

STATE OF GEORGIA
TIER 2 TMDL IMPLEMENTATION PLAN **REVISION** __

Chattahoochee River
 Chattahoochee River Basin

Local Watershed Governments
 Commission of the Unified Government of
 Cussetta-Chattahoochee County
 Stewart County

I. INTRODUCTION

Total Maximum Daily Load (TMDL) Implementation Plans are platforms for evaluating and tracking water quality protection and restoration. These plans have been designed to accommodate continual updates and revisions as new conditions and information warrant. In addition, field verification of watershed characteristics and listing data has been built into the preparation of the plans. The overall goal of the plans is to define a set of actions that will help achieve water quality standards in the state of Georgia.

This implementation plan addresses the general characteristics of the watershed, the sources of pollution, stakeholders and public involvement, and education/outreach activities. In addition, the plan describes regulatory and voluntary practices/control actions (*management measures*) to reduce pollutants, milestone schedules to show the development of the management measures (*measurable milestones*), and a monitoring plan to determine the efficiency of the management measures.

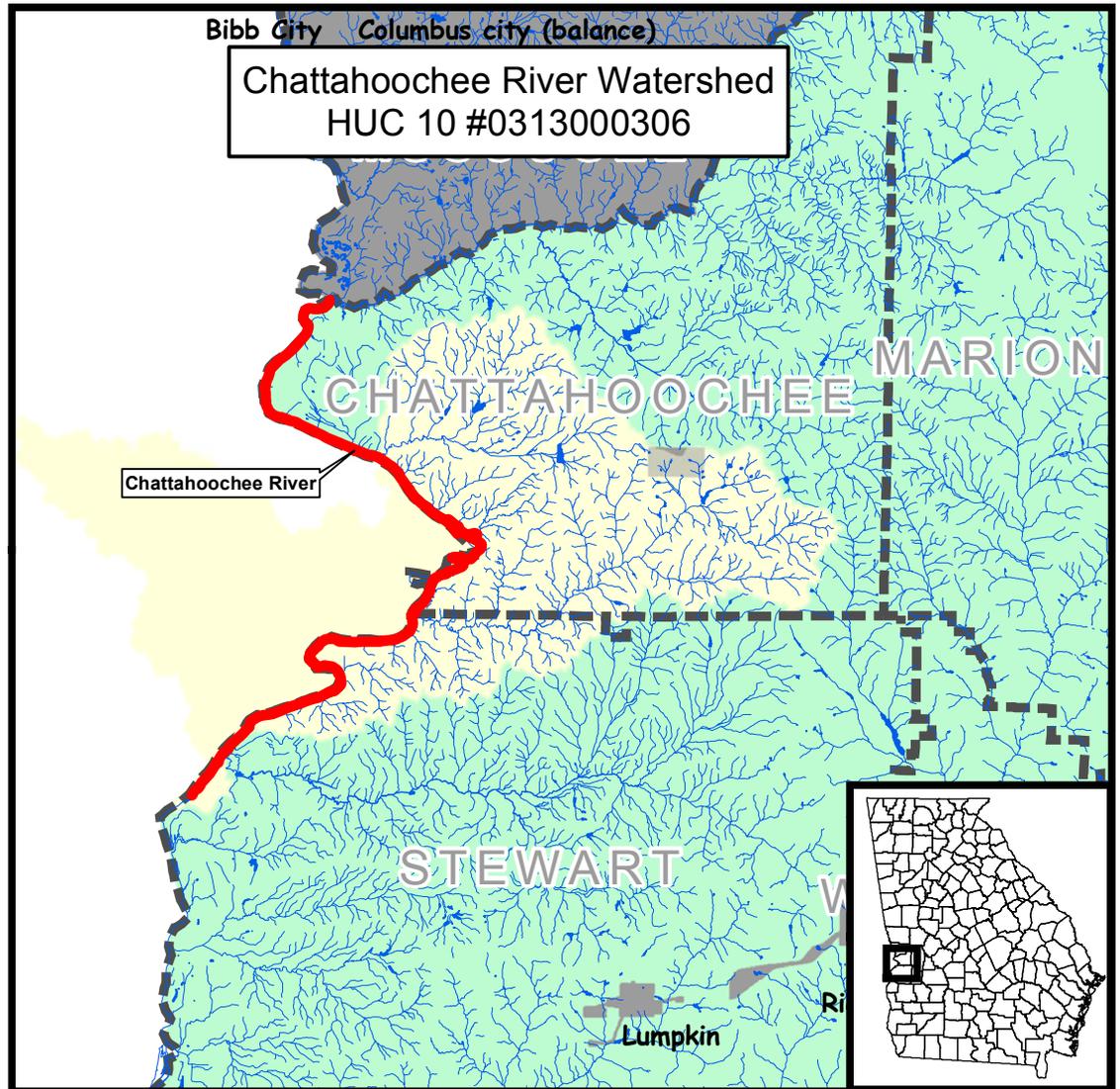


Table 1. IMPAIRMENTS

IMPAIRED STREAM SEGMENT	IMPAIRED SEGMENT LOCATION	IMPAIRMENT
Chattahoochee River	Upatoi Creek to Railroad at Omaha	Fecal Coliform Bacteria
Little Hitchitee Creek *	Headwaters to Hichitee Creek	Biota (sediment)
Hitchitee Creek *	Caney Creek to Sand Branch	Biota (sediment)

* Plan will be written by GA EPD

II. GENERAL INFORMATION ABOUT THE WATERSHED

Write a narrative describing the watershed, HUC 10# 0313000306. Include an updated overview of watershed characteristics. Identify new conditions and verify or correct information in the TMDL document using the most current data. Include the size and location of the watershed, political jurisdictions, and physical features which could influence water quality. Describe the source and date of the latest land cover/use for the watershed. Describe and quantify major land uses and activities which could influence water quality. See the instructions for more information on what to include.

The Chattahoochee River is the western border for the State of Georgia. The stream segment, HUC #0313000306, has been deemed Not Supporting, as a result of elevated levels of Fecal Coliform. The section of river being addressed is approximately 23 mile long and has roughly 19,607.60 acres of land in the watershed area. Much of the surrounding land is currently being used in commercial forestry. A significant length of the river is under the control and management of FT. Benning, U.S. Army Infantry Base. While other large tracts are owned and managed by Mead, Coated Board [Forest products] and WC Bradley, Inc. [commercial forestry].

