

**Big Haynes Creek Watershed (HUC10 #0307010305) TMDL Implementation  
Plan Narrative  
Gwinnett County, Georgia  
Rockdale County, Georgia  
DeKalb County, Georgia**

Total Maximum Daily Load (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 Big Haynes Creek Watershed (HUC10 #0307010305) is located in the upper portion of the Ocmulgee River Basin in the metro Atlanta area. The local governments with interest in the Section 305(b) / Section 303(d) listed stream segments in this HUC10 watershed include: Gwinnett, Rockdale, and DeKalb Counties and the cities of Loganville, Grayson, Snellville, Conyers and Lithonia. The stream segments identified on Georgia Environmental Protection Division's 303(d) list in the Big Haynes Creek HUC10 Watershed include: Big Haynes Creek (Headwaters to Brushy Creek), Big Haynes Creek (Little Haynes Creek to Yellow River), Big Haynes Creek (Brushy Creek to Little Panther Creek), Boar Tusk Creek, No Business Creek, Swift Creek and Yellow River. The 303 (d) listed stream segments of Big Haynes Creek (Brushy Creek to Little Panther Creek), Boar Tusk Creek, and Yellow River are located in Rockdale County, Georgia. The Big Haynes Creek (Little Haynes Creek to Yellow River) stream segment is located on the Rockdale / Newton County boundary. The Big Haynes Creek (Headwaters to Brushy Creek) and No Business Creek stream segments are located in Gwinnett County. The Swift Creek stream segment is located in DeKalb County.

All of these stream segments are listed for not meeting water quality standards for fecal coliform except Boar Tusk Creek, which is violating water quality standards for pH. Fecal Coliform bacteria are bacteria found in the intestinal tract of humans and animals. Its presence in streams, rivers, and lakes is an indicator of possible harmful pathogens. As explained in the TMDL for Boar Tusk Creek pH is a measure of acidity and alkalinity of a given solution. One of the most significant environmental impacts of pH is the effect that it has on the solubility and thus bioavailability of other substances. As the pH falls (solution becomes more acidic) many insoluble substances become more soluble and thus available for absorption. Data from USGS Monitoring Stations were used to develop the TMDL for each segment.

For each waterbody on the 303(d) list, the U.S. Clean Water Act requires a TMDL be developed for each pollutant. A TMDL is a calculation of the maximum amount of a pollutant, from both point and non-point sources that a waterbody can receive and still meet water quality standards. The U.S. EPA developed TMDLs for the six stream segments that are not meeting water quality standards for fecal coliform. This U.S. EPA document is dated February 2002 and shows a reduction in fecal coliform loads is needed for these six stream segments. The required reductions are as follows: 85% for Big Haynes Creek (Headwaters to Brushy Creek), 85% for

Big Haynes Creek (Little Haynes Creek to Yellow River), 85% for Big Haynes Creek (Brushy Creek to Little Panther Creek), 69% for No Business Creek, 71% for Swift Creek, and 64% for Yellow River. The U.S. EPA used another appropriate measure to determine the TMDL for the Boar Tusk Creek pH violation. The required reduction or TMDL target for Boar Tusk Creek is the state's numeric pH criterion (6.0 – 8.5).

Staff from the DeKalb County Public Works, Rockdale County Water Resources, and Gwinnett County Department of Public Utilities helped to identify the potential sources of pollution in these segment watersheds. The following potential fecal coliform pollution sources were identified for this HUC10 watershed: urban runoff, leaking/failing septic systems, animal waste, SSOs, illicit connections, agriculture, and NPDES permitted point sources. There are no permitted discharges in the Boar Tusk Creek watershed therefore urban runoff was listed as the only potential pollution source that could be contributing to the instream pH violation.

This implementation plan was developed with the help of representatives from the Gwinnett County Department of Public Utilities, Gwinnett County Board of Health, DeKalb County Public Works, Rockdale County Water Resources, Rockdale County Department of Public Services and Engineering, Rockdale County Board of Health, DeKalb County Board of Health, and the cities of Conyers, Loganville, Grayson, Snellville, and Lithonia. The Atlanta Regional Commission coordinated the public meetings and the input received from local stakeholders and technical advisory staff. Newton County and Walton County do not lie in the Atlanta Regional Commission's service area and was not included in this TMDL Implementation Plan. The Northeast Georgia Regional Development Center contains Newton County and Walton County in its service area. Input from local government and stakeholders within Newton County and Walton County addresses impairment due to fecal coliform of Little Haynes Creek, a tributary draining into Big Haynes Creek, in a separate TMDL Implementation Plan prepared by the Northeast Georgia RDC. Stakeholders were identified in this plan with the input of local governments and by searching the counties' tax records to determine large landowners. We also used the U.S. EPA's Enforcement and Compliance History Online (ECHO) website to search for large industries in the watershed. Other stakeholders listed in the plan were included because of their interest in the affected watershed at either the December, January, March, April, May, or July public meetings. The stream segments in Rockdale County were discussed at an initial December 2002 meeting to educate stakeholders about the TMDL process and to solicit input from local stakeholders. This meeting was followed up with another meeting in January 2003 to discuss the draft implementation plans that were mailed to all the listed stakeholders. The stream segments in Gwinnett County were discussed at two initial public meetings in March 2003 to educate stakeholders about the TMDL process and to solicit input from local stakeholders. These meetings were followed up with another 2 meetings in April 2003 to discuss the draft implementation plans that were mailed to all the listed stakeholders. The stream segment in DeKalb County was discussed at an initial public meeting in May 2003 to educate stakeholders about the TMDL process and to solicit input from local stakeholders. This meeting was followed up with another meeting in July 2003 to discuss the draft implementation plans. Comments and requested revisions to the draft plans have been considered in developing this final draft implementation plan.

The GA EPD will be conducting TMDL monitoring in the Ocmulgee River Basin in 2004. This data will be used to list and possibly delist stream segments. Gwinnett County currently operates a monitoring program as a part of their NPDES MS4 Permit, which includes Fecal Coliform and Dry Weather Screening. In mid-2003, Gwinnett County will begin a Fecal Coliform Monitoring Program to monitor the status of the 303(d) listed stream segments in unincorporated Gwinnett County. This program is based on a monitoring plan that has been approved by GA EPD and meets all requirements for monitoring done to delist a stream segment. The DeKalb County Water & Sewer Division of the Public Works has numerous monitoring plans in place to sample fecal coliform levels. Rockdale County also has a fecal coliform monitoring program in place.

A portion of the Gwinnett, DeKalb, and Rockdale Counties' and the affected cities' management measures are based on their NPDES Phase I and Phase II Municipal Separate Storm Sewer System (MS4) Permit requirements. Other management measures included in the plan are voluntary such as Gwinnett County's septic to sewer transition program. DeKalb County's voluntary programs include the South River Watershed Assessment and Management Plan and their Point Source Pollution Control program. The DeKalb County Public Works, Rockdale County Water Resources, and Gwinnett County Department of Public Utilities all have extensive public education / outreach programs in place to educate the general public about water quality concerns. All of these programs include a range of activities such as educational brochures/bill inserts and activities for schools age students. DeKalb and Gwinnett Counties participate in the Clean Water Campaign ([www.cleanwatercampaign.com](http://www.cleanwatercampaign.com)). In addition Gwinnett County maintains an educational website ([www.gwinnettstormwater.com](http://www.gwinnettstormwater.com) ). DeKalb County also maintains a website with water related issues (<http://dklbweb.dekalbga.org/watersewer>). An active Adopt-A-Stream program and storm drain stenciling program operate in both DeKalb and Gwinnett Counties.

