

## 03040206-07

(Waccamaw River)

### General Description

The South Carolina portion of 03040206-07 is located in Horry County and consists primarily of the *Waccamaw River* and its tributaries from where it crosses the South Carolina/North Carolina state line to Simpson Creek. The watershed occupies 96,578 acres of the Lower Coastal Plain region of South Carolina. Land use/land cover in the watershed includes: 41.0% forested wetland, 25.6% forested land, 20.0% agricultural land, 8.4% urban land, 3.4% nonforested wetland, 1.0% barren land, and 0.6% water.

This portion of the Waccamaw River accepts drainage within South Carolina from Indigo Branch, Bellamy Branch, Cold Water Branch, Meetinghouse Branch (Mill Swamp), and Buck Creek (Round Swamp, Sheepbridge Branch, Camp Swamp, Little Cedar Branch, Cedar Branch, Big Cedar Branch, Deep Branch). Simpson Creek accepts drainage from Mill Branch, Bear Branch, West Bear Branch (Neal Branch), another Mill Branch, Cowpen Swamp (Little Cowpen Swamp), Flat Bay, Floyd Bay, Big Swamp, and Todo Swamp (Thoroughfare Bay, Frank Branch) before draining into the river. There are a total of 335.6 stream miles and 84.0 acres of lake waters in this watershed. The Waccamaw 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-362	W/INT	FW	BUCK CREEK AT SC 905
MD-124	P/INT	FW*	WACCAMAW RIVER AT SC 9 7.0 MI W OF CHERRY GROVE
PD-363	W/INT	FW	SIMPSON CREEK AT SC 905

***Buck Creek (PD-362)*** – This is a blackwater system, characterized by naturally low dissolved oxygen concentration conditions. Although dissolved oxygen excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standards violations. Aquatic life and recreational uses are fully supported; however, there are significant decreasing trends in dissolved oxygen concentration and increasing trends five-day biochemical oxygen demand, turbidity, and total nitrogen concentration. There is a significant decreasing trend in pH.

***Waccamaw River (MD-124)*** – This is a blackwater system, characterized by naturally low dissolved oxygen concentration conditions. Although dissolved oxygen excursions occurred, they were typical of values seen in blackwater systems and were considered natural, not standards violations. Aquatic life and recreational uses are fully supported; however, there is a significant increasing trend in five-day biochemical oxygen demand. There is a significant increasing trend in pH. A significant decreasing trend in turbidity suggests improving conditions for this parameter.

***Simpson Creek (PD-363)*** – Aquatic life uses are fully supported; however, there are significant increasing trends in five-day biochemical oxygen demand and turbidity. Recreational uses are partially supported due to fecal coliform bacteria excursions.

*A fish consumption advisory has been issued by the Department for mercury and includes the **Waccamaw River** within this watershed (see advisory p.115).*

***Natural Swimming Areas***

<i>FACILITY NAME</i>	<i>PERMIT #</i>
<i>RECEIVING STREAM</i>	<i>STATUS</i>
WILLOW TREE RESORT	26-1803N
DEEP BRANCH TRIBUTARY	ACTIVE

**NPDES Program**

***Active NPDES Facilities***

<i>RECEIVING STREAM</i>	<i>FACILITY NAME</i>	<i>NPDES#</i>	<i>TYPE</i>
WACCAMAW RIVER	GSW&SA/LONGS WWTP	SC0040878	MINOR DOMESTIC
MILL BRANCH	LISTON HARDEE & SON/HARDEE PIT	SCG730631	MINOR INDUSTRIAL
WACCAMAW RIVER TRIBUTARY	WIZARD WASH INC.	SCG750026	MINOR INDUSTRIAL
SHEEPBRIDGE BRANCH	WAKE STONE CORP./N. MYRTLE BEACH	SCG730316	MINOR INDUSTRIAL
WACCAMAW RIVER TRIBUTARY	SOUTHERN ASPHALT/HWY 90 PIT	SCG730146	MINOR INDUSTRIAL
WACCAMAW RIVER TRIBUTARY	P MINING CO. INC./COATES PIT MINE	SCG731169	MINOR INDUSTRIAL
WACCAMAW RIVER TRIBUTARY	DEWITT DIRT/DEWITT MINE	SCG731171	MINOR INDUSTRIAL
WACCAMAW RIVER TRIBUTARY	P MINING CO. INC./DEWITT MINE	SCG731130	MINOR INDUSTRIAL
MILL SWAMP	PRO-GREEN LLC/STRAWBERRY ROAD MINE	SCG731155	MINOR INDUSTRIAL

