

STATE OF GEORGIA

TMDL IMPLEMENTATION PLAN: Yewell Branch, Darr Cove to Brasstown Crk (STREAM) Fecal coliform (PARAMETER) BASIN: Tennessee PLAN DATE: 3-5-01

Prepared by: <u>Larry Sparks</u>		Or Updated By: Tiffannie Chee Hill P.O. Box 1720 Gainesville, GA 30503 Zip: <u>30503</u> e-mail: <u>thill@gmrdc.org</u> Date Submitted to EPD: <u>10-22-03</u>					
<u>Georgia Mountains</u> Regional Development Center Address: <u>P. O. Box 1720</u> City: <u>Gainesville</u> State: <u>GA</u> Zip: <u>30503</u> e-mail: <u>lsparks@gmrdc.org</u> Date Submitted to EPD: <u>3-30-01</u>		Significant Stakeholders 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.					
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.					
TMDL ID (to be entered by EPD)		Name/Organization	See Attachment A				
Water body name	Yewell Branch, Darr Cove to Brasstown Creek	Address					
HUC basin name	Tennessee River	City		State		Zip	
HUC number	060200020401	Phone				e-mail	
Primary county	Towns	Name/Organization					
Secondary county		Address					
Primary RDC	Georgia Mountains	City		State		Zip	
Secondary RDC		Phone				e-mail	
Water body location	Towns County, Georgia	Name/Organization					
		Address					
Miles or area impacted	2	City		State		Zip	
Parameter addressed in plan	Fecal coliform	Phone				e-mail	
Water use classification	Fishing	Name/Organization					
Degree of impairment	Partially supporting use <input checked="" type="checkbox"/>	Address					
	Not supporting use <input type="checkbox"/>	City		State		Zip	
Date TMDL approved by EPA	FEB 1998	Phone				e-mail	
Impairment due to	Point sources	Name/Organization					
	Nonpoint sources <input checked="" type="checkbox"/>	Address					
	Both <input type="checkbox"/>	City		State		Zip	

FORM B

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

EXISTING LOAD	TARGET TMDL	NEEDED REDUCTION
216 cfu/100 ml	150 cfu/100 ml	66 cfu/100 ml

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)
Base flow	General logging activities and background wildlife	10% reduction in base flow
Urban runoff	Intense urban land uses with impervious surfaces; illicit discharges; leaking sanitary sewer lines; failing septic systems; wildlife	10% reduction in loading from urban impervious land uses.
	Gravel parking areas, gravel roads, cleared road right-of-ways, recreation fields	10 % reduction in Loading from urban pervious land uses.
Agriculture	Diffuse runoff of animal waste associated with erosion; runoff from concentrated animal operations; spreading of animal waste or municipal sludge on fields; failing septic systems	0% reduction in loading from agriculture or pasture land uses.

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
Towns County, City of Young Harris	Erosion & Sediment Control Ordinance	Establishes stream protection measures for construction sites.	1990	Currently enforced
City of Young Harris	Tree Ordinance	Tree preservation, replacement and location standards and review	1997	Currently enforced
City of Young Harris	Zoning Ordinance	Designates land uses, density and building requirements within the city.	1991	Currently enforced
City of Young Harris	Water & Sewer Ordinance	Use of public sewer required; industry must pre-treat waste load prior to system entry; prohibits illicit discharges.	1986	Currently enforced
Towns County	Subdivision Regulations	Established procedures for subdivision of land and development of roads.	1984	Currently enforced
City of Young Harris, Towns County	Floodplain Ordinance	Permit review and prevention of development within floodplains	1988, 1992	Currently enforced
Town County, City of Young Harris	Mountain Protection Ordinance	Development standards for all sites above 2,200 feet elevation. Minimum lot sizes and limits to clearing.	1998	Currently enforced
Georgia DNR,EPD	Tennessee River Basin Management Plan	Plan/program to protect, enhance and restore the waters of the Chattahoochee River Basin.	2001	To be completed 2002
Georgia DHR, Towns County Health Department	Septic Tank Regulation	Permit review for placement of septic systems for residential and commercial uses.		Currently enforced

Existing voluntary actions

RESPONSIBLE ORGANIZATION OR ENTITY	NAME OF ACTION	DESCRIPTION	ENACTED OR PROJECTED DATE (mm/yy)	STATUS
Chestatee-Chattahoochee Resource, Conservation and Development Council	Stream Bank Protection	Section 319(h) grant funding demonstration stream bank protection project in the Brasstown Creek Watershed	2000	Ongoing
Natural Resource and Conservation Service (Blairsville field office)	Stream Bank Protection	NRCS and WHIP funding to assist local farmers for various BMPs including fencing control of livestock	1999	Ongoing
City of Young Harris	Sewage System Monitoring Activity	City program using smoke detection to discover leaks in the sewage collection system lines.	1999 to present	Ongoing
Hiwassee River Watershed Coalition	Brasstown Creek Watershed Restoration through Ag BMP Demonstration	Section 319(h) FY 00 grant funding demonstration stream bank protection project on Brasstown Creek (inside Georgia and outside Georgia)	March, 2002 - June, 2007	Ongoing

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
Towns County, City of Young Harris	Storm Water Ordinance	Adoption of Storm Water manual to include water quality improvements.	TBA	TBA
County, City	Wetland Protection Ordinance	Establishes protections measures for wetlands.	TBA	TBA
County, City	Subdivision Regulations	Amend existing subdivision requirements for roads, curbs/ gutter to allow reductions in impervious area, reduce amounts of road right-of-way..	TBA	TBA
County, City	Erosion & Sedimentation Control Ordinance	Erosion and sedimentation control for all sites of land disturbance and construction. Improve manual.	TBA	TBA