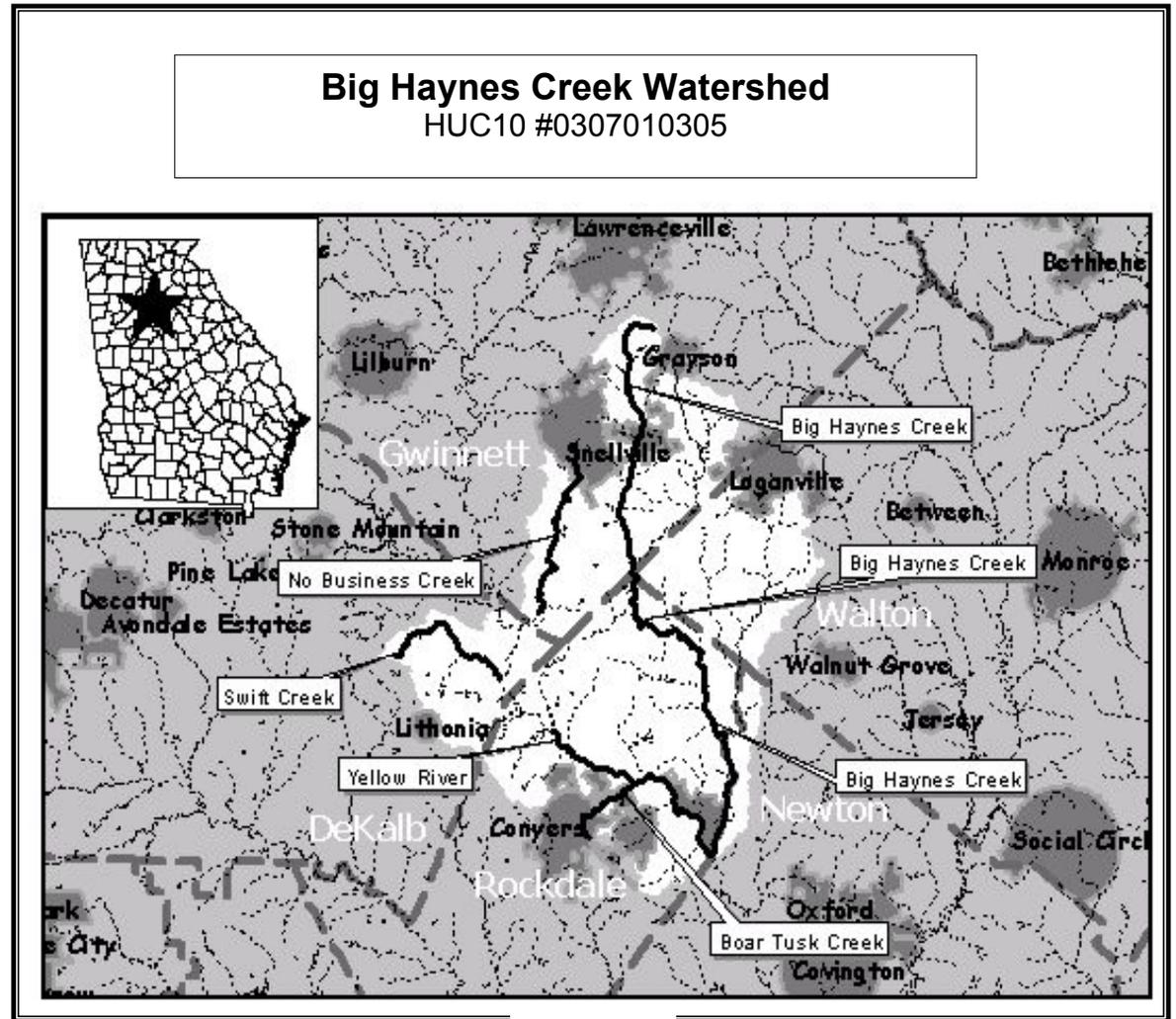
The purpose of this implementation plan is to reduce or eliminate the sources of fecal coliform bacteria contributing to these stream segments in order to meet the fecal coliform water quality standard. The water quality attainment date will be ten years from the time the implementation plan is approved.

**STATE OF GEORGIA**  
**REVISED TMDL IMPLEMENTATION**  
**PLAN**  
**WATERSHED APPROACH**

Local Watershed Governments  
**ATLANTA REGIONAL COMMISSION**  
 Rockdale County      Gwinnett County  
 DeKalb County        Walton County  
 City of Snellville     City of Conyers  
 City of Loganville     Newton County

TMDL Implementation Plans are platforms for establishing a course of action 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 waterbodies/streams and the corresponding pollutants.** The impaired waterbodies are located in the same watershed/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 resources affecting the watershed. 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 impaired streams.



**Figure 1**

Impaired Waterbody*	Impaired Stream Location	Impairment
1. Big Haynes Creek	Headwaters to Brushy Creek	Fecal Coliform (FC)
2. Big Haynes Creek	Little Haynes Creek to Yellow River	Fecal Coliform (FC)
3. Big Haynes Creek	Brushy Creek to Little Panther Creek	Fecal Coliform (FC)

\*These Waterbody Numbers are referenced throughout the Implementation Plan.

Watershed: Big Haynes Creek  
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<b>Impaired Waterbody*</b>	<b>Impaired Stream Location</b>	<b>Impairment</b>
4. Boar Tusk Creek	Headwaters to Yellow River	pH
5. No Business Creek	Headwaters to Norris Lake	Fecal Coliform (FC)
6. Swift Creek	Headwaters to Yellow River	Fecal Coliform (FC)
7. Yellow River	Hammock Creek to Big Haynes Creek	Fecal Coliform (FC)

# Action Plan for Big Haynes Creek Watershed

POLLUTANT:	SOURCE:	EFFECT:	WHAT CAN I DO?	
			At Home: Community, School	At Work: Business, Government
<input type="checkbox"/> Dissolved Oxygen (DO) <input checked="" type="checkbox"/> Fecal Coliform (FC) <input type="checkbox"/> Sediment <input type="checkbox"/> Metals <input type="checkbox"/> Fish Consumption Guidelines (FCG) <input checked="" type="checkbox"/> Other (Please List) pH	<input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Urban <input type="checkbox"/> Agriculture <input type="checkbox"/> Forestry <input checked="" type="checkbox"/> Residential <input checked="" type="checkbox"/> Other (Please List) Urban Runoff, Leaking/Failing Septic Systems, Agriculture, SSO, Illicit Connections, Pet Waste, Hobby Farms, Wildlife, Gwinnett County Big Haynes Creek Water Reclamation Facility, Gwinnett County No Business Creek Water Reclamation Facility, Rockdale County Quigg Branch Water Reclamation Facility, Lake View Utilities Inc.	<input type="checkbox"/> Habitat <input checked="" type="checkbox"/> Recreation <input type="checkbox"/> Drinking Water <input type="checkbox"/> Aesthetics <input type="checkbox"/> Other (Please List)	- Routine & regular maintenance of septic systems - Properly dispose of pet waste	- Routine & regular maintenance of septic systems - Report sewer leaks or septic tank failure if found

## 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)
Unincorporated Gwinnett County	Stenciling Program	1, 5	General Public	On going (Enacted: 9/98)
Unincorporated Gwinnett County	Utility bill inserts	1, 5	General Public	On going (Enacted: 9/98)
Unincorporated Gwinnett County	Pet Waste Brochure	1, 5	General Public	On going (Enacted: 10/00)
Unincorporated Gwinnett County	Pet Waste Sign Program in Parks	1, 5	General Public	On going (Enacted: 2/03)
Unincorporated Gwinnett County	Adopt A Stream	1, 5	General Public	On going (Enacted: 7/91)
Unincorporated Gwinnett County	Septic Tank Maintenance Folder	1, 5	General Public	On going (Enacted: 12/02)
Unincorporated Gwinnett County	Educational School Activities	1, 5	School age students	On going (Enacted: 9/94)
Unincorporated Gwinnett County	Menu for a Cleaner Environment	1, 5	Restaurants	On going (Enacted: 11/98)
Unincorporated Gwinnett County	Septic Tank Workshop	1, 5	General Public	2/03
Unincorporated Gwinnett County	Watershed Festival	1, 5	General Public	10/01
Unincorporated Gwinnett County	Clean Water Campaign	1, 5	General Public	On going (Enacted: 1/00)
Unincorporated Gwinnett County	Gwinnett County Storm Water Website <a href="http://www.gwinnettstormwater.com">www.gwinnettstormwater.com</a>	1, 5	General Public, Professional and Industry	On going (Enacted: 8/02)
City of Snellville	Distribution of Gwinnett County stormwater educational information	1, 5	General Public	Ongoing
City of Snellville	Snellville Website <a href="http://www.snellville.org">www.snellville.org</a>	1, 5	General Public, Professional	Ongoing
DeKalb County Roads & Drainage Division	Storm drain stenciling program	6	General public (residential /commercial/industrial)	Ongoing (1999)
DeKalb County Roads & Drainage Division	Educational brochures	6	General public (residential/commercial/industrial)	Ongoing (1999)
DeKalb County / Atlanta Regional Commission	Clean Water Campaign	6	General public	Ongoing (2000)
DeKalb County Keep DeKalb Clean Office	Clean Up campaigns; Adopt-A-Stream	6	General public	Ongoing (2002)
DeKalb County Water & Sewer Division	Utility bill inserts: septic tank maintenance, nonpoint source pollution control; pet wastes	6	General public	Ongoing (2000)
DeKalb County Water & Sewer Division	WaterMatters newsletters	6	General public	Ongoing (2001)
DeKalb County Water & Sewer Division	Web site: <a href="http://dklbweb.dekalbga.org/watersewer">http://dklbweb.dekalbga.org/watersewer</a>	6	General public (residential/commercial/industrial); teachers; students	Ongoing (2000)
DeKalb County Water & Sewer Division	WaterMatters poster contest	6	Grade school students	Ongoing (2003)
DeKalb County Water & Sewer Division	Web search and poster/collage	6	Middle school students	Ongoing (2003)
City of Grayson	Distribution of Gwinnett County stormwater educational information	1	General Public	Ongoing
City of Loganville	Educational School Activities	1	School Age Students	Ongoing (Enacted: 2004)
City of Loganville	Educational Utility Bill Inserts	1	General Public	Ongoing (Enacted: 9/03)
Rockdale Water Resources	Airing GA EPD's "Watershed Wisdom: Georgia's TMDL Program" video on the county's cable access channel.	2, 3, 4, 7	General Public	Ongoing

Rockdale Water Resources / Rockdale Co. Health Department	Septic Tank Educational Mailer / Bill Insert	2, 3, 4, 7	General Public	Spring 2003
GA Cooperative Extension Service	4-H Environmental Education Program	2, 3, 4, 7	Grades K-12	Ongoing
GA Waterwise Council	The Water Sourcebook (EPA)	2, 3, 4, 7	Grades K-12	Ongoing
Rockdale Water Resources	Development of brochure / bill insert to address the hazards of fecal coliform entering the waterways and affecting public health issues. This will inform the public of the effects of Fecal Coliform bacteria from places like manure piles, boarding facilities, etc.	2, 3, 4, 7	General Public	2004
Rockdale Water Resources	Making available the ACCG "Water Resources: A Toolkit for Local Governments" Educational CD-ROM	2, 3, 4, 7	General Public	Ongoing

## STAKEHOLDERS

EPD encourages public involvement and the active participation of stakeholders in the process of improving water quality. Stakeholders can provide valuable information and data regarding their community and the impaired water bodies and can provide insight and/or implement management measures.

