

03050105-14

(*Lawsons Fork Creek*)

General Description

Watershed 03050105-14 (formerly 03050105-180) is located in Spartanburg County and consists primarily of *Lawsons Fork Creek* and its tributaries. The watershed occupies 54,410 acres of the Piedmont region of South Carolina. Land use/land cover in the watershed includes: 39.0% urban land, 33.5% forested land, 23.7% agricultural land, 2.1% forested wetland, 0.6% water, 0.6% barren land, and 0.5% scrub/shrub land.

Lawsons Fork Creek accepts drainage from Greene Creek (Meadow Creek), Camp Creek, Fawn Branch, Big Shoally Creek (Little Shoally Creek, Flatwood Lake, Fairview Lake), Betty Green Creek (Waldrops Lake), Chinquapin Creek, Halfway Branch, and Fourmile Branch before draining into the Pacolet River. There are a total of 88.7 stream miles and 145.2 acres of lake waters in this watershed, all classified FW.

Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
B-221	S/W	FW	LAWSONS FORK CREEK AT S-42-40, BELOW INMAN MILL EFFLUENT
B-277	S/W	FW	LAWSONS FORK CREEK AT S-42-218, 2.7 MI SSE OF INMAN
B-278	S/W	FW	LAWSONS FORK CK AT UNNUMBERED RD BELOW MILLIKEN CHEMICAL
RS-02320	RS02	FW	MEADOW CREEK AT S-42-822
B-531	BIO	FW	MEADOW CREEK AT SR 56
BL-005	S/W	FW	LAWSONS FORK CREEK AT S-42-79 AT VALLEY FALLS
BL-001	P/BIO/INT	FW	LAWSONS FORK CREEK AT S-42-108

Lawsons Fork Creek – There are five SCDHEC monitoring stations along Lawsons Fork Creek. At the furthest upstream site (**B-221**), aquatic life uses are fully supported. Significant decreasing trends in five-day biochemical oxygen demand and turbidity suggest improving conditions for these parameters. There is a significant decreasing trend in pH. Recreational uses are not supported at this site due to fecal coliform bacteria excursions. Further downstream (**B-277**), aquatic life uses are fully supported. Significant decreasing trends in five-day biochemical oxygen demand and increasing trends in dissolved oxygen concentration suggest improving conditions for these parameters. Recreational uses are not supported at this site due to fecal coliform bacteria excursions. At the next site downstream (**B-278**), aquatic life uses are fully supported. Recreational uses are not supported at this site due to fecal coliform bacteria excursions; however, a significant decreasing trend in fecal coliform bacteria concentration suggests improving conditions for this parameter.

Further downstream (**BL-005**), aquatic life uses are fully supported and a significant decreasing trend in turbidity suggests improving conditions for this parameter. Recreational uses are partially supported at this site due to fecal coliform bacteria excursions; however, a significant decreasing trend in fecal coliform bacteria concentration suggests improving conditions for this parameter. At the furthest downstream site (**BL-001**), aquatic life uses are partially supported based on macroinvertebrate community data. There are also significant increasing trends in total nitrogen concentration and total suspended solids. A significant decreasing trend in turbidity suggests improving conditions for this parameter. Fluoranthenes were detected in the 2003

sediment sample. Recreational uses are not supported at this site due to fecal coliform bacteria excursions.

Meadow Creek - There are two SCDHEC monitoring stations along Meadow Creek. At the upstream site (**RS-02320**), aquatic life uses are fully supported, but recreational uses are not supported at this site due to fecal coliform bacteria excursions. At the downstream site (**B-531**), aquatic life uses are partially supported based on macroinvertebrate community data.

