

**STATE OF GEORGIA
REVISED TMDL
IMPLEMENTATION PLAN
WATERSHED APPROACH
Ocmulgee River Basin**

Local Watershed Governments
McIntosh Trail RDC
Butts County, Henry County
City of Jenkinsburg

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. **With input from appropriate stakeholder groups, a TMDL Implementation Plan has been developed for a cluster of impaired streams and the corresponding pollutants.** The impaired streams are located in the same sub-basin identified by a HUC10 code (Figure 1).

This Implementation Plan addresses an action plan, education/outreach activities, stakeholders, pollutant sources, and potential funding sources affecting the sub-basin. In addition, the Plan describes (a) regulatory and voluntary practices/control actions (*management measures*) to reduce target pollutants, (b) milestone schedules to show the development of the management measures (*measurable milestones*), (c) a monitoring plan to determine the efficiency of the management measures and measurable milestones, and (d) criteria to determine whether substantial progress is being made towards reducing pollutants in impaired waterbodies. 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. Following this section is information regarding individual segments.

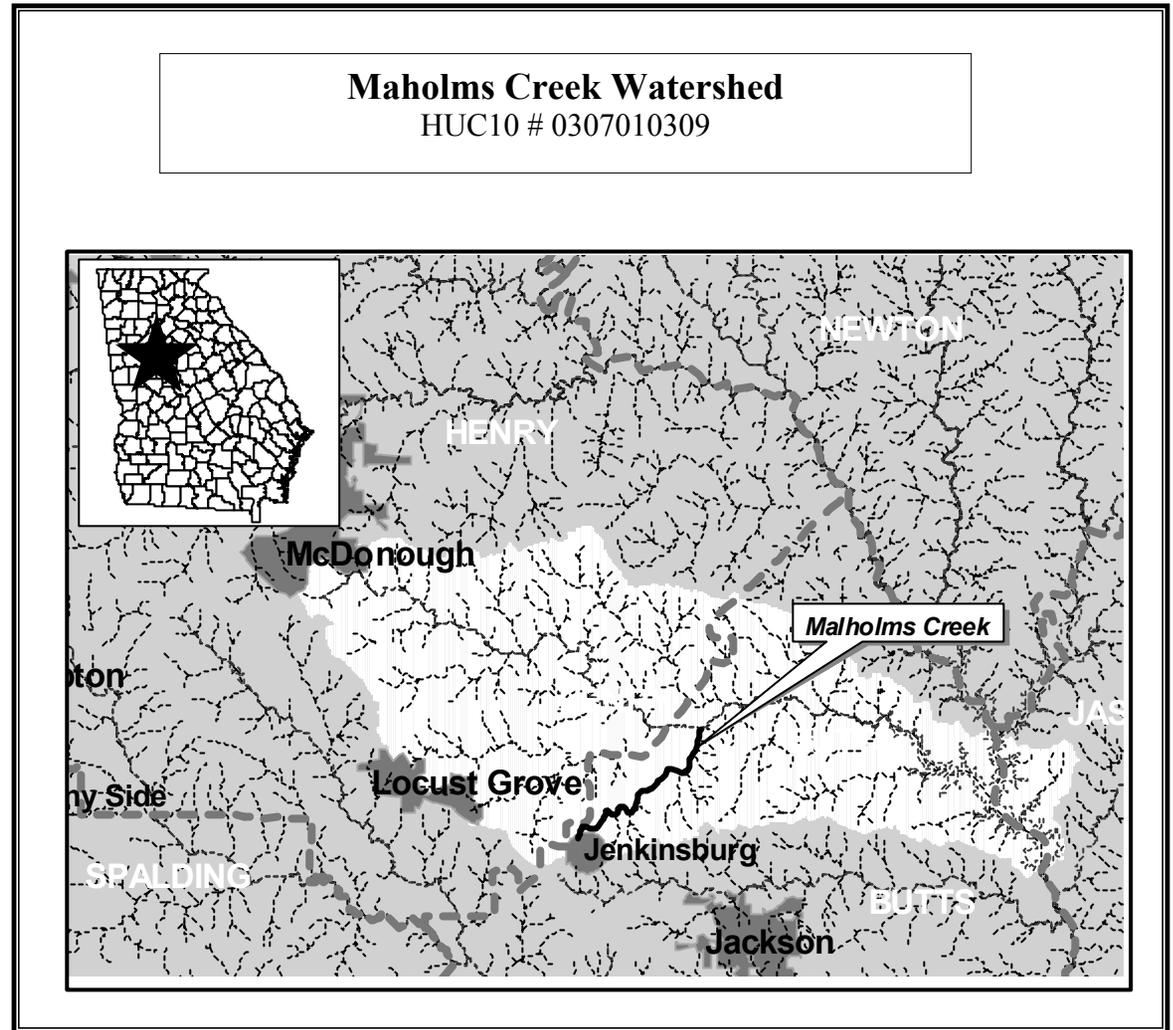


FIGURE 1

Impaired Waterbody*	Impaired Stream Location	Impairment
1. Malholms Creek	Headwaters to Tussahaw Creek	Biota (Sediment)

*These Waterbody Numbers are referenced throughout the Implementation Plan.

POLLUTANT:	SOURCE:	EFFECT:	WHAT CAN I DO?	
			At Home: Community, School	At Work: Business, Government
<input type="checkbox"/> Dissolved Oxygen (DO)	<input type="checkbox"/> Industrial	<input checked="" type="checkbox"/> Habitat	Control land disturbance and erosion	Monitor land disturbance for soil and erosion violations
<input type="checkbox"/> Fecal Coliform (FC)	<input checked="" type="checkbox"/> Urban	<input type="checkbox"/> Recreation	Proper application of fertilizers and soil maintenance	
<input checked="" type="checkbox"/> Sediment	<input checked="" type="checkbox"/> Agriculture	<input type="checkbox"/> Drinking Water		