List of local governments, agricultural organizations or significant landholders, commercial forestry organizations, businesses and industries, and local organizations including environmental groups and individuals with a major interest in this watershed.

Name/Organization	Address	City	State	Zip	Phone	E-Mail
GA EPD, Water Protection Branch	4220 International Pkwy, Suite 101	Atlanta	GA	30354	(404) 675-1751	
Gwinnett County Board of Commissioners (Chairman)	75 Langley Drive	Lawrenceville	GA	30045	(770) 822-7000	
Gwinnett County Department of Public Utilities	684 Winder Highway	Lawrenceville	GA	30045	(678) 376-6949	<a href="mailto:leost@co.gwinnett.ga.us">leost@co.gwinnett.ga.us</a>
Gwinnett County Board of Health	240 Oak Street	Lawrenceville	GA	30045	(770) 963-5132	<a href="mailto:vggoins@dhr.state.ga.us">vggoins@dhr.state.ga.us</a>
Gwinnett County Public Schools (Superintendent)	52 Gwinnett Drive	Lawrenceville	GA	30045	(770) 963-8651	
Gwinnett County Extension Service	750 South Perry Street, Suite 400	Lawrenceville	GA	30045	(678) 377-4020	<a href="mailto:rbrannen@uga.edu">rbrannen@uga.edu</a>
GA Adopt-A-Stream	4220 International Pkwy, Suite 101	Atlanta	GA	30354	(404) 675-1636	
NRCS	P.O. Box 8	Monroe	GA	30655	(770) 267-8363 Ext. 3	<a href="mailto:jose.pagan@gamonroe.fsc.usda.gov">jose.pagan@gamonroe.fsc.usda.gov</a>
GA Soil & Water Conservation Comm.	1500 Klondike Rd., Suite A109	Conyers	GA	30094	(770) 761-3020	<a href="mailto:kshahlaee@gaswcc.org">kshahlaee@gaswcc.org</a>
Loganville City Council	P.O. Box 39	Loganville	GA	30052		
City of Loganville Public Utilities Dept. (Director)	P.O. Box 39	Loganville	GA	30249	(770) 466-1306	
Snellville City Council	P.O. Box 844	Snellville	GA	30078	(770) 985-3514	<a href="mailto:jtimler@snellville.org">jtimler@snellville.org</a>
City of Snellville Department of Planning and Development	P.O. Box 844, 2430 Main Street, East	Snellville	GA	30078	(770) 985-3514	<a href="mailto:jtimler@snellville.org">jtimler@snellville.org</a>
Grayson City Council	P.O. Box 208	Grayson	GA	30017	(770) 963-8017	<a href="mailto:graysoncty@aol.com">graysoncty@aol.com</a>
Lenora Baptist Church	4136 Lenora Church Road	Snellville	GA	30039	(770) 736-1919	
Snellville United Methodist	2428 East Main Street	Snellville	GA	30078	(770) 972-9360	
Chapel Woods Presbyterian	3800 Lenora Church Road	Snellville	GA	30039	(770) 978-1445	
First Baptist Church	2400 East Main Street	Snellville	GA	30078	(770) 978-7000	
Westminster Presbyterian	2208 East Main Street	Snellville	GA	30078	(770) 979-9676	
Faith Community Church	2138 East Main Street	Snellville	GA	30078	(770) 985-4463	
Snellville Pavilion (attn. KIMCO)	PO Box 976	Jonesboro	GA	30237	(770) 472-2626	
Wisteria Village (attn. Lisa Queen)	2135A Fairburn Road	Douglasville	GA	30135	(770) 838-0673	
Pharr Elementary	1500 North Road	Snellville	GA	30078	(770) 98500244	
Norton Elementary	3050 Carson Road	Snellville	GA	30039		

Name/Organization	Address	City	State	Zip	Phone	E-Mail
Snellville Middle School	3155 East Pate Road	Snellville	GA	30078	(770) 972-1530	
Southeast Gwinnett Cooperative	2408 East Main Street	Snellville	GA	30078	(770) 985-5229	
Melvin Everson	1725 Winding Creek Circle	Snellville	GA		770-972-0645	<a href="mailto:mayorprotemp@aol.com">mayorprotemp@aol.com</a>
George H. Cown, Jr.	440 Hope Hollow Rd.	Loganville	GA	30052	770-554-3750	
Susan C. Gerard	449 Hope Hollow Rd.	Loganville	GA	30052	770-466-1493	<a href="mailto:tsgerard@earthlink.com">tsgerard@earthlink.com</a>
Snellville Christian Church	2485 Scenic Highway South	Snellville	GA	30078	770-972-0767	
Church of Christ at Snellville	3025 Lenora Church Road	Snellville	GA	30039	770-972-6988	
Heritage Village (attn Chip Adair)	2056-A West Park Place	Stone Mountain	GA	30087	770-498-7777	
New London Plaza (attn. Robert Mimms)	84-A Mill Street	Roswell	GA	30075	770-518-1100	
Oakland Village (attn. City of Snellville)	PO Box 844	Snellville	GA	30078	770-985-3500	
Snellville Plaza (attn. Michael Plasker)	5025 Winters Chapel Road	Atlanta	GA	30360	770-698-0403	
Snellville Oaks (attn. Ruth Stark)	5595 Whispering Pines Road	Mabelton	GA	30126	678-945-4252	
Britt Elementary	2503 Skyland Drive	Snellville	GA	30078		
South Gwinnett High	2288 East Main Street	Snellville	GA	30078	770-972-4840	
DeKalb County School System (Superintendent)	3770 North Decatur Road	Decatur	GA	30032	678-676-0010	
NRCS (Lawrenceville, GA Office)	750 South Perry St., Suite 410	Lawrenceville	GA	30045	770-963-9288	
DeKalb County Public Works (Margo Howse)	1580 Roadhaven Drive	Stone Mountain	GA	30083	770-621-7213	<a href="mailto:mahowse@co.dekalb.ga.us">mahowse@co.dekalb.ga.us</a>
DeKalb County Extension Service	4380 Memorial Drive	Decatur	GA	30032		
East Lake Heights (Ms. Evelyn Bailey)	1841 Camellia Drive	Decatur	GA	30032		
City of Clarkston (Honorable Lee Swaney)	3921 Church Street	Clarkston	GA	30021		
City of Clarkston (Mr. Bill Adams)	3921 Church Street	Clarkston	GA	30021		
Clayton County Water Authority (Mr. Wade Brannan)	1600 Battle Creek Road	Morrow	GA	30260		
Clayton State College & University (Dr. Helen Brown)	5900 N. Lee Street	Morrow	GA	30260		
City of Stone Mountain (Honorable Gary Peet)	PO Box 454	Stone Mountain	GA	30083		
City of Stone Mountain (Mr. Jim Tavenner)	922 Main Street	Stone Mountain	GA	30083		
Henry County Water and Sewerage Authority (Mr. Lindy Farmer, Jr.)	533 Hampton Road	McDonough	GA	30253		
City of Decatur (Honorable William Floyd)	PO Box 220	Decatur	GA	30031		
City of Decatur (Mr. Miguel Valentine)	2635 Talley Street	Decatur	GA	30030		
City of Pine Lake (Honorable Greg Zarus)	459 Pine Lake Drive	Pine Lake	GA			
City of Pine Lake (Ms. Mavis Crossley)	450 Pine Lake Drive	Pine Lake	GA	30072		
City of Lithonia (Honorable Marcia Glenn)	6980 Main St.	Lithonia	GA	30058		
City of Lithonia (City Clerk)	6980 Main Street	Lithonia	GA	30058		
City of Chamblee (Honorable Evelyn Kennedy)	5468 Peachtree Rd.	Chamblee	GA	30341		
City of Chamblee (Mr. Tillman Hannon)	5468 Peachtree Road	Chamblee	GA	30341		
Sierra Club (Mr. Glenn Groszmann)	160 Thompson Place	Roswell	GA	30075		
				-3506		
City of Atlanta (Ms. Marilyn Johnson)	55 Trinity Avenue, Suite 5800	Atlanta	GA	30335		
Rockdale County (Mr. Larry Kaiser)	2570 Old Covington Highway	Conyers	GA	30012		
City of Avondale Estates (Honorable John Lawson)	21 North Avondale Pl.	Avondale Estates	GA	30002		
City of Avondale Estates (Mr. Warren Hutmacher)	21 North Avondale Pl.	Avondale Estates	GA	30002		
City of Doraville (Honorable Gene Lively)	3725 Park Avenue	Doraville	GA	30340		
GA Dept. of Natural Resources (Mr. Vince Williams)	4220 International Parkway	Atlanta	GA	30354		
DeKalb Chamber of Commerce (Mr. Ed Nelson, Jr.)	750 Commerce Drive	Decatur	GA	30030		
City of Decatur (Mr. Daniel Newman)	PO Box 220	Decatur	GA	30031		