Towns County, City Young Harris, City of Hiawassee	Watershed Assessment Management and Implementation Plan	A study and effort to promote water quality and biological data, pollutant runoff and loading estimates, water quality modeling and watershed management strategies.	TBA	TBA
Towns County		Develop agricultural education/demonstration program	TBA	TBA
Towns County		Develop agricultural cost/share program.	TBA	TBA
Towns County	Septic Tank Survey and Education	Develop and use survey to educate homeowners on septic system maintenance.	TBA	TBA
City of Young Harris	Sanitary Sewer Maintenance/Upgrades	Development of proactive measures and plans to prevent leaks and spills from the sanitary sewer system.	TBA	TBA
County, City	Public Outreach Program	Implement an effective public education/outreach program to promote water quality awareness	TBA	TBA

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	YEAR 2	YEAR 3	YEAR 4	YEAR 5
Form stakeholders group	X				
Organize implementation work with stakeholders and local officials to identify remedial measures and potential funding sources	X	X			
Identify sources of TMDL parameter		X	X		
Develop management programs to control runoff including identification and implementation of BMPs (Phase I):					
Agriculture	X	X	X	X	X
Forestry					
Urban	X	X	X	X	X
Mining					
Organize and implement education and outreach programs	X	X	X		
Detect and eliminate illicit discharges		X	X	X	X
Evaluate additional management controls needed			X	X	X
Monitor and evaluate results			X	X	X
Reassess TMDL allocations				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					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 ___ 13 ___
- Number of management controls and activities proposed in five-year work program ___ 10 ___
- 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 HRWA**
- 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
Hiawassee River Watershed Coalition (HRWA)	2001	Lake assessment study for Lake Chatuge and Lake Nottley (Towns and Union Counties) looking at lake uses and water quality.	Lake Assessment Study	Funded, has not begun
TVA Watershed Group	1995 to present	Local citizen organization	Sampling Activities	Ongoing

		performing baseline biological sampling on Brasstown Creek and other streams in the Tennessee River Basin.		
Tennessee Valley Authority (TVA)	Several decades to present	Biological and chemical sampling program throughout the Tennessee River Basin including Brasstown Creek Watershed.	Stream Monitoring Program	Ongoing
City of Young Harris	1997 to present	Stream monitoring as part of discharge permit into Brasstown Creek.	Monitoring Activities	Ongoing

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	2006		basin planning	planned
Watershed Assessment for Towns County, The City of Young Harris and the City of Hiawassee	TBA	Fecal, TSS, DO, metals, biota, nutrients macro invertebrates , fish, etc.	TMDL Implementation, Surface withdrawal permit	
City of Young Harris	TBA	Fecal coliform	Part of maintenance and prevention plan for water and sewer.	

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, etc.)
- Best management practices installed (agricultural, forestry, urban)

AG -- HRWC and the NRCS Field Office in Blairsville have been working hard to install as many Ag BMPs and restore as many miles of impaired stream segments as possible. See list of voluntary actions.

FORESTRY -- N/A

URBAN -- NONE

Attachment A
Brasstown Creek Watershed Group
(Stakeholders)

Timber Co. Drew Marczak, P.O. Box 1069
Watkinsville, GA 30677

Brasstown Valley Resort, 6321 US Highway 76
Young Harris, GA 30582, Brasstown Valley Resort

Chestatee-Chattahoochee RC&D, 624 Green Street, SE
Gainesville, GA 30501, Chestatee-Chattahoochee RC&D

Dorothy Handy, 234 Crane Creek
Young Harris, GA 30582, City of Young Harris

Hon. Carless Sampson, P.O. Box 122
Young Harris, GA 30582, City of Young Harris

Scott Jones, 505 Pinnacle Court
Norcross, GA 30071, Georgia Forestry Association

Georgia Legal Watch, 264 N. Jackson Street
Athens, GA 30601, Georgia Legal Watch

Georgia PIRG, 1447 Peachtree Street, NE #304
Atlanta, GA 30309, Georgia PIRG

Dennis Martin, 3005 Atlanta HWY
Gainesville, GA 30507, GFC

HRWC Chairperson, 1467 Mining Gap Trail
Young Harris, GA 30582, Hiawassee River Watershed Coalition

N GA Community Foundation Association, P.O. Box 1583
Gainesville, GA 30503, N GA Community Foundation Association

The Nature Conservancy, 1330 W Peachtree Street, # 410
Atlanta, GA 30309, Nature Conservancy, The

Sam Breyfolge, 208 Springdale Drive
LaGrange, GA 30240, Temple Inland Forests

Towns Board of Education, Hwy U.S. 76 East
Hiawassee, GA 30546, Towns Board of Education

Marsha Dorta, 1411 Fuller Circle
Young Harris, GA 30582, Towns Co Chamber

Towns County Library, 110 Berrong Street
Hiawassee, GA 30546, Towns County Library

Towns Farm Bureau, 446 Main Street
Hiawassee, GA 30546, Towns Farm Bureau

Frank Riley, 6303 Hwy 17 S
Hiawassee, GA 30546, Trakker Technology

Trust for Public Land, 1447 Peachtree Street, NE
Atlanta, GA 30309, Trust for Public Land

Robert Bruner, 200 Lakeview Circle
Hiawassee, GA 30546, UGA - Towns Co

Hon. Lamar Paris, 114 Courthouse St., Ste 1
Blairsville, GA 30512, Union County

Mickey Cummings, , Union County

US Fish and Wildlife, 247 Milledge Street
Athens, GA 30605, US Fish and Wildlife

USDA - NRCS, 734 East Crescent Drive
Gainesville, GA 30501, USDA - NRCS

Jim Wentworth, P.O. Box 9
Blairsville, GA 30514, USFS

Young Harris College, Young Harris College
Young Harris, GA 30528, Young Harris College