<input type="checkbox"/> Metals	<input checked="" type="checkbox"/> Forestry	<input checked="" type="checkbox"/> Aesthetics		
<input type="checkbox"/> Fish Consumption Guidelines (FCG)	<input type="checkbox"/> Residential	<input type="checkbox"/> Other (Please List)		
<input type="checkbox"/> Other (Please List)	<input type="checkbox"/> Other (Please List)			

INFORMATION/EDUCATION/OUTREACH ACTIVITIES

An education/outreach component will be used to enhance public understanding of and participation in implementing the TMDL Implementation Plan. List of all previous and planned information/education/outreach activities.

Responsible Organization Or Entity	Description	Impacted Waterbodies*	Target Audience	Anticipated Dates (MM/YY)
Local Governments/ DNR	Distribution of educational materials, information on BMP's and existing pollution problems	0307010309	Homeowners/ Businesses	1/ 04 – 12/ 04
Local Governments/ DNR	Development/ promotion of educational program for presentation to schools and public settings	0307010309	Homeowners/ Businesses	1/ 04 – 12/ 04

Watershed	Maholms Creek
HUC 10	0307010309

WATER BODIES/STREAMS COVERED IN THIS PLAN:

These impaired streams are located in the same sub-basin identified by a HUC10 code. Most of the information contained in this section comes from the 303(d) list and has been completed by employees of the EPD Water Protection Branch. Data that placed stream on 303(d) list will be provided upon request.

Waterbody Name #1	Location	Miles/Area Impacted	Use Classification	Partially Supporting/ Not Supporting (PS/NS)
Maholms Creek	Headwaters to Tussahaw Creek	6	Fishing	PS
Primary County	Secondary County	Second RDC	Source (Point/ Nonpoint)	
Butts			Nonpoint	
Parameters	Water Quality Standards	Required Reduction	TMDL ID	Date TMDL Established
Biota (Sediment)	No degradation of fish community	30.0%		1/2002

POLLUTANT SOURCES

It is important to recognize the potential source(s) causing water quality impairment. Each source must be controlled to comply with target TMDL/Load Allocations for each pollutant. Included is a description of how the sources contribute to the impairment and the waterbody that is impaired.