Name/Organization	Address	City	State	Zip	Phone	E-Mail
Pharr Engineering (Mr. Keith Pharr)	1770 Century Circle	Atlanta	GA	30345		
Cherry Ridge Homeowner Association (Mr. Dexter Pierce)	3737 Cherry Ridge	Decatur	GA	30030		
Clayton State College & University (Dr. Linda Samson)	5900 N. Lee Street	Morrow	GA	30260		
Gwinnett Department of Public Utilities (Mr. Jim Scarbrough)	684 Winder Highway	Lawrenceville	GA	30045		
Oglethorpe Power (Mr. Robert Steele)	2100 East Exchange Place	Tucker	GA	30085		
Clayton County Water Authority (Mr. Mike Thomas)	1600 Battle Creek Road	Morrow	GA	30260		
PRIDE Neighborhood Association (Mr. O.C. Thornton)	4096 Warrior Trail	Stone Mountain	GA	30083		
Rockdale Water Resources (Ms. Laurie Ashmore)	P.O. Box 289	Conyers	GA	30094		
South River Alliance (Ms. Joan Walker)	2812 Rainbow Forest Drive	Decatur	GA	30034		
South DeKalb Community Development Corporation (Ms. Sarah Woods)	1970 Mark Trail	Decatur	GA	30032		
DeKalb County Health Department (Mr. Robert Blake)	PO Box 987	Decatur	GA	30031		
Ernst Enterprises of Georgia	7535 Rock Mountain Road	Lithonia	GA	30058		
Hanson Aggregates SE	6978 Rogers Lake Road	Lithonia	GA	30058		
Lafarge Aggregates Se Inc	7621 Rock Mountain Road	Lithonia	GA	30058		
Thomas Concrete of Georgia	6963 Maddox Road	Lithonia	GA	30058		
Weyerhaeuser Company Container Division	6792 Marbut Road	Lithonia	GA	30058		
City of Conyers (Mayor)	1184 Scott St.	Conyers	GA	30012	(770) 929-4226	<a href="mailto:randy.mills@conyersga.com">randy.mills@conyersga.com</a>
City of Conyers Planning and City Services (Director)	1184 Scott St.	Conyers	GA	30012	(770) 929-4281	<a href="mailto:marvin.flanigan@conyersga.com">marvin.flanigan@conyersga.com</a>
Rockdale Co. Board of Commissioners (Chairman)	962 Milstead Ave.	Conyers	GA	30012	(770) 929-4001	<a href="mailto:jennifer.rutledge@rockdalecounty.org">jennifer.rutledge@rockdalecounty.org</a>
Rockdale Co. Water Resources (Director)	958 Milstead Ave.	Conyers	GA	30012	(770) 602-4344	<a href="mailto:Laurie.Ashmore@rockdalecounty.org">Laurie.Ashmore@rockdalecounty.org</a>
Rockdale Co. Public Services and Engineering (Director)	958 Milstead Ave.	Conyers	GA	30012	(770) 785-5919	<a href="mailto:larry.kaiser@rockdalecounty.org">larry.kaiser@rockdalecounty.org</a>
Rockdale Co. Environmental Health (Joe Farmer)	958 Milstead Ave., Suite 102	Conyers	GA	30012	(770) 785-5948	<a href="mailto:jmfarmer@ph.dnr.state.ga.us">jmfarmer@ph.dnr.state.ga.us</a>
Rockdale Co. Board of Education (Superintendent)	954 Main Street	Conyers	GA	30012	(770) 860-4211	
GA Soil & Water Conservation Comm.	1500 Klondike Rd., Suite A109	Conyers	GA	30094	(770) 761-3020	<a href="mailto:kshahlaee@gaswcc.org">kshahlaee@gaswcc.org</a>
GA Adopt-A-Stream	4220 International Pkwy, Suite101	Atlanta	GA	30354	(404) 675-1636	
Edwards Middle School	2633 Stanton Rd.	Conyers	GA	30094	(770) 483-3255	
Rockdale County Parks and Recreation	PO Box 224	Conyers	GA	30012	(770) 785-5922	<a href="mailto:linda.evans@rockdalecounty.org">linda.evans@rockdalecounty.org</a>
Rockdale Hospital & Health System (CEO)	1412 Milstead Ave.	Conyers	GA	30012	(770) 918-3000	
Lakeview Estates Homeowners Corp.	1733 Lake Rockaway Rd., NW	Conyers	GA	30012	(770) 760-8713	
Lake Capri Homeowners Assoc. (President)	2551 Amalfi Drive	Conyers	GA	30012	(770) 482-8065	<a href="mailto:HenryDuffy@cs.com">HenryDuffy@cs.com</a>
South Rockdale Civic Association	3390 Hwy 20 SE	Conyers	GA	30013	(770) 922-7292	<a href="mailto:eimash33@bellsouth.net">eimash33@bellsouth.net</a>
C.J. Hicks Elementary School (Principal)	930 Rowland Rd.	Conyers	GA	30012	(770) 483-4410	
Rockdale Co. High School (Principal)	1174 Bulldog Circle	Conyers	GA	30012	(770) 483-8754	
LSPI Exchange Corp.	20 South Bonita Cruz Ave	Los Gatos	CA	95030		
Eastside Land Co. Inc.	P.O. Box 458	Conyers	GA	30012		
Westminster Presbyterian Church	2484 Lake Rockaway Rd NW	Conyers	GA	30012		
Durden Land and Property Unlimited Inc.	2107 Emory St.	Covington	GA	30014	(770) 787-2474	

Name/Organization	Address	City	State	Zip	Phone	E-Mail
Eltab Inc. (c/o D.J. Martin)	P.O. Box 725182	Atlanta	GA	31139		
Carpenter R Co.	Conyers Station Rd.	Conyers	GA	30208		
Hill Phoenix Div Dover Diversified Co.	709 Sigman Rd.	Conyers	GA	30208		
C&D Technologies Inc.	1835 Industrial Blvd.	Conyers	GA	30012	(770) 483-7264	
Scott G. Williams	2111 General Arts Rd, NW	Conyers	GA	30012		
Jett Corp Inc.	1800 Sarasota Pkwy.	Conyers	GA	30013	(770) 483-7458	<a href="mailto:ssyed@prattindustries.com">ssyed@prattindustries.com</a>
Universal RX Solutions of GA	2084-900 Lake Ind. Ct.	Conyers	GA	30013		
Dan Harrell Construction Co	2578 Old Covington Rd.	Conyers	GA	30207	(770) 922-7544	
Tuscarora Plastics, Inc. (Plant Mgr.)	1830 Rockdale Industrial Blvd.	Conyers	GA	30207	(770) 929-3800	
Visy Paper Inc. (Mill Mgr.)	1800 Sarasota Business Pkwy.	Conyers	GA	30207	(770) 602-1190	
Gwinnett Co. Board of Commissioners (Chairman)	75 Langley Drive	Lawrenceville	GA	30045	(770) 822-7000	
DeKalb Co. Board of Commissioners (CEO)	1300 Commerce Drive	Decatur	GA	30030	404-371-2881	<a href="mailto:ceo@co.dekalb.ga.us">ceo@co.dekalb.ga.us</a>
Pratt Industries (Randy Clark)	1800 Sarasota Pkwy	Conyers	GA	30094	(770) 922-5400	<a href="mailto:rclark@prattindustries.com">rclark@prattindustries.com</a>
Old South Farms, Inc. (Don B. Adams)	35 Meadow Ridge	Social Circle	GA	30025	(770) 787-7582	<a href="mailto:Rockyadams1@hotmail.com">Rockyadams1@hotmail.com</a>
Eastside Land Co, Inc (Marilyn Kelly)	P.O. Box 458	Conyers	GA	30012	(770) 760-0446	<a href="mailto:Mjk1134@mindspring.com">Mjk1134@mindspring.com</a>
Roger Hatch	2385 White Rd.	Conyers	GA	30012	(770) 483-6539	
Tom Sigman	1469 Reagan Circle	Conyers	GA	30012	(770) 483-7845	
Whispering Pine Air Park (Cecil D. Etheredge)	5146 Whispering Pines	Conyers	GA	30012	(770) 483-2558	
Gwinnett County Parks and Recreation (Div. Director)	75 Langley Dr.	Lawrenceville	GA	30045	(770) 822-8840	
Duckett Assoc. LP	5656 Stillwater Ct.	Stone Mountain	GA	30087		
South Rockdale Civic Association	3390 Hwy 20 SE	Conyers	GA	30013	(770) 922-7292	<a href="mailto:einash33@bellsouth.net">einash33@bellsouth.net</a>
CV Forrester	1150 Haynes Creek Dr., NE	Conyers	GA	30012	(770) 922-6142	

## 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 the streams on the 303(d) list will be provided upon request.

Waterbody Name #1	Location	Miles/Area Impacted	Use Classification	Partially Supporting/ Not Supporting (PS/NS)
Big Haynes Creek	Headwaters to Brushy Creek	9 miles	Fishing/Drinking Water	PS
Primary County	Secondary County	Second RDC	Source (Point/ Nonpoint)	
Gwinnett			Big Haynes Creek WRF Urban Runoff (UR)	
Pollutants	Water Quality Standards	Required Load Reduction	TMDL ID	Date TMDL Established
FC	1,000 per 100 ml (geometric mean Nov-April) and 200 per 100 ml (geometric mean May-Oct)	85%		February 2002

