

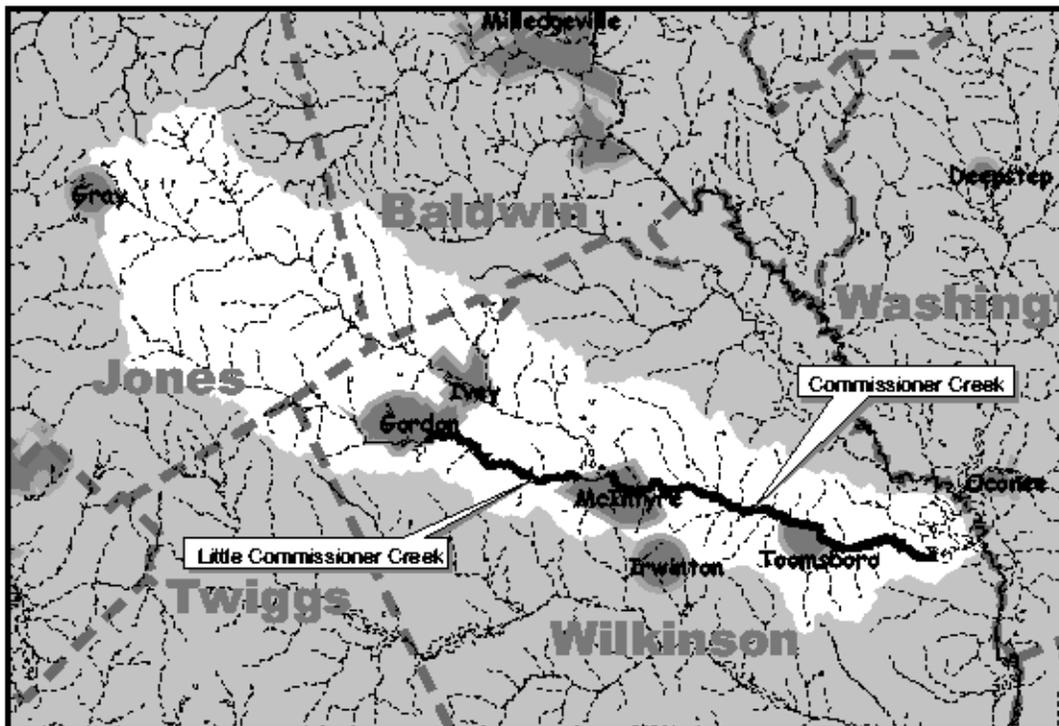
**STATE OF GEORGIA
TMDL IMPLEMENTATION PLAN**

**COMMISSIONER CREEK
(pH)**

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 Middle Georgia RDC with a Section 604(b) Grant. TMDL load allocation information has been updated to reflect the approved TMDL.

HUC10 - 0307010205



Impaired Waterbody*	Impaired Stream Location	River Basin	Miles/Area Impacted	Partially Supporting/ Not Supporting
Commissioner Creek	Little Commissioner Creek to up stream Oconee River	Oconee	16	Not Supporting

**TMDL IMPLEMENTATION PLAN
For
pH
In
COMMISSIONER CREEK
WILKINSON COUNTY, GEORGIA**

Developed by

Middle Georgia Regional Development Center

In Coordination with

Commissioner/Little Commissioner Creek Plan Advisory Committee

September 15, 2001

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Commissioner Creek pH TMDL Implementation Plan

BACKGROUND

The stream segment under study is Commissioner Creek from Little Commissioner Creek to upstream of the Oconee River (see attached map) that covers approximately 14 miles in Wilkinson County. Commissioner Creek has water classification of fishing, and its degree of impairment is listed as non-supporting due to low pH levels. TMDL load limit and allocation is not yet available. The TMDL is currently under development by the Environmental Protection Agency and is expected to be completed by August 31, 2001.

To assist in its development of this TMDL Implementation Plan, the Middle Georgia RDC established the Commissioner/Little Commissioner Plan Advisory Committee consisting of representatives from agriculture, forestry, local government, the private business sector, University of Georgia, Georgia State College and University, and major environmental organizations (see Appendix A). Several meetings of this Plan Advisory Committee were held to review the TMDL process and provide input into this inventory document. In addition, major property owners along Little Commissioner Creek were notified of the impending TMDL and were asked to provide input when the TMDL becomes available. (See Appendix B.) They will also be given an active role during the implementation phase of this process.