***Municipal Separate Storm Sewer Systems (MS4)***

<i>RECEIVING STREAM</i>	<i>MUNICIPALITY</i>	<i>RESPONSIBLE PARTY</i>	<i>IMPLEMENTING PARTY</i>	<i>NPDES#</i>	<i>MS4 PHASE</i>	<i>MS4 SIZE</i>
WACCAMAW RIVER	UNINCORPORATED AREAS	HORRY COUNTY	HORRY COUNTY	SCR035104	PHASE II	SMALL MS4

## Nonpoint Source Management Program

### *Land Disposal Activities*

#### **Landfill Facilities**

<i>LANDFILL NAME</i>	<i>PERMIT #</i>
<i>FACILITY TYPE</i>	<i>STATUS</i>
WHITE & SON, INC. COMPOSTING	262606-3001 ACTIVE
SUNWAY ENVIRONMENTAL INC. COMPOSTING	262666-3001 ACTIVE

#### ***Mining Activities***

<i>MINING COMPANY</i>	<i>PERMIT #</i>
<i>MINE NAME</i>	<i>MINERAL</i>
LISTON T. HARDEE & SON, INC. HARDEE PIT	1055-51 SAND/CLAY
WHITE & SON, INC. HEWETT ROAD MINE	1132-51 SAND/CLAY
GRAND STRAND AGGREGATES, LLC GORETOWN MINE	1161-51 LIMESTONE
HOLMES HOLMES MINE	1640-51 SAND
WAKE STONE CORP. NORTH MYRTLE BEACH QUARRY	1289-51 LIMESTONE
AO HARDEE & SONS HEWETT ROAD MINE	1624-51 SAND/CLAY
HARDEE MINING HARDEE MINE	1637-51 SAND
SOUTHERN ASPHALT INC. HWY 90 PIT MINE	1187-51 SAND; SAND/CLAY
WORLEY TRUCKING CO., INC. WORLEY MINE #3	1778-51 SAND
PRO-GREEN LLC STRAWBERRY ROAD MINE	1956-51 SAND/TOPSOIL
DILLON COUNTY PEE DEE CHURCH ROAD MINE	1952-51 SAND/TOPSOIL
DEEP SOUTH PLANTATION THE BASS HOLE	1982-51 SAND/TOPSOIL
DEWITT DIRT DEWITT MINE	1984-51 SAND/TOPSOIL
HOT MIX INC HAWKSBILL MINE	2009-51 SAND/TOPSOIL

