

**03060107-03**  
**(Stevens Creek)**

**General Description**

Watershed 03060107-03 (formerly 03060107-040) is located in Edgefield and McCormick Counties and consists primarily of lower *Stevens Creek* and its tributaries from Turkey Creek to its confluence with the Savannah River. The watershed occupies 131,586 acres of the Piedmont and Upper Coastal Plain regions of South Carolina. Land use/land cover in the watershed includes: 75.8% forested land, 17.0% agricultural land, 3.8% urban land, 1.9% forested wetland (swamp), 1.0% water, and 0.5% barren land. A map depicting this watershed is found in Appendix C, page C-39.

This segment of Stevens Creek accepts drainage from Buzzard Branch, Cuffey Branch, Key Branch, Shumate Branch, another Buzzard Branch, John Branch, Gundy Creek (Ray Creek), Cosey Branch, Double Branches, Ryan Branch, Lloyd Creek (Owl Branch), and Horn Creek. Horn Creek accepts drainage from Quarles Creek (Clearwater Branch), Gilroy Branch, Tobler Creek, Hog Eye Branch, Cedar Creek, Rock Creek, Dry Creek, Lick Fork (Lick Fork Lake, Miller Branch, Big Branch), Big Creek, and Williams Branch. Downstream of Horn Creek, Stevens Creek accepts drainage from Reedy Branch, Cheves Creek (Canaan Branch, Spring Branch, Monday Branch, Bakers Branch, Burkhalter Branch, Big Branch, Dry Branch, Rainsford Pond), Anderson Branch, Hardy Branch, and Sweetwater Branch. There are a total of 522.9 stream miles and 398.1 acres of lake waters within this watershed, all classified FW. The Sumter National Forest extends over the western side of the watershed.

**Surface Water Quality**

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
SV-063	BIO	FW	STEVENS CREEK AT SC 23
SV-354	INT	FW	STEVENS CREEK AT S-33-88/S-19-143
SV-725	BIO	FW	CHEVES CREEK AT S-19-34

*Stevens Creek* - There are two SCDHEC monitoring stations along this portion of Stevens Creek. At the upstream site (*SV-063*), aquatic life uses are fully supported based on macroinvertebrate community data. At the downstream site (*SV-354*), aquatic life uses are not supported due to occurrences of copper in excess of the aquatic life chronic criterion, and there is a significant increasing trend in five-day biochemical oxygen demand. There is a significant increasing trend in pH. Recreational uses are partially supported due to fecal coliform bacteria excursions.

*Cheves Creek (SV-725)* - Aquatic life uses are fully supported based on macroinvertebrate community data.

