

## 03050112-01

### (Santee River/Rediversion Canal)

#### General Description

Watershed 03050112-01 (formerly 03050112-010, 020) is located in Clarendon, Williamsburg, and Berkeley Counties and consists primarily of the *Santee River* and its tributaries downstream of Lake Marion to Crawl Creek (*Rediversion Canal*). The watershed occupies 144,350 acres of the Upper and Lower Coastal Plain regions of South Carolina. Land use/land cover in the watershed includes: 45.1% forested wetland, 32.9% forested land, 15.5% agricultural land, 3.4% urban land, 1.7% nonforested wetland, and 1.4% water.

This segment of the Santee River flows out of the Santee Dam of Lake Marion and incorporates the drainage of the Old Santee Canal, the Little River, the Dead River, Doctors Branch (Torkiln Branch, Mill Branch, Highland Creek, Hicks Branch, Meetinghouse Branch, Bennetts Branch), Butlers Bay, Johns Run, Mt. Hope Swamp (Buck Bay, Islandea Bay, Junkyard Bay, Hagan Branch, Guise Bay, Little Junkyard Bay, Long Branch), Campbell Branch, Walnut Branch, and Pen Branch. Crawl Creek (Lifeland Branch, Big Bay Branch, Curriboo Branch) flows through the Santee Swamp and joins with the Rediversion Canal (Ponteaux Branch) in Mattassee Lake (Mattassee Branch) before draining into the Santee River. The 11.5 mile Rediversion Canal connects Lake Moultrie with the lower Santee River near the Town of St. Stephen. Oxbow lakes draining into the river include Couturier Lake, Cordes Lake, Solomon Lake, Little Solomon Lake, Wood Lake, and Maham Lake. There are a total of 482.4 stream miles and 700.6 acres of lake waters in this watershed, all classified FW. An additional natural resource is the Francis Marion National Forest, which extends over the base of the watershed.

#### Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
SC-024	SC	FW	SANTEE RIVER AT WILSONS LANDING BELOW SPILLWAY DAM
RS-05399/ST-536	RS-05/BIO	FW	BENNETTS BRANCH AT S-14-351, 11.5 MI SSE OF MANNING
ST-537	BIO	FW	DOCTORS BRANCH AT S-14-48
ST-016	P/INT	FW	SANTEE RIVER AT US 52, 6.5 MI NNW OF ST. STEPHENS
SC-037	SC	FW	REDIVERSION CANAL AT SC 45 BRIDGE
ST-031/SC-037A	INT/SC	FW	REDIVERSION CANAL AT US 52

*Santee River* – There is one SCPSA monitoring site and one SCDHEC site along this section of the Santee River. At the upstream site (*SC-024*), aquatic life and recreational uses are fully supported. At the downstream site (*ST-016*), 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. Significant decreasing trends in total phosphorus concentration and total suspended solids suggest improving conditions for these parameters.

**Bennetts Branch (RS-05399/ST-536)** - Aquatic life uses are partially supported based on macroinvertebrate community data. Recreational uses are not supported due to fecal coliform bacteria excursions.

**Doctors Branch (ST-537)** - Aquatic life uses are partially supported based on macroinvertebrate community data.

**Rediversion Canal** – There are two monitoring sites (SCPSA, SCDHEC) along the Rediversion Canal. Aquatic life and recreational uses are fully supported at the upstream site (**SC-037**). Aquatic life and recreational uses are also fully supported at the downstream site (**ST-031**); however, there is a significant increasing trend in five-day biochemical oxygen demand. Significant decreasing trends in total nitrogen concentration and fecal coliform bacteria suggest improving conditions for these parameters.

*A fish consumption advisory has been issued by the Department for mercury and includes the Santee River and the Rediversion Canal within this watershed. For more information and the most current advisory visit <http://www.scdhec.gov/fish>*

**Groundwater Quality**

<u>Well #</u>	<u>Class</u>	<u>Aquifer</u>	<u>Location</u>
AMB-021	GB	BLACK CREEK/MIDDENDORF	ST. STEPHEN

All water samples collected from ambient monitoring well **AMB-21** met standards for Class GB groundwater.

**NPDES Program**

**Active NPDES Facilities**

<i>RECEIVING STREAM FACILITY NAME</i>	<i>NPDES# TYPE</i>
SANTEE RIVER WILLIAMSBURG CO. W&SA/SANTEE RIVER WWTP	SC0048097 MINOR DOMESTIC
REDIVERSION CANAL US ARMY CORP./ST. STEPHEN POWER PLANT	SC0047937 MINOR INDUSTRIAL
SANTEE RIVER BCW&SA/ST.STEPHEN WWTP	SC0025259 MINOR DOMESTIC
CURRIBOO BRANCH ALBANY INTNL/PRESS FABRIC	SC0002569 MINOR INDUSTRIAL

## Nonpoint Source Management Program

### *Land Disposal Activities*

#### **Landfill Facilities**

<i>LANDFILL NAME</i>	<i>PERMIT #</i>
<i>FACILITY TYPE</i>	<i>STATUS</i>
GA PACIFIC CORP. CHEM.	083304-1601
INDUSTRIAL	ACTIVE

