE OAK TERRACE MINE	SCG731194 MINOR INDUSTRIAL
SAMPIT RIVER TRIBUTARY WILLIAM HARRELSON/HARRELSON MINE	SCG731293 MINOR INDUSTRIAL

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

LANDFILL NAME ***FACILITY TYPE***	***PERMIT #*** ***STATUS***
INTERNATIONAL PAPER, INC. LANDFILL INDUSTRIAL	222435-1601 ACTIVE
INTERNATIONAL PAPER, INC. INDUSTRIAL	---------- INACTIVE
STONE MANUFACTURING CO. INDUSTRIAL	---------- INACTIVE
GEORGETOWN STEEL CORPORATION INDUSTRIAL	---------- INACTIVE
INTERNATIONAL PAPER, INC. LANDFILL LAND APPLICATION	222654-8001 ACTIVE

INTERNATIONAL PAPER, INC. LANDFILL LAND APPLICATION	222654-8002 ACTIVE
FRASIER COMPOSTING SITE COMPOSTING	222679-3001 ACTIVE
HAMMOND WOOD RECYCLING #3 COMPOSTING	222660-3001 INACTIVE
MCKENZIE WOOD CHIPPING COMPOSTING	222732-3001 ACTIVE
MILLER WOOD PROCESSING FACILITY COMPOSTING	222763-3001 ACTIVE
AMERICAN CYANAMID INDUSTRIAL	IWP-070 INACTIVE

Mining Activities

MINING COMPANY ***MINE NAME***	***PERMIT #*** ***MINERAL***
STONE CONSTRUCTION CO. SAMPIT MINE	1639-43 SAND
HOWCOX LLC LIVE OAK TERRACE MINE	1929-43 SAND/CLAY
WILLIAM HARRELSON HARRELSON MINE	2069-43 SAND/CLAY

Water Quantity

Portions of this watershed fall within the Waccamaw Capacity Use Area and large groundwater uses must be reported (see Capacity Use Program p.22).

Growth Potential

There is a moderate to high potential for growth in this watershed, which contains the City of Georgetown and is adjacent to the Town of Andrews. Water and sewer infrastructure are located in and immediately around these municipalities, and also southeast of Georgetown, which supports an industrial area. The U.S. Hwy 521 corridor between Andrews and Georgetown has been widened to four lanes and should increase the potential for growth. There are currently five industrial areas in the watershed, one south of Andrews and four located in or near the City of Georgetown. Based on the location of facilities and infrastructure required by many industries (a shipping port, rail lines, commercial air service, highway access, and water and sewer infrastructure), the eastern edge of the watershed has the potential for significant industrial growth. Outside these areas, the watershed is rural with agricultural uses and timberlands.

Sampit River Watershed

(03040207-01)