Watershed: Big Haynes Creek  
HUC10: #0307010305

<b>Waterbody Name #2</b>	<b>Location</b>	<b>Miles/Area Impacted</b>	<b>Use Classification</b>	<b>Partially Supporting/ Not Supporting (PS/NS)</b>
Big Haynes Creek	Little Haynes Creek to Yellow River	5 miles	Drinking Water	PS

<b>Primary County</b>	<b>Secondary County</b>	<b>Second RDC</b>	<b>Source (Point/ Nonpoint)</b>
Rockdale			Big Haynes Creek WRF Urban Runoff (UR)

<b>Pollutants</b>	<b>Water Quality Standards</b>	<b>Required Load Reduction</b>	<b>TMDL ID</b>	<b>Date TMDL Established</b>
FC	1,000 per 100 ml (geometric mean Nov-April) and 200 per 100 ml (geometric mean May-Oct)	85%		February 2002

<b>Waterbody Name #3</b>	<b>Location</b>	<b>Miles/Area Impacted</b>	<b>Use Classification</b>	<b>Partially Supporting/ Not Supporting (PS/NS)</b>
Big Haynes Creek	Brushy Creek to Little Panther Creek	2 miles	Drinking Water	PS

<b>Primary County</b>	<b>Secondary County</b>	<b>Second RDC</b>	<b>Source (Point/ Nonpoint)</b>
Rockdale			Big Haynes Creek WRF Urban Runoff (UR)

<b>Pollutants</b>	<b>Water Quality Standards</b>	<b>Required Load Reduction</b>	<b>TMDL ID</b>	<b>Date TMDL Established</b>
FC	1,000 per 100 ml (geometric mean Nov-April) and 200 per 100 ml (geometric mean May-Oct)	85%		February 2002

<b>Waterbody Name #4</b>	<b>Location</b>	<b>Miles/Area Impacted</b>	<b>Use Classification</b>	<b>Partially Supporting/ Not Supporting (PS/NS)</b>
Boar Tusk Creek	Headwaters to Yellow River	11 miles	Fishing	PS

<b>Primary County</b>	<b>Secondary County</b>	<b>Second RDC</b>	<b>Source (Point/ Nonpoint)</b>
Rockdale			Urban Runoff (UR)

<b>Pollutants</b>	<b>Water Quality Standards</b>	<b>Required Load Reduction</b>	<b>TMDL ID</b>	<b>Date TMDL Established</b>
Contributing to pH	6.0-8.5 pH @ normal and 7Q10 flows	Reduce load to correct TMDL sampling measurements below 6.0 pH		February 2002

Watershed: Big Haynes Creek  
HUC10: #0307010305

<b>Waterbody Name #5</b>	<b>Location</b>	<b>Miles/Area Impacted</b>	<b>Use Classification</b>	<b>Partially Supporting/ Not Supporting (PS/NS)</b>	
No Business Creek	Headwaters to Norris Lake	6 miles	Fishing	PS	
<b>Primary County</b>	<b>Secondary County</b>	<b>Second RDC</b>		<b>Source (Point/ Nonpoint)</b>	
Gwinnett				No Business Creek WRF Urban Runoff (UR)	
<b>Pollutants</b>	<b>Water Quality Standards</b>	<b>Required Load Reduction</b>		<b>TMDL ID</b>	<b>Date TMDL Established</b>
FC	1,000 per 100 ml (geometric mean Nov-April) and 200 per 100 ml (geometric mean May-Oct)	69%			February 2002

<b>Waterbody Name #6</b>	<b>Location</b>	<b>Miles/Area Impacted</b>	<b>Use Classification</b>	<b>Partially Supporting/ Not Supporting (PS/NS)</b>	
Swift Creek	Headwaters to Yellow River	5 miles	Fishing	NS	
<b>Primary County</b>	<b>Secondary County</b>	<b>Second RDC</b>		<b>Source (Point/ Nonpoint)</b>	
DeKalb				Urban Runoff (UR)	
<b>Pollutants</b>	<b>Water Quality Standards</b>	<b>Required Load Reduction</b>		<b>TMDL ID</b>	<b>Date TMDL Established</b>
FC	1,000 per 100 ml (geometric mean Nov-April) and 200 per 100 ml (geometric mean May-Oct)	71%			February 2002

<b>Waterbody Name #7</b>	<b>Location</b>	<b>Miles/Area Impacted</b>	<b>Use Classification</b>	<b>Partially Supporting/ Not Supporting (PS/NS)</b>
Yellow River	Hammock Creek (Hwy 124) to Big Haynes Creek	16 miles	Drinking Water	PS
<b>Primary County</b>	<b>Secondary County</b>	<b>Second RDC</b>		<b>Source (Point/ Nonpoint)</b>
Rockdale				Quigg Branch WRF Urban Runoff (UR)
<b>Pollutants</b>	<b>Water Quality Standards</b>	<b>Required Load Reduction</b>	<b>TMDL ID</b>	<b>Date TMDL Established</b>
FC	1,000 per 100 ml (geometric mean Nov-April) and 200 per 100 ml (geometric mean May-Oct)	64%		February 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 )

<b>Pollutant</b>	<b>Sources of Pollutants</b>	<b>Description of Contribution To Impairment</b>	<b>Impacted Waterbodies*</b>
FC	Urban Runoff	Non-point Source	1, 2, 3, 5, 6, 7
FC	Leaking/Failing Septic Systems	Leakage from septic system as a result of failure	1, 2, 3, 5, 6, 7
FC	Agriculture	Non-point source	1, 5
FC	SSO	Overflow due to grease and trash blockage	1, 5, 6, 7
FC	Illicit Connections	Cross connections of sanitary sewer to storm sewer.	1, 5, 6
FC	Pet Waste, Hobby Farms, Wildlife	Non-point Source	1, 2, 3, 5, 6, 7
FC	Gwinnett County Big Haynes Creek Water Reclamation Facility	Point Source	1, 2, 3
FC	Gwinnett County No Business Creek Water Reclamation Facility	Point Source	5
FC	Rockdale County Quigg Branch Water Reclamation Facility	Point Source	7
FC	Lake View Utilities, Inc.	Point Source	7
pH	Urban Runoff	Non-point Source	4

**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
NPDES Permit GA0033847	Georgia EPD	Gwinnett County Big Haynes Creek Water Reclamation Facility	Issued: 05/28/99	Enforced	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC		1, 2, 3	Within 18 months of final TMDL, EPD will modify those permits that need to include TMDL limits.

Measurable Milestones	Schedule		Comments
	Start	End	
Refer to Permit GA0033847			

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
NPDES Permit GA0023973	Georgia EPD	Gwinnett County No Business Creek Water Reclamation Facility	Issued: 06/30/99	Enforced	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC		5	Within 18 months of final TMDL, EPD will modify those permits that need to include TMDL limits.

Measurable Milestones	Schedule		Comments
	Start	End	
Refer to Permit GA 0023973			

Watershed: Big Haynes Creek  
HUC10: #0307010305

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
NPDES Permit GA0047678	Georgia EPD	Rockdale County Quigg Branch Water Reclamation Facility	Issued: 11/01/01	Enforced	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC		7	Within 18 months of final TMDL, EPD will modify those permits that need to include TMDL limits.

Measurable Milestones	Schedule		Comments
	Start	End	
Refer to Permit GA0047678			

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
NPDES Permit GA0035491	Georgia EPD	Lake View Utilities, Inc.	07/25/02	Enforced	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC	PID Discharge, Spills, Failure	7	Within 18 months of final TMDL, EPD will modify those permits that need to include TMDL limits.

Measurable Milestones	Schedule		Comments
	Start	End	
Refer to Permit GA0035491			

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Gwinnett County Storm Water Management Ordinance	Gwinnett County	Ordinance to address non-point source pollution	9/1996	Enforced	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal Coliform	Pet Waste, Urban Runoff	1, 5	Gives the inspectors a way to address non-point source pollution that is discharged into the MS4 system.

Measurable Milestones	Schedule		Comments
	Start	End	
Industrial inspections and illicit discharge investigations	9/96	On-going	

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Gwinnett County Development Regulations	Gwinnett County	Regulations modified to include water quality and quantity requirements in response to county's Watershed Protection Plan	1/2001	Enforced	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal Coliform	Non-point source	1, 5	Passing regulations that require developers and contractors to address water quality and quantity issues as they relate to changes in land cover has helped reduce nonpoint source pollution from new developments

Measurable Milestones	Schedule		Comments
	Start	End	
Water quality requirements added in Big Haynes Basin	11/97	1/2001	First county in the State of Georgia to require that water quality be addressed on new developments
Increase requirements for water quality and quantity, along with channel protection requirements	4/1999	1/2001	Modifications to the existing regulations and added channel protection.
Water Quality requirements changed County wide	1/2001	Ongoing	The regulations first adopted in 1997 for the Big Haynes Basin were expanded to include the remaining portions of Unincorporated Gwinnett County.

