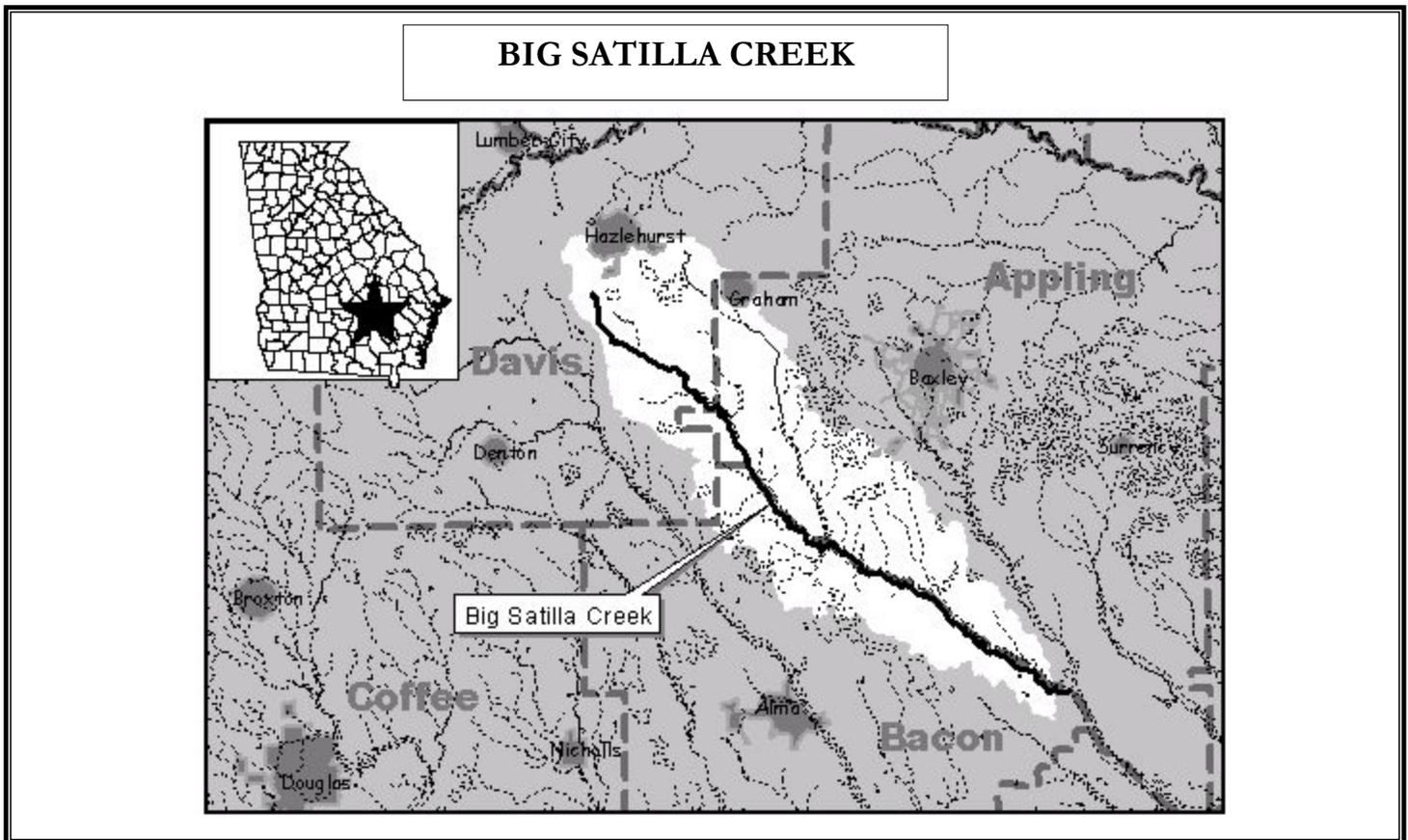


**STATE OF GEORGIA
TMDL IMPLEMENTATION PLAN**

**BIG SATILLA CREEK
(Fecal Coliform)**

Prepared by
**The Georgia Department of Natural Resources
Environmental Protection Division
Atlanta, GA**

TMDL Implementation Plans are platforms for establishing a course of actions to restore the quality of impaired water bodies in a watershed. They are intended as a continuing process that may be revised as new conditions and information warrant. Procedures will be developed to track and evaluate the implementation of the management practices and activities identified in the plans. Once restored, appropriate management practices and activities will be continued to maintain the water bodies. The overall goal of the Plan is to define a set of actions that will help achieve water quality standards in the state of Georgia. This plan was originally prepared as an implementation inventory by the Heart of Georgia Altamaha RDC with a Section 604(b) Grant. TMDL load allocation information has been updated to reflect the approved TMDL.



