

03050207-03
(Lemon Creek)

General Description

Watershed 03050207-03 (formerly 03050207-070) is located in Bamberg County and consists primarily of *Lemon Creek* and its tributaries. The watershed occupies 44,2; 2 acres of the Lower Coastal Plain region of South Carolina. Land use/land cover in the watershed includes: 64.9% forested land, 28.0% forested wetland, 19.9% agricultural wetland, 8.1% urban land, 1.0% nonforested wetland, and 0.1% water. A map depicting this watershed is found in Appendix A, page A-13.

Lemon Creek originates in the City of Denmark and accepts drainage from Grapevine Branch, Halfmoon Branch, Colt Branch, Hog Bay, and Tony Hill Bay before flowing into the Little Salkehatchie River. There are a total of 200.7 stream miles and 721.6 acres of lake waters in this watershed. Lemon Creek is classified FW* (DO not less than 4mg/l and pH 5.0-8.5) and its tributaries are classified FW.

Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
CSTL-116	INT	FW*	LEMON CREEK AT S-05-541

Groundwater Quality

<u>Well #</u>	<u>Class</u>	<u>Aquifer</u>	<u>Location</u>
AMB-001	GB	BLACK CREEK	BAMBERG

Lemon Creek (CSTL-116) - Aquatic life 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 turbidity and total nitrogen concentration and increasing trends in dissolved oxygen concentration suggest improving conditions for these parameters. Recreational uses are partially supported due to fecal coliform bacteria excursions; however, a significant decreasing trend in fecal coliform bacteria concentration suggests improving conditions for this parameter.

NPDES Program

Active NPDES Facilities

<i>RECEIVING STREAM FACILITY NAME</i>	<i>NPDES# TYPE</i>
LEMON CREEK BAMBERG CO./CAMP SAND PIT	SCG730213 MINOR INDUSTRIAL

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

<i>LANDFILL NAME FACILITY TYPE</i>	<i>PERMIT # STATUS</i>
BAMBERG COUNTY LANDFILL TRANSFER STATION	051001-6001 ACTIVE

BAMBERG COUNTY LANDFILL	051001-1101	
DOMESTIC	INACTIVE	
BAMBERG COUNTY C&D LANDFILL		051001-1201
C & D		ACTIVE
BAMBERG COUNTY COMPOSTING LANDFILL	051001-3001	
COMPOSTING	INACTIVE	

Land Application Sites

<i>LAND APPLICATION SYSTEM</i>	<i>ND#</i>
<i>FACILITY NAME</i>	<i>TYPE</i>
SPRAYFIELD	ND0063398
TOWN OF BAMBERG	DOMES
	TIC

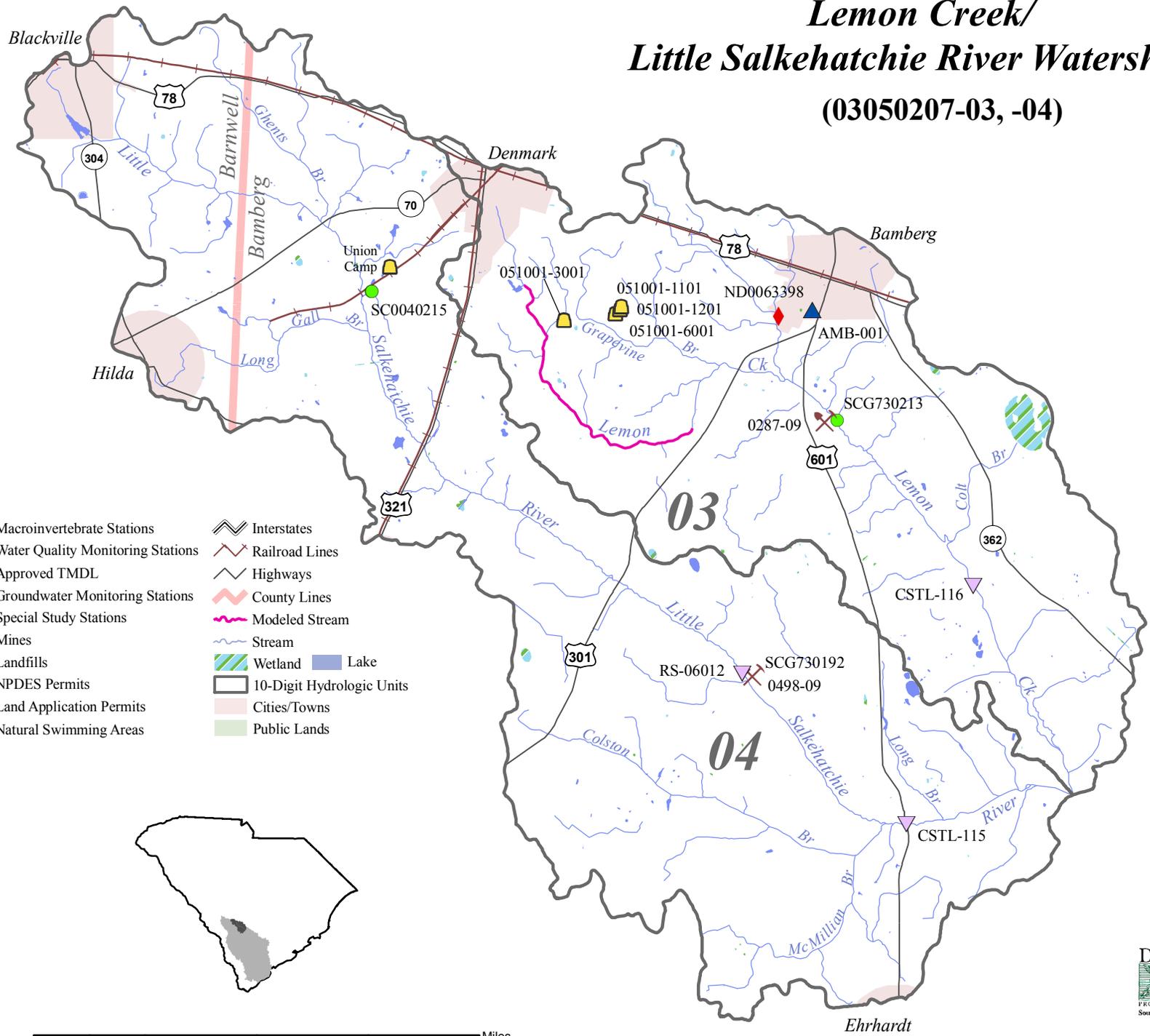
Mining Activities

<i>MINING COMPANY</i>	<i>PERMIT #</i>
<i>MINE NAME</i>	<i>MINERAL</i>
BAMBERG COUNTY	0287-09
CAMP SAND PIT	SAND/CLAY

Growth Potential

There is a low potential for growth in this watershed, which contains a portion of the City of Denmark and a portion of the Town of Bamberg. The only commerce in the area is along US 78, which is projected to be widened and could serve to increase commerce. Rail lines run through Bamberg to Denmark, and another through Denmark to the City of Columbia in one direction and toward the Savannah River in the other; the rail system already in place may encourage industrial growth. Growth is currently limited by the treatment system capacity. Bamberg County has adopted a zoning ordinance that includes River and Streamside Management Areas, restricting development within 100 feet of a river and 50 feet from perennial streams, which flow directly into the river.

Lemon Creek/ Little Salkehatchie River Watersheds (03050207-03, -04)



A-13