SOURCES CONTRIBUTING TO IMPAIRMENT

Two possible major nonpoint sources contributing to the sediment impairment have been identified in the TMDL document, and they are:

- Natural Occurring Effects, which include drainage from acid soils, leaching from tannin and lignin, and atmospheric deposition.
- Discharges from mineral processing plants.

EXISTING REGULATORY/VOLUNTARY ACTIONS

In addition to a host of federal and state laws administered by various agencies, there are a number of important regulatory and voluntary actions currently being implemented to address the two possible non-point sources noted above. They are:

- The NPDES Permits for the Englehard Corporation and the Evans Clay Company outfalls that establish acceptable limits for pH.
- Wilkinson County and the Cities of McIntyre and Toombsboro have adopted the required Part V Environmental Criteria regulations.
- The Georgia Mining Association provides education for miners and a forum for the exchange of ideas related to water quality.
- The University of Georgia's Cooperative Extension Service promotes soil and water conservation through classroom instruction, research, dissemination of information on non-point source water quality impacts, and consulting assistance.

RECOMMENDED REGULATORY AND VOLUNTARY MEASURES

Additional recommended regulatory or other measures that should be implemented to achieve the sediment load limits set forth in the TMDL are listed below.

- Establish partnerships with neighboring cities and counties in the Little Commissioner/ Commissioner Creek watersheds to implement effective watershed protection programs on a cooperative basis.
- Establishment of Adopt-A-Stream program along Commissioner Creek.
- Organization and implementation of education and outreach programs for the kaolin processors and the general public.
- Development by the Georgia Mining Association of industry-wide standards for BMPs to prevent and reduce non-point source pollution, including conducting demonstration projects to gauge effectiveness of the BMPs.

SCHEDULE FOR IMPLEMENTING MANAGEMENT MEASURES

Below is the schedule for the implementation of the management measures.

Year 1

- Form Stakeholders Group
- Organize Implementation Work and Identify Potential Funding Sources
- Identify Sources of TMDL Parameters
- Organize and Implement Education and Outreach Programs

Note: Development of management programs will be done when the exact sources of the low pH are found.

Years 2-5

- Organize and Implement Education and Outreach Programs
- Detect and Eliminate Illicit Discharges
- Monitor and Evaluate Results
- Reassess TMDL Allocations
- Provide Periodic Status Reports on Implementation Process

Year 5

- Evaluate Additional Management Controls Needed
- Begin Process for Phase II

A total of eight management controls and activities have already been implemented. Five new management controls/activities are proposed in the five-year program.

MONITORING PLAN

In 1999, as part of its basin planning program, the Department of Natural Resources-Environmental Protection Division conducted stream monitoring in Commissioner Creek to assess the presence or absence of chemical impairment. The pH levels on Commissioner Creek were found to be low.

The Englehard Corporation and the Evans Clay Company also conduct on-going stream monitoring at their various outfalls to insure compliance with NPDES permits.

Future monitoring will include the following:

- Department of Natural Resources-Environmental Protection Division-Chemical testing as part of its Basin Planning Program in 2004.
- pH testing by Englehard Corporation and Evans Clay Company for NPDES permit compliance.

- Contractor and Commissioner Creek Adopt-A-Stream program determining sources of low pH and doing follow-up pH testing on Commissioner Creek during 2002.

CRITERIA TO DETERMINE SUBSTANTIAL PROGRESS

The future monitoring program will be designed to focus on finding the exact sources of the low pH levels. Little Commissioner Creek, which is a tributary to Commissioner Creek, also has low pH levels. It is critical that the study to determine the sources of the low pH on Commissioner Creek also be expanded to include Little Commissioner Creek, since there is reason to conclude that the water quality of the Commissioner Creek station is greatly influenced from Little Commissioner Creek.

It is being recommended that no new regulatory controls be implemented until the exact causes of the low pH levels are determined. The focus while these studies are underway should be organizing and implementing educational and outreach programs directed to the industry processors and the general public, establishing water quality partnerships with neighboring communities and the private sector, forming adopt-a-stream programs on Commissioner and Little Commissioner Creek and encouraging the Georgia Mining Association to move from talk to action on industry-wide standards for BMPs.

Once the sources of the low pH levels are found, emphasis will be placed on ensuring all current and new BMPs are implemented.