Impaired Waterbody*	Impaired Stream Location	River Basin	Miles/Area Impacted	Partially Supporting/ Not Supporting
Big Satilla Creek	Headwaters near Hazlehurst to Sweetwater Creek near Baxley	Satilla	34 miles	Not Supporting

STATE OF GEORGIA

TMDL IMPLEMENTATION INVENTORY FOR: Big Satilla Creek FC
 (STREAM) (PARAMETER)

RIVER BASIN: Satilla
 PLAN DATE: 9/1/01

Prepared by: <u>Bill Lindsey</u>		Or Prepared By: _____					
Heart of Georgia Altamaha Regional Development Center Address: <u>P.O. Drawer 1260</u>		Address: _____					
City: <u>Baxley</u> State: <u>GA</u>		City: _____ State: _____					
Zip: <u>31515</u> e-mail: <u>hogardc@altamaha.net</u>		Zip: _____ e-mail: _____					
Date Submitted to EPD: _____		Date Submitted to EPD: _____					
<p align="center">General Information</p> Obtain this information from the TMDL document or other information. When completed, this document will be a self-contained report independent of the TMDL document.		<p align="center">Significant Stakeholders</p> Identify local governments, agricultural organizations or significant landholders, commercial forestry organizations, businesses and industries, and local organizations including environmental groups with a major interest in this water body.					
TMDL ID (to be entered by EPD)	SAT0000003	Name/Organization	Appling County Board of Commissioners				
Water body name	Big Satilla Creek	Address	100 Oak Street				
HUC basin name	Satilla River	City	Baxley	State	GA	Zip	31513
HUC number	03070202	Phone	912-367-8100			e-mail	
Primary county	Appling	Name/Organization	City of Baxley				
Secondary county	Jeff Davis	Address	P.O. Box 290				
Primary RDC	Heart of GA Altamaha	City	Baxley	State	GA	Zip	31513
Secondary RDC		Phone	912-367-8300			e-mail	
Water body location	Headwaters near Hazlehurst to Sweetwater Creek near Baxley	Name/Organization	Jeff Davis County Board of Commissioners				
		Address	14 Jeff Davis Street				
Miles or area impacted	34	City	Hazlehurst	State	GA	Zip	31539
Parameter addressed in plan	(FC)	Phone	912-375-6611			e-mail	
Water use classification	Fishing	Name/Organization	Altamaha Riverkeeper				
Degree of impairment	Partially supporting use <input type="checkbox"/>	Address	P.O. Box 2642				
	Not supporting use <input checked="" type="checkbox"/>	City	Darien	State	GA	Zip	31505
Date TMDL approved by EPD	June 2000	Phone	912-437-8164			e-mail	
Impairment due to	Point sources (possible) <input checked="" type="checkbox"/>	Name/Organization	North American Timber				
	Nonpoint sources <input checked="" type="checkbox"/>	Address	292 East Cherry Street				
	Both <input type="checkbox"/>	City	Jesup	State	GA	Zip	31546
Point source-Form A; Nonpoint source-Form B; Both-Form A+B+C		Phone				e-mail	

If more, add to comments on last page.

FORM B

SUMMARY OF ALLOCATION MODEL RESULTS FROM TMDL DOCUMENT (existing load, target TMDL, and needed reduction)

EXISTING LOAD	TARGET TMDL	NEEDED REDUCTION
2.5 x 10 ¹⁵	2.2 x 10 ¹⁴	91%

I. IDENTIFY **NONPOINT SOURCE** CATEGORIES AND SUBCATEGORIES OR INDIVIDUAL SOURCES WHICH MUST BE CONTROLLED TO IMPLEMENT LOAD ALLOCATIONS:

List major nonpoint sources contributing to impairment including those identified in TMDL document.