The Consolidated Government of Cussetta-Chattahoochee County has developed and maintains a public park facility adjoining the river. As a result, the public has access to one of the best natural resources of the State. While there is no direct source of impairment associated with the park some naturally occurring process introduces Fecal Coliform into the river. The installation at FT. Benning has many responsibilities associated with the day to day living of its residents. The U. S. Army Environment Protection Division has the responsibilities of the entire base and insures that the damage to the environment is minimalized. Currently, the base has two direct outfall pipes for treated wastewater. They are closely monitored and permitted. In addition to this point source, the runoff associated with drainage and rainfall also adds to the impairment. At the present time, Ft. Benning is developing a MS4 implementation plan. This should address the issues that are being discussed in this plan. Both the County and Ft. Benning adhere strict regulation of stormwater drainage regulations established in the NPDES protocols.

The landowners such as Mead and WC Bradley allow some hunting to manage wildlife on their perspective properties. This practice has a minor effect on the introduction of Fecal Coliform in the river. They also use the BMPs recommended by various conservation agencies to limit the impact of silviculture on the water resources of their property.

Chattahoochee River

STREAM SEGMENT NAME	LOCATION	MILES/AREA	DESIGNATED USE	PS/NS
Chattahoochee River	Chattahoochee and Stewart Counties	23	Fishing	NS

III. SOURCES AND CAUSES OF STREAM SEGMENT IMPAIRMENT LISTED IN TMDLs

After reviewing the TMDLs written for this stream, complete the following tables with **the information found in the TMDLs**. List each parameter for which the stream segment is impaired and the water quality standard violated. See the instructions for the water quality standards. Describe the sources and causes of each violation identified in the TMDLs.

Table 2. SOURCES OF IMPAIRMENT AS INDICATED IN TMDLs

PARAMETER 1	WQ STANDARD	SOURCES OF IMPAIRMENT	NEEDED REDUCTION FROM TMDL
Fecal Coliform Bacteria	1,000 per 100 ml (geometric mean Nov-April) 200 per ml (geometric mean May-Oct)	Non-point sources Two outfalls managed by Ft. Benning	61%

IV. IDENTIFICATION AND RANKING OF POTENTIAL SOURCES OR CAUSES OF IMPAIRMENT

INVESTIGATE AND EVALUATE the sources of impairment for each parameter listed in Table 2. Write a narrative describing efforts made or procedures used to verify the significance and extent of the sources or causes of each impairment listed in the TMDLs. Include:

- Involvement of stakeholder group
- Field surveys
- Review of land cover data
- Evaluation of sources

The stakeholders were identified by tax assessors records. After a series of communications, a field survey was conducted. The possible sources of impairment were identified and addressed with each stakeholder. A series of interviews were conducted to discover current programs in place and under development to address Fecal Coliform in the Chattahoochee River. The resulting findings show that current practices and planned programs will have major effect on the current impairment in the Chattahoochee River. The stakeholders agree with this assessment and pledge to continue to be diligent in correcting any problem that arises.