STATE OF GEORGIA

TMDL IMPLEMENTATION PLAN FOR: Commissioner Creek (STREAM) pH (PARAMETER) RIVER BASIN: Oconee
 PLAN DATE: 9/15/01

Prepared by: <u>Phil Clark</u>		Or Prepared By: _____			
<u>Middle Georgia</u> Regional Development Center Address: <u>175-C Emery Highway</u> City: <u>Macon</u> State: <u>GA</u> Zip: <u>31217</u> e-mail: <u>pclark@mgrdc.org</u> Date Submitted to EPD: <u>9/15/01</u>		Address: _____ City: _____ State: _____ Zip: _____ e-mail: _____ Date Submitted to EPD: _____			
General Information		Significant Stakeholders			
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.		Identify local governments, agricultural organizations or significant land holders, commercial forestry organizations, businesses and industries, and local organizations including environmental groups with a major interest in this water body. (See Appendices A and B.)			
TMDL ID (to be entered by EPD)	<u>OCO0000017</u>	Name/Organization			
Water body name	<u>Commissioner Creek</u>	Address			
HUC basin name	<u>Oconee River</u>	City	State	Zip	
HUC number	<u>030701020505/0506</u>	Phone	e-mail		
Primary county	<u>Wilkinson</u>	Name/Organization			
Secondary county	<u>N/A</u>	Address			
Primary RDC	<u>Middle Georgia</u>	City	State	Zip	
Secondary RDC	<u>N/A</u>	Phone	e-mail		
Water body location	<u>Little Commissioner Creek</u>	Name/Organization			
	<u>To Upstream Oconee River</u>	Address			
Miles or area impacted	<u>13.92</u>	City	State	Zip	
Parameter addressed in plan	<u>pH</u>	Phone	e-mail		
Water use classification	<u>Fishing</u>	Name/Organization			
Degree of impairment	Partially supporting use <input type="checkbox"/>	Address			
	Not supporting use <input checked="" type="checkbox"/>	City	State	Zip	
Date TMDL approved by EPA	<u>February 2002</u>	Phone	e-mail		
Impairment due to	Point sources <input type="checkbox"/>	Name/Organization			
	Nonpoint sources <input checked="" type="checkbox"/>	Address			
	Both <input type="checkbox"/>	City	State	Zip	
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
4.85 to 6.02 standard units	6.0 to 8.5 standard units	18.75%

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

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

SOURCE	DESCRIPTION OF CONTRIBUTION TO IMPAIRMENT	RECOMMENDED LOAD REDUCTION (FROM TMDL)
Natural Occurring Effects	Drainage from acid soils, leaching of tannin and lignin, and atmospheric deposition.	N/A
Industrial Waste Discharges	Discharges from mineral processing plants.	N/A

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
Wilkinson County/Cities of McIntyre and Toombsboro	Part V Environmental Criteria Regulations (wetlands, groundwater recharge areas, river corridor)	Protects the critically sensitive environmental areas identified by the Georgia Planning Act.	10/00/8/00	In effect
Georgia DNR-EPD-Land Protection Branch	Georgia Surface Mining Act 1968	Requires Mined Land Use Plan, reclamation strategies, and surety bond requirements. Mined Land Use Plan specifies activities prior to, during and following mining to dispose of refuse and control erosion and sedimentation. The reclamation strategy includes the use of operational BMPs and procedures.	1968	In effect
EPA/Army Corps of Engineers	Clean Water Act/Section 404	Requires permit for dredge and fill activities in the lakes, rivers, perennial and intermittent streams, wetlands, sloughs and natural ponds.	1972/6-88	In effect
Georgia DNR-EPD	Georgia Water Quality Act	Makes it unlawful to discharge and receive pollutants (sediments, nutrients, pesticides, animal waste, etc.) into waters of state in amount harmful to the public.	1964	In effect
Evans Clay Company	NPDES Permit GA 0037257	Outfall monitoring including pH testing.	N/A	In effect
Englehard Corporation	NPDES Permit GA 0003131	Outfall monitoring including pH testing.	N/A	In effect

Existing voluntary actions

RESPONSIBLE ORGANIZATION OR ENTITY	NAME OF ACTION	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
Georgia Mining Association	Education to miners and forum for exchange of ideas	Educates miners about laws and regulations that affect them. Has Environmental Committee.	N/A	In effect
University of Georgia – Cooperative Extension Service	Promotion of Soil and Water Conservation	Provides classroom instruction, basic and applied research, information for nonpoint source water quality impacts, and consulting assistance.	N/A	In effect