SOURCE	DESCRIPTION OF CONTRIBUTION TO IMPAIRMENT	RECOMMENDED LOAD REDUCTION (FROM TMDL)
Agriculture	Possible introduction of animal waste from upslope practices and stormwater runoff when BMPs are not followed	
Municipal (City of Baxley)	Possible introduction of wastewater discharges from municipal wastewater treatment plant, and general stormwater runoff from City	
Residential	Possible introduction of discharges resulting from septic tank runoff from nearby residential areas	

II. DESCRIBE ANY REGULATORY OR VOLUNTARY ACTIONS INCLUDING MANAGEMENT MEASURES OR OTHER CONTROLS BY GOVERNMENTS OR INDIVIDUALS THAT SPECIFICALLY APPLY TO THE POLLUTANT AND THE WATERBODY FOR WHICH THE TMDL WAS WRITTEN, THAT WILL BE ACCOMPLISHED THROUGH RELIABLE AND EFFECTIVE DELIVERY MECHANISMS, AND THAT WILL HELP ACHIEVE THE LOAD ALLOCATIONS IN THE TMDL:

See the attachment for more instructions.

Existing or required regulatory actions

RESPONSIBLE GOVERNMENT, ORGANIZATION OR ENTITY	NAME OF REGULATION/ORDINANCE	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
Georgia DNR EPD	Georgia Water Quality Control Act (OCGA 12-5-20)	Makes it unlawful to discharge excessive pollutants (sediments, nutrients, pesticides, animal waste, etc.) into waters of the State in amounts harmful to public health, safety, or welfare, or to animals, birds, or aquatic life or the physical destruction of stream habitat.	1964	Current
Georgia DNR and Local Governments	Georgia Planning Act (OCGA 12-2-8)	Authorized DCA to develop minimum planning standards and procedures that local government planning and zoning jurisdictions could adopt and enforce pertaining to the protection of river corridors, mountains, water supply watersheds, groundwater recharge areas, and wetlands	1989	Current
Georgia DNR EPD and Local Governments	Georgia Erosion and Sedimentation Control Act (OCGA 12-7-1)	Authorizes local governments to adopt a comprehensive ordinance governing land-disturbing activities within local planning and zoning jurisdictions and require the use of Best Management Practices.	Amended 2000	Current
Georgia DNR EPD and Local Governments	NPDES (National Pollutant Discharge Elimination System) Permits	Regulates facilities that are allowed to discharge treated wastewater into surface water	2000	Current
Georgia DHR and Local Governments	Local Septic Tank Permit Ordinance	Authorizes the regulation of septic tanks, including placement, installation and		Current

		maintenance		
Georgia DNR EPD and Appling County	Comprehensive Water Supply Plan	Requires 24 counties in Southeast Georgia located within the Upper Floridan Aquifer to prepare comprehensive water supply plans to facilitate planning for future water demand to help prevent further saltwater intrusion into the aquifer	2000	Current
Georgia DNR EPD and City of Baxley	Water supply watershed Assessment	Authorizes the City of Baxley to conduct an assessment of the watershed for Sweetwater Creek in order to proceed with the planned expansion of the City's wastewater treatment plant	2000	Current

Existing voluntary actions

RESPONSIBLE ORGANIZATION OR ENTITY	NAME OF ACTION	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
Georgia Forestry Commission	Forestry Water Quality Program	Designated by EPD to lead the effort to develop BMPs, educational BMP programs, forestry complaint resolution process and BMP monitoring, conducts biennial BMP monitoring, complaint Investigation and mediation	1999 Manual	Current
Georgia Soil and Water Conservation Service, GA Dept. of Agriculture	Agricultural BMPs	Leads effort in agricultural water quality program, develops agricultural BMP educational and monitoring efforts		

Additional recommended regulatory or other measures which should be implemented to reduce the loads of the TMDL parameter