NPDES Program

Active NPDES Facilities

<i>RECEIVING STREAM FACILITY NAME PERMITTED FLOW @ PIPE (MGD)</i>	<i>NPDES# TYPE COMMENT</i>
LAWSONS FORK CREEK MILLIKEN & CO./DEWEY PLT PIPE #: 001 FLOW: 0.36	SC0003581 MAJOR INDUSTRIAL
LAWSONS FORK CREEK CITY OF INMAN PIPE #: 001 FLOW: 1.000 (PHASE II)	SC0021601 MINOR DOMESTIC
LAWSONS FORK CREEK INMAN MILLS WATER DISTRICT PIPE #: 001 FLOW: 0.175	SC0024414 MINOR DOMESTIC
MEADOW CREEK INMAN STONE COMPANY, INC. PIPE #: 001 FLOW: M/R	SCG730084 MINOR INDUSTRIAL
FOURMILE BRANCH MOTIVA ENTERPRISES LLC PIPE #: 001, 002 FLOW: M/R	SCG340001 MINOR INDUSTRIAL
FOURMILE BRANCH MAGELLAN TERMINALS/SPARTANBURG I PIPE #: 001, 002 FLOW: M/R	SCG340018 MINOR INDUSTRIAL
FOURMILE BRANCH MAGELLAN TERMINALS/SPARTANBURG II PIPE #: 001 FLOW: M/R	SCG340006 MINOR INDUSTRIAL
FOURMILE BRANCH BP PRODUCTS NORTH AMERICA/SPARTANBURG PIPE #: 001 FLOW: M/R	SCG340002 MINOR INDUSTRIAL
FOURMILE BRANCH KINDER MORGAN SE TERM/SPARTANBURG PIPE #: 001 FLOW: 0.051 PIPE #: 002 FLOW: 0.428	SCG340011 MINOR INDUSTRIAL

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

<i>LANDFILL NAME</i> <i>FACILITY TYPE</i>	<i>PERMIT #</i> <i>STATUS</i>
PAR GRADING & HAULING SHORT TERM C&D LANDFILL	422421-1301,1701 (422627-1701) INACTIVE
BILL GARRETT INDUSTRIAL	IWP-184 INACTIVE
SOUTHERN WOOD PIEDMONT INDUSTRIAL	----- INACTIVE
JIMMY WILSON CONSTRUCTION C&D	422647-1701 INACTIVE
HENSON'S MULCH & MORE WOODCHIPPING COMPOSTING	422766-3001 ACTIVE
JBR ENVIRONMENTAL SERVICES SWP-INDUSTRIAL	422673-2001 ACTIVE
NORTH AMERICAN ROCKWELL CORP. INDUSTRIAL	----- INACTIVE
STOLTZ LAND CLEARING DEBRIS C&D	422422-1301, -1701 INACTIVE

Land Application Sites

<i>LAND APPLICATION SYSTEM</i> <i>FACILITY NAME</i>	<i>ND#</i> <i>TYPE</i>
SPRAYFIELD KOHLER COMPANY	ND0000892 INDUSTRIAL

Mining Activities

<i>MINING COMPANY</i> <i>MINE NAME</i>	<i>PERMIT #</i> <i>MINERAL</i>
INMAN STONE COMPANY, INC. INMAN QUARRY	0630-83 GRANITE

Growth Potential

There is a high potential for growth in this watershed, which contains the City of Inman and a portion of the City of Spartanburg. Industrial growth in particular is expected along the I-85 corridor and major roads with I-85 interchanges. There are also industrial developmental pressures along I-26, U.S. Hwy. 29, and U.S. Hwy. 221.

Watershed Protection and Restoration Strategies

Total Maximum Daily Loads (TMDLs)

TMDLs were developed for SCDHEC and approved by EPA for fecal coliform bacteria in **Lawsons Fork Creek** at water quality monitoring sites **B-221, B-277, B-278, BL-005**, and

BL-001. Currently there are two active facilities (City of Inman - SC0021601 and Inman Mills Water District - SC0024414) that have fecal coliform limits in their NPDES permits to discharge into Lawsons Fork Creek. Both of these facilities are in the upper end of the watershed. Also, the upper part of the watershed is within three Municipal Separate Storm Sewer System (MS4) designated areas: City of Inman, Spartanburg County, and City of Spartanburg. Possible sources of fecal coliform bacteria in Lawsons Fork Creek upstream of BL-005 include MS4 runoff, leaking sewers, failing onsite wastewater disposal systems, pets, and wildlife. Possible sources in lower Lawsons Fork Creek (BL-001) include upstream sources, failing onsite wastewater disposal systems, cattle in creek, pets, and wildlife. The TMDL specifies reductions in the load of fecal coliform bacteria into Lawsons Fork Creek of 81% (B-221), 70% (B-277), 70% (B-278), 70% (BL-005), and 77% (BL-001) in order for the creek to meet the recreational use standard.

Funding for TMDL implementation activities is currently available. For more information, see the Bureau of Water web page www.scdhec.gov/water or call the Watershed Program at (803) 898-4300.

Lawsons Fork Creek Watershed (03050105-14)