To the extent possible, identify sources and quantify the extent of pollution in the stream segment for each of the parameters listed in Table 2 and evaluate the likely impact on the parameter load to the stream. This should follow research performed and described in preceding narrative and should correct or add information to the TMDLs. **The SOURCES SHOULD BE RANKED** from those having the most impact to those having the least impact. The estimated extent of contribution can be expressed as the area of the watershed affected, the stream miles effected, or the number of activities contributing to the problem. The magnitude of contribution should be estimated to be large, moderate, small, or negligible.

Table 3. CONCLUSIONS MADE OF POTENTIAL SOURCES OF STREAM SEGMENT IMPAIRMENT

PARAMETER 1	POTENTIAL SOURCES	ESTIMATED EXTENT OF CONTRIBUTION	ESTIMATED MAGNITUDE OF CONTRIBUTION	COMMENTS
Fecal coliform	Outfalls for Ft. Benning	Direct introduction of FC	Moderate	Current monitoring is effective
Fecal Coliform	Non-point sources runoff	23 miles	Moderate	

V. STAKEHOLDERS

PUBLIC INVOLVEMENT AND THE ACTIVE PARTICIPATION OF STAKEHOLDERS is essential to the process of preparing TMDL implementation plans and improving water quality. Stakeholders can provide valuable information and data regarding their community, impaired water bodies, potential causes of impairments, and management practices and activities which may be employed to reduce the impacts of the causes of impairment.

Describe outreach activities to advise and engage stakeholders in the TMDL implementation plan preparation process. Describe the stakeholder group employed or formed to address the impaired segments in the watershed. Summarize the results of the number of attendees and meetings and describe major findings, recommendations, and approvals.

The identified stakeholders were asked to give feedback and participate in the process of developing this protocol. All were in agreement that the current programs and those in the planning stages were sufficient to address the needs of this protocol. Ft. Benning is currently developing a MS4 plan, which addresses issues similar to this plan. As such, the stakeholders agree to adhere to the practices established here and in the MS4 plan. Cussetta agreed to establish sign the encourage clean-up behind pets that use the river park area.

List the watershed or advisory committee members of the stakeholder group for this segment in the following table.

Table 4. COMMITTEE MEMBERS

NAME/ORG	ADDRESS	CITY	STATE	ZIP	PHONE	E-MAIL
John Brent / Mead	1000 Broad Street	Phenix City	AL	36867	334 448-6323	
Felix Seda / FT. Benning	Melloy Hall	Fort Benning	GA	31905	706 545-9879	
David Cone	377 Broad street	Cussetta	GA	31805	706 989-1568	
Bill Smallwood / Army Corp of Engineers		FT. Gaines	GA	39851	229 768- 2516	
WC Bradley Farms, Inc	PO Box 140	Columbus	GA	31993	706 571-6059	
*						

In Appendix A, list the names, addresses, telephone numbers, and e-mail addresses for local governments, agricultural or commercial forestry organizations, significant landholders, businesses and industries, and local organizations including environmental groups and individuals with a major interest in this watershed.

Chattahoochee Mailing list

Lynne Lane
RT Box 161
Lumpkin, GA 31815

Mead Coated Board, Inc.
PO Box 398
Lumpkin, GA 31815

Ingram & Legrand
Lumber Co, Inc
Suite 100
Macon, GA 3120116708

Ed Wohlwender Jr
Po Box 743
Americus GA 31719

WC Bradley Farms Inc
PO Box 140
Columbus, GA 31993

FT. Benning EPD
Melloy Hall
FT. Benning, GA 31905

Army Corp of Engineers
Rt.1 Box 176
Ft. Gaines, GA 31751

Unified Gov't of Cussetta-Chattahoochee County
PO Box 299
Cussetta, GA 31805

GA Soil and Water Conservation Commission
PO 445
Albany, GA 31702

GA Forestry Commission
Rt. 1 Box 172
Lumpkin, GA 31815

USDA NRCS
128 E Forsyth Street
Americus, GA 31709

VI. MANAGEMENT MEASURES AND ACTIVITIES

Describe any management measures or activities that have been put into place or will be put into place including regulatory or voluntary actions or other controls by governments or individuals that specifically apply to the pollutant that will help achieve water quality standards. Include who will be responsible for the measure, how it will be funded, the status, the date it will be or was initiated, and a short description of how effective the measure is or will be.