ENTITY/ORGANIZATION RESPONSIBLE	NAME OF PROPOSED REGULATION/ORDINANCE/ OTHER	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
RDC, Local Governments, Georgia DNR EPD, Georgia DHR, Georgia Forestry Comm.	Land Use Management Regulations	Utilize state-mandated environmental planning criteria, local planning and zoning ordinances, BMPs, for agricultural and forestry, and septic tank permitting to manage runoff and development, RDC will provide technical assistance in developing a model "zoning-light" ordinance to encourage local governments implement planning and zoning measures		
Georgia DNR EPD and Local Governments	Stormwater Management Regulations	Utilize local ordinance enforcement to produce better erosion/sedimentation control at the time of construction, could possibly require post-construction erosion/sedimentation control, could use passive design elements in new developments and stream buffers to prevent runoff		
Georgia DNR EPD, Local Governments, RDC	Cooperative Monitoring Program	Seek a scientific study of issues such as natural dissolved oxygen levels of slow-moving streams, could seek funding/cooperation for watershed assessments including possible model demonstration assessments for small watersheds, develop a program for implementation assessments		

III. SCHEDULE FOR IMPLEMENTING MANAGEMENT MEASURES OR OTHER CONTROL ACTIONS:

These must be implemented as expeditiously as practicable within five years of when the implementation plan is accepted by EPD.

IMPLEMENTATION ACTION	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5
Form stakeholders group					
Organize implementation work with stakeholders and local officials to identify remedial measures and potential funding sources	X				
Identify sources of TMDL parameter	X				
Develop management programs to control runoff including identification and implementation of BMPs (Phase I):					
Agriculture	X	X	X	X	X
Forestry	X	X	X	X	X
Urban	X	X	X	X	X

Mining	NA	NA	NA	NA	NA
Organize and implement education and outreach programs	X	X	X	X	X
Detect and eliminate illicit discharges	X	X	X	X	X
Evaluate additional management controls needed		X	X	X	X
Monitor and evaluate results	X	X	X	X	X
Reassess TMDL allocations		X	X	X	X
Provide periodic status reports on implementation of remedial activities	X	X	X	X	X
If needed, begin process for Phase II (next 5 years) and subsequent phases					

IV. PROJECTED ATTAINMENT DATE AND BASIS FOR THAT PROJECTION:

The projected attainment date is 10 years from acceptance of the implementation plan by EPD.

V. MEASURABLE MILESTONES:

- Number of management controls and activities already implemented _____
- Number of management controls and activities proposed in five-year work program _____
- Number of management controls and activities actually implemented in five-year work period _____(to be completed after 5 years)
- Stream sampled to identify areas of concern See monitoring plan
- Other _____
- Other _____

VI. MONITORING PLAN:

Monitoring data that placed stream on 303(d) list will be provided if requested.

Describe previous or current sampling activities or other surveys to detect sources or to measure effectiveness of management measures or other controls.

ORGANIZATION	TIME FRAME	PARAMETERS	PURPOSE	STATUS
USGS	01/98-12/98	Pathogens (FC)	To detect the level of coliform present at two different sites	Complete

			along Big Satilla creek and collect pertinent data	

Describe any planned or proposed sampling activities or other surveys. (Scheduled EPD sampling can be found in the Basin Planning document.)

ORGANIZATION	TIME FRAME	PARAMETERS	PURPOSE	STATUS
EPD			basin planning	
See below : VI				

VI. To address the need for future monitoring, better, more consistent data needs to be acquired. The most recent and reliable data available is a 1998 sample taken by the USGS. Along with the concern about the length of time that has elapsed since the sample was taken, only one site along the stream was used for monitoring purposes. There has been no sampling of locations either upstream or downstream from the original sample. Therefore, it is difficult to determine with precision the exact source(s) contributing to the stream's classification as impaired. More sampling at various locations needs to be conducted to better determine the extent of possible impairment and the contributing cause(s).

VII. CRITERIA TO DETERMINE WHETHER SUBSTANTIAL PROGRESS IS BEING MADE:

- % concentration or load change (monitoring program)
- Categorical change in classification of the stream (delisting the stream is the goal)
- Regulatory controls or activities installed (ordinances, laws)
- Best management practices installed (agricultural, forestry, urban)

COMMENTS Stakeholders continued

Appling County Farm Bureau	Jeff Davis County Farm Bureau	Jeff Davis Co. Coop. Extension Service
1850 Martin Luther King Ave	221 Alma Highway	105 Franklin Street
Baxley, GA 31513	Hazlehurst, GA 31539	Hazlehurst, GA 31539
912-367-6661	912-375-5109	912-375-6648

Appling County Coop. Extension Office
E. Park Ave.
Baxley, GA 31513
912-367-8130