### *Natural Swimming Areas*

*FACILITY NAME*  
*RECEIVING STREAM*

*PERMIT #*  
*STATUS*

LICK FORK LAKE  
LICK FORK LAKE

19-1001N  
ACTIVE

### **NPDES Program**

#### *Active NPDES Facilities*

*RECEIVING STREAM*  
*FACILITY NAME*

*NPDES#*  
*TYPE*

SWEETWATER BRANCH  
MAGELLAN TERMINALS HOLDINGS/N. AUGUSTA

SCG340012  
MINOR INDUSTRIAL

SWEETWATER BRANCH  
MAGELLAN TERMINALS HOLDINGS/N. AUGUSTA 2

SCG340003  
MINOR INDUSTRIAL

MONDAY BRANCH  
PIONEER CLEARING #1 MINE

SCG730703  
MINOR INDUSTRIAL

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

*RECEIVING STREAM*  
*MUNICIPALITY*  
*RESPONSIBLE PARTY*  
*IMPLEMENTING PARTY*

*NPDES#*  
*MS4 PHASE*  
*MS4 SIZE*

LOWER STEVENS CREEK  
UNINCORPORATED AREAS  
AIKEN COUNTY  
AIKEN COUNTY

SCR030302  
PHASE II  
SMALL MS4

LOWER STEVENS CREEK  
UNINCORPORATED AREAS  
EDGEFIELD COUNTY  
EDGEFIELD COUNTY

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PHASE II  
SMALL MS4

### **Nonpoint Source Management Program**

#### *Land Disposal Activities*

##### **Landfill Facilities**

*LANDFILL NAME*  
*FACILITY TYPE*

*PERMIT #*  
*STATUS*

GRIFFIN SHORT TERM C & D LANDFILL  
C & D

332900-1301  
INACTIVE

PIONEER CLEARING DEBRIS & YT LANDFILL  
C & D

192697-1701  
ACTIVE

### ***Mining Activities***

***MINING COMPANY***  
***MINE NAME***

***PERMIT #***  
***MINERAL***

PIONEER CLEARING  
PIONEER CLEARING #1 MINE

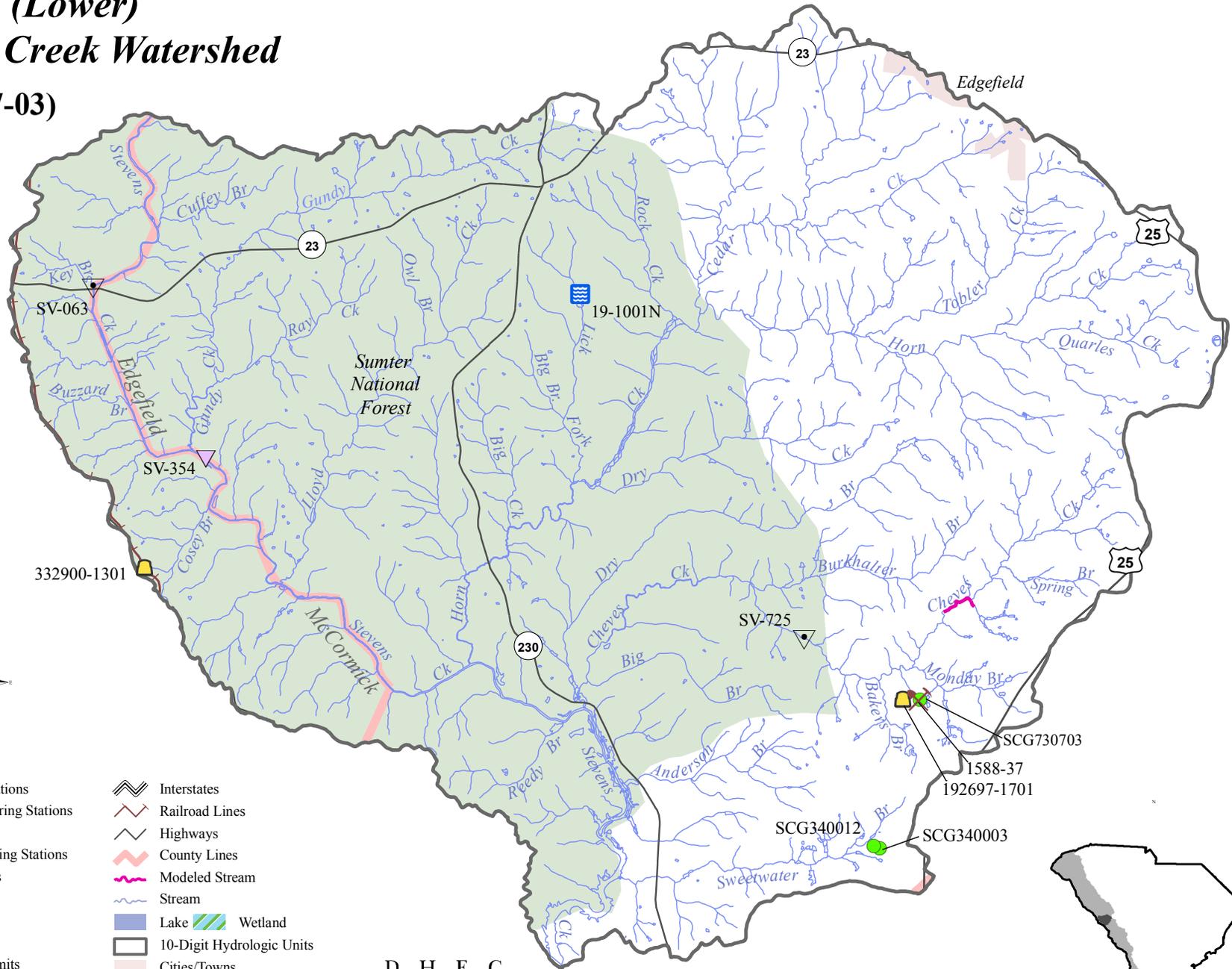
1588-37  
SAND/CLAY

### **Growth Potential**

There is a low potential for growth in this watershed, which contains portions of the Town of Edgefield, and the communities of Modoc, Clarks Hill, and Murphys Estates. The Edgefield Industrial Park, located southeast of the Town of Edgefield, is supported by a rail system and serves as a source of potential industrial growth in the watershed. The Edgefield County Water and Sewer Authority's Regional Sewer Collection System now serves Edgefield County, and the Saluda County and the Town of Saluda where it connects to the sewer system of the City of North Augusta for final connection to the Horse Creek Valley WWTP. The Town of Edgefield has connected to the system, allowing for possible growth. A federal prison and state prison have been constructed in Edgefield County, which should also increase growth. The growth of North Augusta is approaching the Stevens Creek area, particularly residential development. The regional sewer line should also enhance industrial development along US 25, between the Towns of Trenton and North Augusta. Over half of the watershed resides within the Sumter National Forest and would tend to limit growth in that area.

**(Lower)**  
**Stevens Creek Watershed**  
**(03060107-03)**

C-39



- |  |                                   |  |                           |
|--|-----------------------------------|--|---------------------------|
|  | 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                         |  | Lake                      |
|  | NPDES Permits                     |  | Wetland                   |
|  | Land Application Permits          |  | 10-Digit Hydrologic Units |
|  | Natural Swimming Areas            |  | Cities/Towns              |
|  |                                   |  | Public Lands              |