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Septic to Sewer Transition Program	Gwinnett County Department of Public Utilities	Program to facilitate the connection of subdivisions, currently served by septic systems, to the sanitary sewer.	November 2001	In-progress	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal Coliform	Failing Septic Systems	1, 5	Provides a procedure for a community to connect to the sanitary sewer

Measurable Milestones	Schedule		Comments
	Start	End	
Passed by Gwinnett County Board of Commissioners. Citizen petitions currently being processed as they are received.	11/01	On-going	

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Phase I – MS4 Permit	Gwinnett County Department of Public Utilities	The State of GA has issued Gwinnett County with a permit to operate the County’s Municipal Separate Storm Sewer System (MS4). As a part of this permit the County has developed and is implementing a Storm Water Management Program (SWMP). Major aspects of the permit and the SWMP include public education, illicit discharge detection and elimination, source identification activities, water sampling and reporting.	6-15-1994	In-progress	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Multiple	Non-point sources	1, 5	Program aims to ensure the development and implementation of water quality protection programs, which are directed by the State EPD. Effectiveness is reported on annually by report to EPD.

Measurable Milestones	Schedule		Comments
	Start	End	
Annual reports submitted by anniversary date of permit each year: June 15.	6-15-1994	On-going	

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Best Management Practices (BMP) Inspections	Gwinnett County	Inspection of water quality and quantity BMPs to insure they are properly maintained.	4/99	In-progress	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal Coliform	Non-point sources	1, 5	This program insures that the BMPs are maintained to insure that the water quality and quantity benefits continue.

Measurable Milestones	Schedule		Comments
	Start	End	
Require maintenance agreements and 18 month maintenance bond at the time of construction	2000	On going	Program will help property owners understand that these BMP’s must be maintained to continue providing water quality and quantity benefits.
Annual Field Inspections	2002	On going	Annual Inspections are done to insure that required maintenance is being done.

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Watershed Protection Plan	Gwinnett County	Assessment of watersheds and suggested protection measures	5/2000	In-progress	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC	Non-point source	1, 5	

Measurable Milestones	Schedule		Comments
	Start	End	
Passed Gwinnett County Board of Commissioner and Approved by the EDP	5/1998	5/2000	Updated Development Regulation and Start Master Planning

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Watershed Master Planning	Gwinnett County	Develop Capital Improvement Plans (CIP) for watersheds	10/2000	In-progress	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC	Non-point source	1, 5	Capital project will identify BMP's for retrofit and streams for restoration which should reduce non-point source pollution.

Measurable Milestones	Schedule		Comments
	Start	End	
Master Planning – 1 basin on average per year	10/2000	On-going	Basin CIP plans to be implemented as funding is available

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Sanitary Sewer Evaluation System	Gwinnett County DPU	Inspection program evaluates condition of manholes, and pipes (smoke test and TV). Walking easements looking for problems.	1987	In-Progress	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal	Sanitary Sewer System	1, 5	Effective in identifying system areas in need of rehabilitation. Rehab. Includes relining, pipe bursting, joint repair and seal, root control and easement clearing. Large reduction in I & I has been seen.

Measurable Milestones	Schedule		Comments
	Start	End	
Inspection Program	1987	On-going	

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Grease Trap Inspection Program	Gwinnett County DPU	Inspection of grease traps	6/1999	In-progress	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal	SSO due to excess grease in sanitary sewer lines.	1, 5	Inspections of grease traps should reduce the amount of grease in sanitary sewer system reducing SSO's

Measurable Milestones	Schedule		Comments
	Start	End	
Inspections	7/1999	On-going	

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Enhanced development ordinance and storm water ordinance	City of Loganville	Incorporates wider buffers, impervious surface limits, requires detention facilities, parking lot design standards, et al. Imposes storm water detention facilities on most new development.	3/03	Enforced	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal coliform	Urban runoff	1	Very effective

Measurable Milestones	Schedule		Comments
	Start	End	
All new development will be regulated We will expect all commercial parking lots to be swept, the city will street sweep the main street downtown area	6/03 2003	Ongoing	Acres under development must be recorded and data maintained.

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Stream sampling	City of Loganville	Use E. coli or fecal coliform sampling scheme to identify specific sources	2003/2004	Planned	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal coliform	Unknown	1	Very effective

Measurable Milestones	Schedule		Comments
	Start	End	
Survey sampling of the streams and their tributaries	2003	2004	Preliminary geographic coverage to identify tributaries or reaches of concern
Detailed sampling of streams and tributaries	2003	2004	Detailed geographic coverage of tributaries and reaches of concern to identify specific sources

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
NPDES Phase II Implementation	City of Loganville	Detailed storm water management plan including BMP's for water quality protection.	2004	Planned	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal coliform	Multiple	1	Very effective

Measurable Milestones	Schedule		Comments
	Start	End	
Implementation of approved Phase II Stormwater Plan	2003	Ongoing	Planning is in progress.

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Infiltration & Inflow Inspections and Repair	City of Loganville	Regular inspection and monitoring of sewer lines to detect and repair leakages	2003	Ongoing	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal coliform	Sewer line leakage	1	Very effective

Measurable Milestones	Schedule		Comments
	Start	End	
We will visually inspect all collection lines	2/03	2/04	
Start T.V. inspections of trouble areas	6/03	On going	

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Phase I MS4 Municipal Stormwater Permit	City of Grayson	As a Co-permittee with Gwinnett County, the City is required to have a comprehensive stormwater program, which includes public education and participation, illicit discharge detection and elimination, permitting and reporting, and program implementation. Stream inspections are a component of this program.	September 1997	In-progress	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC	Urban Runoff	1	The goals of this program are designed to improve water quality conditions and/or prevent further degradation of water quality and biotic integrity in the impaired stream corridor.

Measurable Milestones	Schedule		Comments
	Start	End	
Submit information annually to Gwinnett County for Phase I MS4 Annual Report	1998	Ongoing	

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Revised Development Regulations	City of Grayson	Adopted the revised development regulations produced by Gwinnett County. Regulations modified to include water quality and quantity requirements in response to county's Watershed Protection Plan	Feb. 2001	Enforced	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC	Urban Runoff	1	Passing regulations that require developers and contractors to address water quality and quantity issues as they relate to changes in land cover has helped reduce nonpoint source pollution from new developments

Measurable Milestones	Schedule		Comments
	Start	End	
City planner conducts development plan review to ensure compliance with revised regulations.	2002	Ongoing	Once the city planner reviews the plans they are forwarded to Gwinnett County for review & approval. Gwinnett County handles permitting and inspections for the city.

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Phase I MS4 Municipal Stormwater Permit	City of Snellville	As a Co-permittee with Gwinnett County, the City is required to have a comprehensive stormwater program, which includes public education and participation, illicit discharge detection and elimination, permitting and reporting, and program implementation. Stream inspections are a component of this program.	September 1997	In-progress	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC	Urban Runoff	1, 5	The goals of this program are designed to improve water quality conditions and/or prevent further degradation of water quality and biotic integrity in the impaired stream corridor.

Measurable Milestones	Schedule		Comments
	Start	End	
Implement an employee education program through internal quarterly newsletter	2003	Ongoing	
Storm Drain Stenciling in designated areas	2003	Ongoing	
Issue educational information on the City website	2003	Ongoing	

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Revised Development Regulation	City of Snellville	Adopted the revised development regulations produced by Gwinnett County. Regulations modified to include water quality and quantity requirements in response to county's Watershed Protection Plan	Feb. 2001	Enforced	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC	Urban Runoff	1, 5	Passing regulations that require developers and contractors to address water quality and quantity issues as they relate to changes in land cover has helped reduce nonpoint source pollution from new developments

Measurable Milestones	Schedule		Comments
	Start	End	
Conduct review of development plans to verify they meet current standards.	1980	Ongoing	Issue development permits.
Adopt stream buffer regulations in excess of state minimum.	2000	Ongoing	100' from top of bank for perennials streams, and 50' from top of bank for intermittent. Impervious setback of 150' for perennial and 75' for intermittent.
Adopted prohibition of septic tanks and potable water wells	2001	Ongoing	All new development must use sanitary sewer systems. New potable water wells are prohibited.
Snellville wins an Environmental Improvement award through the Keep Georgia Beautiful award program.	2003	Ongoing	Snellville earned statewide recognition for receiving first place for "Environmental Improvement" in the Keep Georgia Beautiful award program. The Keep Georgia Beautiful Foundation honored Snellville for its' progressive plans for an expanded Recycling Center; rededicating property for recreational uses to Briscoe Park; an aggressive tree planting and preservation program; revised regulations concerning buffer and septic tanks, and the City Center project that will redevelop a partially abandoned shopping center into a new City Hall, Senior Center, and public plaza. Preliminary site work is now underway for the new Recycling Center.

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Revised Tree and Landscape Ordinance	City of Snellville	One of the most aggressive tree protection and planting ordinances in the state. Reduction in run off and absorption are key results.	2000	Enforced	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC	Urban Runoff	1, 5	This aggressive tree planting and preservation program substantially helps with water quality and erosion.

Measurable Milestones	Schedule		Comments
	Start	End	
City received Tree City Award	2001 & 2002		<a href="http://www.snellville.org/plandev/treecityprog.htm">http://www.snellville.org/plandev/treecityprog.htm</a>

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Storm Water Management Ordinance (Chapter 62 of the Snellville Municipal Code)	City of Snellville	This ordinance provides the authority needed to inspect all drainage facilities and to actively regulate discharges of pollutants via storm runoff to streams. This ordinance is used to define the conditions upon which runoff to municipal storm water sewer systems are authorized.	September 1996	Enforced	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC	Urban Runoff	1, 5	Inspections will find and eliminate possible violations that could contribute to fecal coliform levels.