## **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).

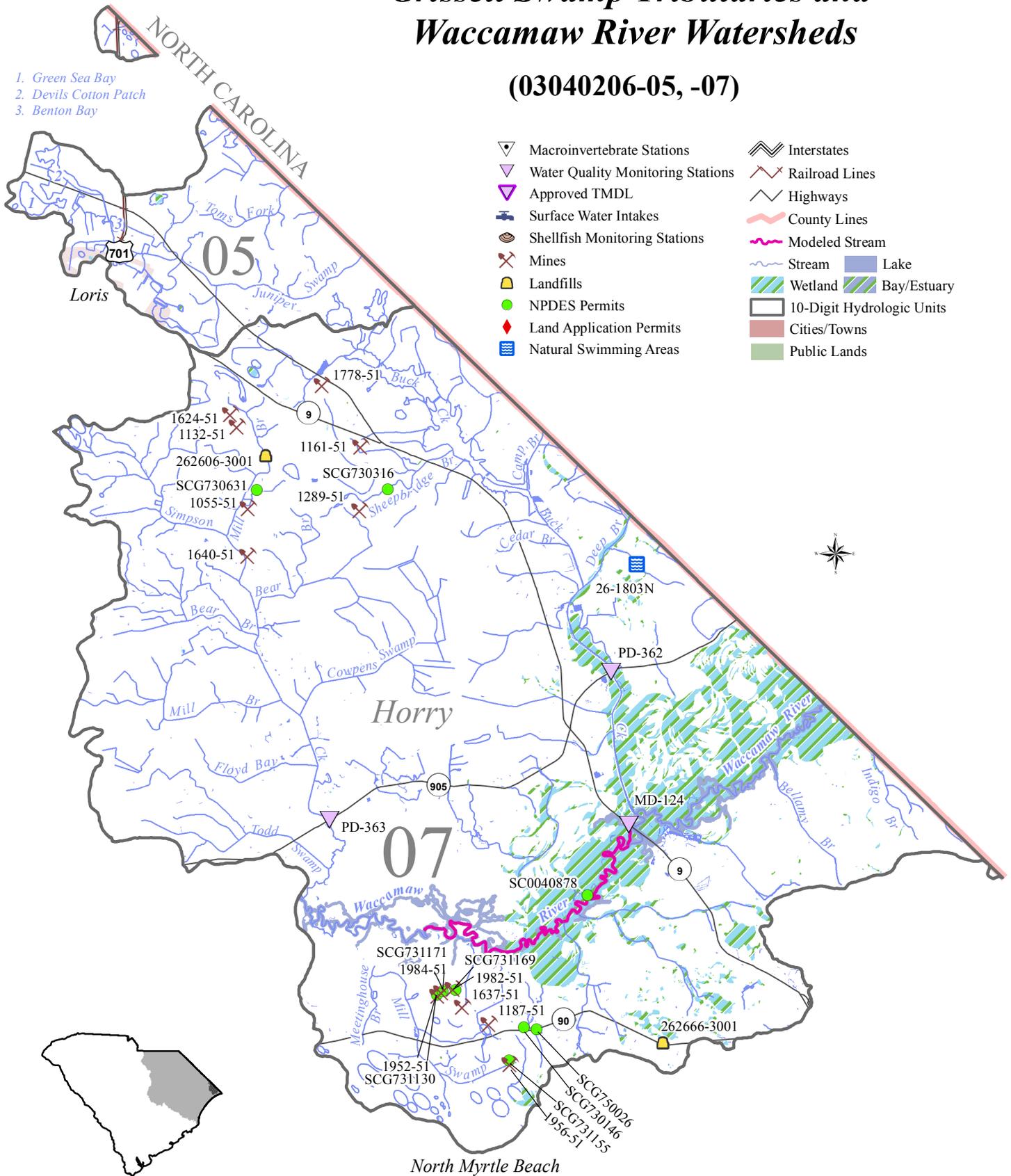
## **Growth Potential**

There is a moderate to high potential for growth in this watershed, which contains the City of North Myrtle Beach. The highest growth, in the form of residential and commercial development, will occur in the area east of the Waccamaw River, which has water infrastructure. The S.C. Hwy 90 corridor, which runs east of the river, also has water available. Moderate growth is seen for the S.C. Hwy 9 corridor, which has both water and sewerage, and an increase in commercial development in particular is predicted for this corridor. Outside of the municipal areas, the watershed is primarily agricultural, timberland, and residential. Some growth is predicted around the unincorporated community of Longs, which has water and sewer infrastructure, due to the sprawling development around North Myrtle Beach and Myrtle Beach.

# Grissett Swamp Tributaries and Waccamaw River Watersheds

(03040206-05, -07)

1. Green Sea Bay
2. Devils Cotton Patch
3. Benton Bay



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