Table 5. MANAGEMENT MEASURES AND ACTIVITIES

GENERAL MEASURES APPLICABLE TO ALL PARAMETERS

MEASURE	RESPONSIBILITY	DESCRIPTION	SOURCE OF FUNDING	STATUS	ENACTED/ IMPLEMENTED	EFFECTIVENESS (Very, Moderate, Weak)
Develop MS4 plan	FT. Benning EPD	Implementation plan	U.S. Army	Under development	2005	very
Develop river Corridor ordinance	Chattahoochee County	Water protection	County	planned	2005	moderate
Develop wetland ordinance	Chattahoochee County	Water protection	County	planned	2005	moderate
Develop	Chattahoochee	Water protection	County	planned	2005	moderate

stormwater ordinance	county					

MEASURES APPLICABLE TO INDIVIDUAL PARAMETERS

PARAMETER 1	MEASURE	RESPONSIBILITY	DESCRIPTION	SOURCE OF FUNDING	STATUS	ENACTED/IMPLEMENTED	EFFECTIVENESS (Very, Moderate, Weak)
Fecal Coliform	Monitor outfalls from Ft. Benning	US Army EPD	Continue to monitor treated wastewater introduce into the Chattahoochee River	US Army	ongoing		very
Fecal Coliform	Limit areas for pets	US Army EPD	Continue to limit areas that might be affected by pet activity	US Army	ongoing		moderate
Fecal Coliform	Encourage cleanup of pet activity	US Army EPD, Cussetta	Encourage cleanup of pet activity	US Army, Cussetta	Ongoing, planned		moderate

VII. MONITORING PLAN

The purposes of monitoring are to obtain more data, to determine the sources of pollution, to describe baseline conditions, and to evaluate the effects of management and activities on water quality. Describe any sampling activities or other surveys - active, planned or proposed - and their intended purpose. Reference the development and submission of a Sample Quality and Assurance Plan (SQAP) if monitoring for delisting purposes.

Table 6. MONITORING PLAN

PARAMETER(S) TO BE MONITORED	ORGANIZATION	STATUS (CURRENT, PROPOSED, PLANNED)	TIME FRAME		PURPOSE (If for delisting, date of SQAP submission)
			START	END	
Fecal Coliform	US Army EPD	planned	2004	2014	
	Cussetta-Chattahoochee	proposed	2005	2015	
	Columbus State University	proposed	2005	2015	

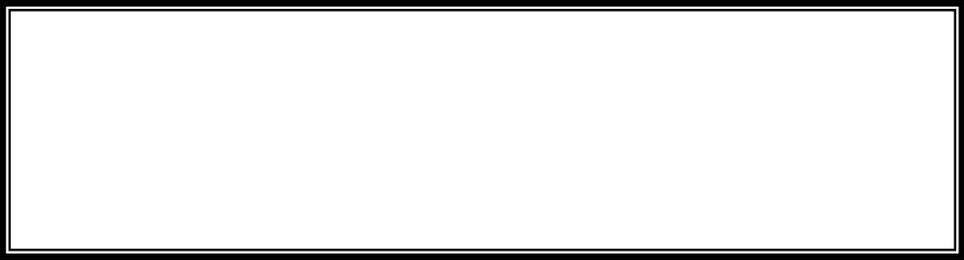
VIII. PLANNED OUTREACH FOR IMPLEMENTATION

List and describe outreach activities which will be conducted to support this plan and the implementation of it.

Table 7. PLANNED OUTREACH

RESPONSIBILITY	DESCRIPTION	AUDIENCE	DATE
FT. Benning EPD	Encourage volunteer cleanup of pet activities	Base residents	2004
Cussetta-Chattahoochee	Encourage cleanup of pet activity	Park visitors	2005

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E-mail:	jbryan@lcrdc.org		
Date Submitted to EPD:	7/7/2004	Revision:	



APPENDIX A.
STAKEHOLDERS

List the names, addresses, telephone numbers, and e-mail addresses for local governments, agricultural or commercial forestry organizations, significant landholders, businesses and industries, and local organizations including environmental groups and individuals with a major interest in this watershed.

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WC Bradley Farms, Inc	PO Box 140	Columbus	GA	31993	706 571-6059	
Lynn Lane	RT. Box 161	Lumpkin	GA	31815		
Ingram & Legrand Lumber	Suite100	Macon	GA	31201		
Ed Wohlwender, Jr.	PO Box 743	Americus	GA	31719		
USDA NRCS	128 E Forsyth Street	Americus	GA	31719	229 924-4056	
GA Forestry Commission	Rt.1 Box 172	Lumpkin	GA	31815	706 568-2158	
GA Soil and Water Conservation Commission	PO Box 445	Albany	GA	31702	229 430-4408	

APPENDIX B.

UPDATES TO THIS PLAN

Describe any updates made to this plan. Include the date, section or table updated, and a summary of what was changed and why.