Measurable Milestones	Schedule		Comments
	Start	End	
Preliminary review of violation reports	Sept. 1996	Ongoing	
Forward Violation reports to Gwinnett County for further action	Sept. 1996	Ongoing	

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Identifying and Rectifying failing Septic Systems using Color Infrared Aerial Photography	Gwinnett County, Gwinnett County Board of Health	319 Grant to identify failing septic systems using color infrared aerial photography.	3/11/2003	In-progress	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal Coliform	Failing Septic Systems	1, 5	Method has been used effectively in the past by other jurisdictions.

Measurable Milestones	Schedule		Comments
	Start	End	
See 319 Grant document	3/03	7/06	

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
IAW O.C.G.A. 290-5-26	Gwinnett County Board of Health.	Rules and regulations for installation and repair of on-site sewage management systems.	June 30, 1980	Enforced	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal Coliform	Septic Systems	1, 5	This program ensures septic systems are installed and repaired in accordance with established procedures and specifications.

Measurable Milestones	Schedule		Comments
	Start	End	
Continue the process of reviewing the installation of septic systems as a part of the development review process	1980	Ongoing	1.) Gwinnett County has approximately 75,000 addresses that utilize onsite wastewater management systems for sewage disposal. The Board of Health has issued more than 92,000 permits for new installations, repairs and additions for these properties. 2.) Only local governments can regulate the number of systems in their communities. Also, only local governments can enact ordinances requiring maintenance of septic systems. Improvements can be attributed to new and less expensive technologies that essentially function as sewage treatment plants. They emit effluent clean enough that some states allow surface discharge. Georgia does not.
Continue to identify and respond to instances of septic system failure. Enforcement responses to failing septic systems are by complaint only. Home and business owners who don't have a complaint lodged against them can consult with Environmental Health about their failing systems and can pay for an onsite assessment for repair.	1980	Ongoing	

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Big Haynes Watershed Protection Plan	Rockdale County	Intergovernmental agreement by nine (9) local governments to protect Big Haynes Creek water supply watershed utilizing land use ordinances and best management practices. This includes: stream side and lakeside vegetative buffers, impervious surface setbacks, septic tank and drain field setbacks and stormwater protection measures or zoning ordinances that address landuse density.	Signed: Sept., 1995	In-progress/ Enforced	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal Coliform	Pet Waste, Hobby Farms, Wildlife, and Leaking Septic Tanks, Urban Runoff	2, 3, 7	This intergovernmental agreement is designed to preserve the water quality of this water supply watershed.

Measurable Milestones	Schedule		Comments
	Start	End	
Preservation of water quality from future development	Sept. 1995	Ongoing	The purpose of this plan is to achieve and maintain a high quality water supply source for the Big Haynes Creek Watershed.

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
NPDES Phase II MS4 Municipal Stormwater Permit	Rockdale County Water Resources, Rockdale County Department of Public Services and Engineering and the City of Conyers	Requires jurisdiction to have a comprehensive stormwater program, which includes public education and participation, illicit discharge detection and elimination, construction site runoff control, post construction runoff control, pollution prevention, permitting and reporting, and program implementation plans. Stream inspections will be a component of this program.	March 2003	Planning	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal Coliform	Illicit discharges, Animal Waste	2, 3, 4, 7	The goals of this program are designed to improve water quality conditions and/or prevent further degradation of water quality and biotic integrity in the impaired stream corridor.

Measurable Milestones	Schedule		Comments
	Start	End	
Refer to Annual Report for project effectiveness.	2004	Ongoing	Notification of Intent (NOI) is currently under review by GA EPD. Annual reporting will be based on the permit signing date.
Stream inspections to identify illicit discharges within the stream corridors listed in the 303(d) list	March 2003	Ongoing	Stream inspections will be conducted by walking stream corridors to detect illicit discharges from livestock farms, hog farms, or equestrian stables within the stream corridor that are 5 acres or larger. Additionally, further inspection of animal boarding facilities will be evaluated based on business license permits and by stream corridor inspections. An educational brochure / bill insert will be handed out to property owners.

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Ordinance Revisions	Rockdale County Department of Public Services and Engineering	This will include updating the comprehensive land use plan, coordinating a design competition to develop overlay districts, creating uniform development codes, and developing a GIS inventory of the county's stormwater control structures.	2002	In-progress	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal Coliform	Pet Waste, Urban Runoff	2, 3, 4, 7	This program should be effective in reducing stormwater pollution.

Measurable Milestones	Schedule		Comments
	Start	End	
Update Comprehensive Land Use Plan	2002	Feb. 2003	
Design competition to develop overlay districts		Summer 2003	
Create Uniform Development Code		Summer 2004	
GIS Inventory of Stormwater Control Structures	2002	Ongoing	
Keeping records of the number of citations issued for enforcement of land disturbing activities	2002	Ongoing	

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Erosion and Sediment Control Education	Rockdale County Department of Public Services and Engineering	Rockdale County ordinance requiring attendance by the building and development community along with county staff that engage in land disturbing activities at an 8 hr E&SC course on a bi-annual basis.	2000	Ongoing	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal Coliform	Urban Runoff	2, 3, 4, 7	By educating the development and construction community along with municipal staff about the proper use of onsite erosion and sedimentation control measures this program will help reduce nonpoint source pollution.

Measurable Milestones	Schedule		Comments
	Start	End	
Erosion and Sediment Control Education	2000	Ongoing	That includes structural and non-structural BMPs

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Georgia Erosion and Sediment Control Act	GA EPD and Rockdale County Department of Public Services and Engineering	Construction site erosion control standards and 25 foot stream buffer enforcement	1975	Enforced	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal Coliform	Urban Runoff	2, 3, 4, 7	By educating the development and construction community along with municipal staff about the proper use of onsite erosion and sedimentation control measures this program will help reduce nonpoint source pollution.

Measurable Milestones	Schedule		Comments
	Start	End	
Review and inspect E&S construction site control measures	Ongoing		

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
IAW O.C.G.A. 30-3-1	Rockdale County Health Department	Rules and regulations for on-site sewer management	1981	Enforced	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal Coliform	Leaking septic tanks	2, 3, 4, 7	This program should aid in the reduction of fecal coliform and limit nonpoint source pollution from failing septic tanks.

Measurable Milestones	Schedule		Comments
	Start	End	
Continue to identify and respond to instances of septic system failure. Enforcement responses to failing septic systems are by complaint only. Home and business owners who don't have a complaint lodged against them can consult with Environmental Health about their failing systems and can pay for an onsite assessment for repair.	1981	Ongoing	
Provide Public Education and Awareness materials that address failing septic tanks.	2003		This milestone will utilize a utility bill insert that provides citizens with information on how to proactively address maintenance issues.

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Phase I MS4 Municipal Stormwater Permit	DeKalb County	Under this permit, DeKalb County is required to have a comprehensive stormwater program, which includes public education and participation, illicit discharge detection and elimination, permitting and reporting, and program implementation.	09/1997	In-Progress	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC	Urban Runoff	6	This program is intended to improve water quality conditions and/or prevent further degradation of water quality and biotic integrity.

Measurable Milestones	Schedule		Comments
	Start	End	
Annual Reports submitted to EPD	1997	Ongoing	

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
South River Watershed Assessment and Management Plan	DeKalb County government	Assessment of water quality conditions, prioritization of areas for improvement, and plan that identifies measures for protection and restoration/retrofit.	2001	In-progress	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal Coliform	Urban runoff, animal wastes, septic tanks	6	Management Plan outlines measures for multiple departments to coordinate activities for stream water quality / habitat improvements, including identification and reduction of fecal coliform levels.

Measurable Milestones	Schedule		Comments
	Start	End	
Annual report with summary of monitoring data submitted to EPD	2001	Ongoing	This management measure could also control Total Suspended Solid (TSS) levels in the stream.
Septic Tank investigation program	2002	Ongoing	

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
DeKalb County Storm Water Ordinance	DeKalb County Roads & Drainage	Ordinance to address storm water runoff, nonpoint source pollution controls.	1998	In-progress	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
Fecal Coliform	Urban runoff, animal wastes	6	Increases inspection and enforcement activities for storm water control, nonpoint source pollution runoff from construction and industrial sites to the MS4 system.

Measurable Milestones	Schedule		Comments
	Start	End	
Inspections of Industrial / commercial sites for spill prevention and control	1994	Ongoing	
Outfall screenings for illicit connections	1994	Ongoing	
Implementation of Storm Water Management Design Manual to provide BMPs for development sites	2000	Ongoing	

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Land Development Ordinance (Chapter 14, DeKalb County Code)	DeKalb County government	Implementation of land development code revisions including revised subdivision requirements and Conservation Subdivision Overlay District, revised Tree Ordinance.	2002	Ongoing	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC	Urban runoff	6	Regulations modified to enhance nonpoint source pollution / runoff controls; increase stream buffer requirements; encourage inclusion of greenspace in future developments.