### *Mining Activities*

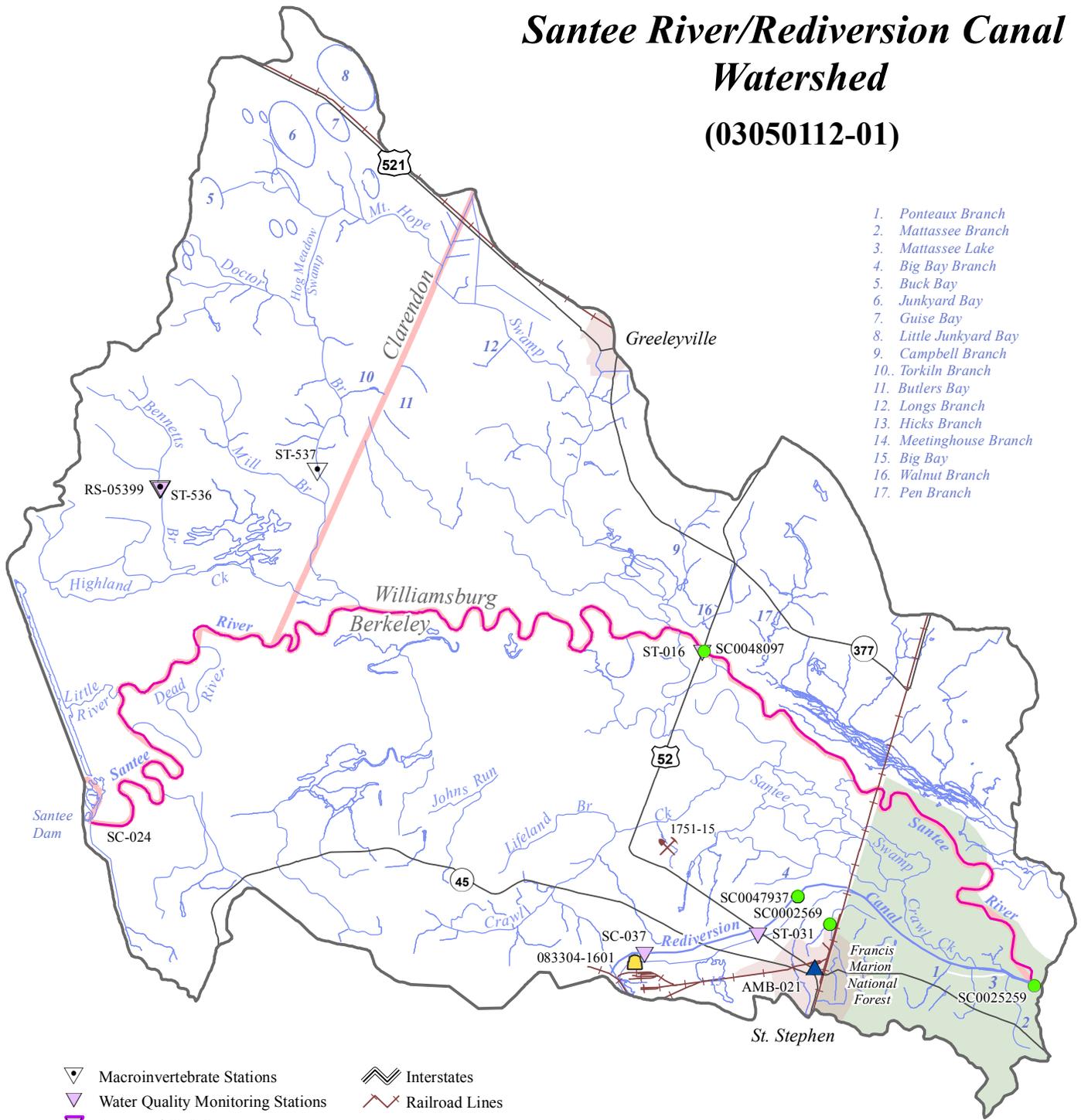
<i>MINING COMPANY</i>	<i>PERMIT #</i>
<i>MINE NAME</i>	<i>MINERAL</i>
DH HANKINS TRUCKING CO. LLC	1715-15
CAROLINE MINE	SAND/TOP SOIL

## **Growth Potential**

There is a low potential for growth projected in this watershed, which contains portions of the Towns of Greeleyville and St. Stephen and portions of the communities of Pineville and Russellville and the Francis Marion National Forest. The Town of St. Stephen has both water and sewer services available, which may aid in attracting development to the area. Another source of potential growth is US Hwy. 52.

# Santee River/Rediversion Canal Watershed

(03050112-01)



1. Ponteaux Branch
2. Mattassee Branch
3. Mattassee Lake
4. Big Bay Branch
5. Buck Bay
6. Junkyard Bay
7. Guise Bay
8. Little Junkyard Bay
9. Campbell Branch
10. Torkiln Branch
11. Butlers Bay
12. Longs Branch
13. Hicks Branch
14. Meetinghouse Branch
15. Big Bay
16. Walnut Branch
17. Pen Branch

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