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
Wilkinson County/ Cities of McIntyre and Toombsboro, Georgia DNR-EPD, Georgia Mining Association	Education for kaolin processors	Hold workshops and other forums on water quality issues.	10/01	Proposed
Wilkinson County/ Cities of McIntyre and Toombsboro	Public Education	Hold public information and education meetings on water quality issues; groundwater recharge area protection, river corridor protection, wetlands protection and other nonpoint pollution control.	10/01	Proposed
Wilkinson County/ Cities of McIntyre and Toombsboro, Private Sector	Establish partnership with neighboring cities and counties and the private sector	Implement effective watershed protection programs on a cooperative basis.	10/01	Proposed
Georgia DNR – EPD	Georgia Adopt-A-Stream Program	Enlist volunteers to conduct visual surveys, chemical testing and cleanup on impaired streams.	6/02	Proposed
Georgia Mining Association	Industry Standards for BMPs	Develop industry-wide standards for BMPs to prevent and reduce nonpoint source pollution, including conducting demonstration projects to gauge the effectiveness of the BMPs. These BMPs should be for both the mining operations and processing plants.	10/02	Proposed

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 EPA.

IMPLEMENTATION ACTION	YEAR 1 10/01-02	YEAR 2 10/02/03	YEAR 3 10/03-04	YEAR 4 10/04-05	YEAR 5 10/05-06
Form stakeholders group	X				
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):	To be done when the exact sources of low pH levels are found.				
Agriculture					
Forestry					
Urban					
Mining					
Organize and implement education and outreach programs	X	X	X	X	X
Detect and eliminate illicit discharges		X	X	X	X
Evaluate additional management controls needed					X
Monitor and evaluate results		X	X	X	X
Reassess TMDL allocations		X	X	X	X
Provide periodic status reports on implementation of remedial activities		X	X	X	X
If needed, begin process for Phase II (next 5 years) and subsequent phases					X

IV. PROJECTED ATTAINMENT DATE AND BASIS FOR THAT PROJECTION:

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

V. MEASURABLE MILESTONES:

- Number of management controls and activities already implemented 8
- Number of management controls and activities proposed in five-year work program 5
- 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
DNR – EPD	1999	DO, Temp, Conductivity, pH, Turbidity, BOD Nitrate-Nitrite, Ammonia, Total Organic Carbon, Metals, Semi-Volatile Organics, Pesticides, PCBs	Assess for the presence or absence of chemical pollution.	pH levels do not meet standards.
Mining Companies	Ongoing	pH – Part of NPDES Permit.	To insure effluent meets NPDES permit requirements.	N/A

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
DNR - EPD	2004	Chemical Analysis – pH	Basin Planning	Ongoing
Mining Companies	Ongoing	pH	To meet NPDES Permit	Ongoing
University of Georgia and/or Other Subcontractors	2002	pH testing and finding exact cause on low pH levels.	Determine sources of low pH levels and doing follow-up pH testing.	Proposed
Adopt-A-Stream	2002	Assist subcontractor with funding source(s) of low	Determine sources of low pH levels and doing follow-up pH testing.	Proposed

		pH levels and follow-up pH testing.		
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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)
1. Monitoring Programs – The focus of the monitoring program must be finding the exact sources of the low pH levels (either from industrial discharges or natural occurring conditions or a combination of these). Little Commissioner Creek, which is a tributary to Commissioner Creek, also has low pH levels. It was not placed on the 303(d) because the low pH levels were attributed to natural occurring circumstances. However, in streams that have low pH levels due to natural occurring circumstances, the total organic carbon levels should be within the 10-20 range. These levels were not being found on Little Commissioner Creek leading to suspicion that some other factor may be causing the pH factor. It is critical that the study to determine the sources of the low pH on Commissioner Creek also be expanded to include Little Commissioner Creek since there is reason to conclude that the water quality of the Commissioner Creek station is greatly influenced from Little Commissioner Creek.
 2. Regulatory Controls or Activities Installed (ordinances, laws, education programs) – It is recommended that no new regulatory controls be implemented until the exact causes of the low pH levels are determined. The focus while these studies are underway should be organizing and implementing educational and outreach programs directed to the industry processors and general public, establishing water quality partnerships with neighboring communities and the private sector, forming adopt-a-stream programs on Commissioner and Little Commissioner Creek and encouraging the Georgia Mining Association to move from talk to action on industry-wide standards for BMPs.
 3. Best Management Practices Installed – Ensure all current BMPs are being implemented in the Commissioner Creek watershed, as well as any new ones that are developed once the sources of the low pH levels are found.

COMMENTS

APPENDIX A

LITTLE COMMISSIONER/COMMISSIONER CREEK PLAN ADVISORY COMMITTEE

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APPENDIX B

MAJOR PROPERTY OWNERS ALONG COMMISSIONER CREEK

Commissioner Creek - pH

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