List of major nonpoint source categories and sub-categories or individual sources (Urban Runoff, Agriculture, Forestry, Municipal Sewage Treatment Plant)

Pollutant	Sources of Pollutants	Description of Contribution To Impairment	Impacted Waterbodies*
Biota	Sediment; Runoff	Soil erosion; land disturbances and inadequate management of forestry or agricultural activities	0307010309

MANAGEMENT MEASURES, MEASURABLE MILESTONES AND SCHEDULE

(i.e. Local codes and ordinances, Erosion and Sedimentation Control, Storm Water Management, Local water resource monitoring)

The following table lists management measures that have been or will be implemented to achieve water quality standards and the load reductions established in the TMDL. The management measures, including regulatory or voluntary actions or other controls by governments or individuals, specifically apply to the pollutant and the waterbody for which the TMDL was written. A description is provided of how these management measures are/will be accomplished through reliable and effective delivery mechanisms, and how these management measures are/will help achieve the target TMDL. Included is the source of the pollutant, anticipated/past effectiveness of the management measure (very effective, somewhat effective, not effective), the current status (i.e. enforced, in-progress, planning), and measurable milestones and schedule. Milestones are used to measure progress in attaining water quality standards and to determine whether management measures are being implemented.

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Erosion and sediment control	Butts County, Henry County, Jenkinsburg	Enforcement of erosion control regulations during land disturbing activities		In Place	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Biota	Runoff, erosion	0307010309	Very Effective

Measurable Milestones	Schedule		Comments
	Start	End	
Enforcement of existing regulations; Monitoring of land disturbances	6/ 03		
Review existing regulations to ensure highest standards available	6/ 03 – 9/ 03		
Ordinance amendments as needed	9/ 03 – 3/ 04		

Watershed	Maholms Creek
HUC 10	0307010309

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Forestry Water Quality Program	Georgia Forestry Commission	Collection of education, monitoring and enforcement measures for erosion/ sediment control practices for forestry; Includes Best Management Practices, workshops and biennial monitoring.	1978	In Place	Regulatory/ Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Biota	Sediment/ runoff from forestry activity	0307010309	Very effective

Measurable Milestones	Schedule		Comments
	Start	End	
Review of performances in biennial monitoring reports.	6/ 03	9/ 03	Review of performances in biennial monitoring reports.

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Agricultural Management Practices	Farm Bureau, USGA, Agribusiness owners	Education and implementation of best management practices for soil conservation			Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Biota	Sediment/ runoff from agricultural activity	0307010309	Very Effective

Measurable Milestones	Schedule		Comments
	Start	End	
Inventory of existing agribusiness within watershed	6/ 03	12/ 03	
Survey of BMP awareness & application	1/ 04	3/ 04	
Workshops and handout materials as needed	3/ 04	6/ 04	

Watershed HUC 10	Maholms Creek 0307010309
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Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Development Standards for water-supply watersheds, wetlands and river corridors and stream banks	Butts County, Henry County, Jenkinsburg	Enforce the DNR Part V minimum development standards restricting the type and proximity of development to perennial streams, wetlands, and other sensitive areas	2000	In Place	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Biota	Sediment/ runoff from development	0307010309	Somewhat effective

Measurable Milestones	Schedule		Comments
	Start	End	
Verify existing compliance among properties	1/ 04	6/ 05	Review of development along impacted streams to identify violations of EPS.
Enforcement of regulations with new development	2000	ongoing	Staff must ensure new development complies with regulations.

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
GIS locations of agricultural operations	Butts County/ MTRDC	Create records type of use and data on code violations by parcel.	6/ 03	Planning	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Biota	Sediment/ runoff from agricultural activity	0307010309	Very effective

Measurable Milestones	Schedule		Comments
	Start	End	
Upgrade map info of land use activities	6/ 03	6/ 04	Implement LBSCS
Develop database for recording status of code violations and BMP implementation	6/ 03	6/ 04	

CRITERIA TO DETERMINE WHETHER SUBSTANTIAL PROGRESS IS BEING MADE

The following set of criteria will be used to determine whether any substantial progress is being made towards reducing pollutants in impaired waterbodies and attaining water quality standards. Discussion on each criteria is recorded in the space provided. Additional relevant criteria are presented in comments.

Percent of concentration or load change (monitoring program) _____

If monitoring results show that it is unlikely that the TMDL will be adequate to meet water quality standards, revision of the TMDL may be necessary.

- 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

Watershed Maholms Creek
HUC 10 0307010309

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**Environmental Protection Division of the Department of Natural Resources,
State of Georgia.**

TOGETHER WE CAN MAKE A DIFFERENCE!