Measurable Milestones	Schedule		Comments
	Start	End	
Passage of ordinance modifications	2002	Ongoing	This management measure could also control TSS levels in the stream.
Implementation of conservation zoning	2003	Ongoing	
Increase level of site inspections for compliance with erosion and sediment control requirements	2003	Ongoing	

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Point Source Pollution Control	DeKalb County Water & Sewer	Capital Improvement Plan for upgrade of Pole Bridge Creek WPC Plant to regional facility with advanced treatment/removals, phasing out Snapfinger WPC Plant. Provide for future reuse of treated effluent and beneficial use of biosolids.	2002 - 2010	Planning	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC	Sanitary sewer system	6	New regional facility constructed to advanced treatment standards, including ozonation or UV disinfection for coliform control and elimination of chlorine risks.

Measurable Milestones	Schedule		Comments
	Start	End	
Projects initiated and/or completed for design and construction	2005	2010	This management measure could also control the following water quality parameters: TSS, DO, BOD, P, N.

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Sanitary Sewer Maintenance Program	DeKalb County Water & Sewer	Sanitary sewer system inventory and inspection (mapping, television inspections); infiltration & inflow identification and reduction (flow monitoring, smoke testing); sewer line rehabilitation (pipe bursting, relining, cleaning).	1996	Ongoing	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC	Sanitary sewer system	6	Identify potential leaky sewer lines and overflows, identify areas served primarily by septic tanks and assess potential for sewer tie-ins.

Measurable Milestones	Schedule		Comments
	Start	End	
Number of inspections completed;	1999	Ongoing	This program is the result of a Consent Order between DeKalb and EPD on previous SSOs. It is enforced by EPD's Permitting, Compliance and Enforcement Program.
Miles of sewer line mapped and cleaned	1996	Ongoing	

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
Restoration and Retrofit Programs	DeKalb County government	Utility line vegetation program using native prairie grasses to stabilize utility easements and enhance habitat, sheet flow filterability; and construction of hydrologic controls and stream restoration projects.	2001	Ongoing	Voluntary

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC	Urban runoff	6	Restoration of natural habitat along easement corridors, which typically includes stream buffer areas; reduction of storm water flows and related stream bank erosion; and restoration of stream banks for improved water quality.

Measurable Milestones	Schedule		Comments
	Start	End	
Number of projects or linear feet of prairie grass planted;	2001	Ongoing	This management measure could also control TSS levels in the stream.
Number of projects identified through feasibility studies, and then designed and constructed	2005	Ongoing	

Regulation/Ordinance or Management Measure	Responsible Government, Organization or Entity	Description	Enacted/ Projected Date	Status	Regulatory/ Voluntary
IAW O.C.G.A. 290-5-26	DeKalb County Board of Health.	Rules and regulations for installation and repair of on-site sewage management systems.	June 30, 1980	Enforced	Regulatory

Pollutant(s) Affected	Sources of Pollutant(s)	Impacted Waterbodies*	Anticipated or Past Effectiveness
FC	Septic Systems	6	This program ensures septic systems are installed and repaired in accordance with established procedures and specifications.

Measurable Milestones	Schedule		Comments
	Start	End	
Continue the process of reviewing the installation of septic systems as a part of the development review process	1980	Ongoing	
Continue to identify and respond to instances of septic system failure. Enforcement responses to failing septic systems are by complaint only. Home and business owners who don't have a complaint lodged against them can consult with Environmental Health about their failing systems and can pay for an onsite assessment for repair.	1980	Ongoing	

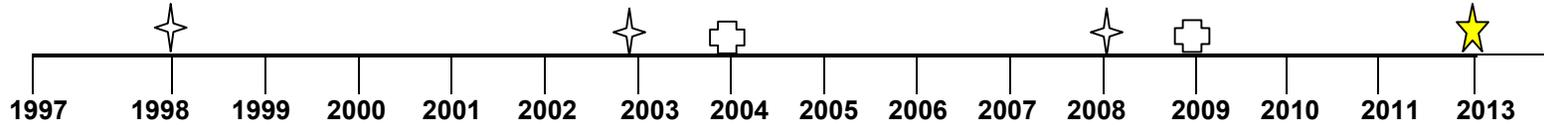
## POTENTIAL FUNDING SOURCES

The identification and discussion of dedicated funding is important in determining the economic feasibility of the above-mentioned management measures.

Funding Source	Responsible Authority	Status	Anticipated Funding Amount	Impacted Waterbodies*
Water & Sewer Enterprise Funds	DeKalb County Board of Commissioners	On-going	To Be Determined / Annual Budget	6
Storm Water Utility Fee	DeKalb County Board of Commissioners	Proposed	To Be Determined	6
Greenspace Program	DeKalb County Board of Commissioners	On-going	To Be Determined / Annual Budget	6
General Fund	DeKalb County Board of Commissioners	On-going	To Be Determined / Annual Budget	6
Rockdale County (rate funded)	Rockdale Water Resources	Ongoing	To Be Determined	2, 3, 4, 7
Rockdale County (general fund)	Rockdale Co. Public Services and Engineering	Ongoing	To Be Determined	2, 3, 4, 7
Rockdale County (bonds / grants)	Rockdale Water Resources	Planned	To Be Determined	2, 3, 4, 7
Stormwater Utility Fee	Rockdale Water Resources / PS&E	Under Discussion	To Be Determined	2, 3, 4, 7
Gwinnett County	Gwinnett County Board of Commissioners	On-going	To Be Determined	1, 5
319 Grants	Gwinnett County Board of Commissioners /EPD/EPA	On-going	To Be Determined	1, 5
General Fund	City of Snellville	On-going	To Be Determined	1, 5
General Fund	City of Loganville	On-going	To Be Determined	1
General Fund	City of Grayson	On-going	To Be Determined	1

## PROJECTED ATTAINMENT DATE

The projected date to attain and maintain water quality standards in this watershed is 10 years from acceptance of the TMDL Implementation Plan by EPD.



EPD Monitoring   
 Evaluate TMDL & Attainment Date   
 Project Attainment 

## MONITORING PLAN

The purpose of this monitoring plan is to determine the effectiveness of the target TMDL and the management measures being implemented to meet water quality standards. List of previous, current or planned/proposed sampling activities or other surveys. Monitoring data that placed stream on 303(d) list will be provided if requested.

Name Of Regulation / Ordinance Or Management Measure	Organization	Impacted Waterbodies*	Pollutants	Purpose/Description	Time Frame		Status (Previous, Current, Proposed)
					Start	End	
TMDL Evaluation and Monitoring for 305(b) and 303(d) lists	Georgia EPD	1, 2, 3, 5, 6, 7	FC	TMDL Evaluation and Monitoring for 305(b) and 303(d) lists for Georgia	2004	2005	Proposed
TMDL Evaluation / Monitoring	GA EPD, Water Protection Branch	4	pH	TMDL Evaluation / Monitoring data for Georgia's 305(b)/303(d) List	2004	2005	Proposed
Watershed Assessment Program	Rockdale Water Resources	4	pH	Watershed Assessment Program	Sept. 2002	Ongoing	Current
NPDES Phase II MS4 Program	Rockdale County Water Resources and Rockdale County Department of Public Services and Engineering	4	pH	NPDES Phase II MS4 Program (2003)	March 2003	Ongoing	Proposed
Septic Tank Investigation Program	DeKalb County Water & Sewer Division	6	FC	Septic Tank Investigation Program. A pilot test of this program was conducted during the 2001-2003 preliminary implementation phase of the watershed improvement plan (WIP). The full-scale program is planned for the rollout of the final WIP implementation in 2004.	2002	Ongoing	Previous / proposed

Name Of Regulation / Ordinance Or Management Measure	Organization	Impacted Waterbodies*	Pollutants	Purpose/Description	Time Frame		Status (Previous, Current, Proposed)
					Start	End	
Environmental Monitoring Program	DeKalb County Water & Sewer Division	6	FC	Environmental Monitoring Program for watershed management plan implementation. Other parameters sampled include: temp, TRC, DO, pH, flow, turbidity, BOD, NH3, TKN, TSS, NO2/3, P, Hardness, Cd, Cr, Cu, Pb, Ni, Ag, Zn.	2001	Ongoing	Current
NPDES MS4 Monitoring Program	DeKalb County Water & Sewer Division	6	FC	NPDES MS4 Monitoring Program, including FC monitoring, water quality trend detection, wet weather monitoring, and dry weather screening for illicit connections. Other parameters sampled include: COD, TSS, TDS, N, NH3, TKN, P, hardness, Cd, Cu, Pb, Zn.	1992	Ongoing	Current
Water Quality Monitoring Program for DeKalb County streams	DeKalb County Water & Sewer Division	6	FC	Water Quality Monitoring Program for DeKalb County streams. Other parameters sampled include: pH, DO, Temp, BOD, COD, P, NH3, NO2-NO3, TC, conductivity Cd, Cr, Cu, Pb, Ni, Zn.	1970	Ongoing	Current
Stream Surveys	DeKalb County Water & Sewer Division	6	FC	Stream Surveys - Quarterly stream walks to identify potential illicit discharges, areas of degradation, and other potential water quality problems.	2003	Ongoing	Proposed
Watershed Assessment Program	Rockdale Water Resources	2, 3, 7	FC	Watershed Assessment Program	Sept. 2002	Ongoing	Current
NPDES Phase II MS4 Program	Rockdale County Water Resources and Rockdale County Department of Public Services and Engineering	2, 3, 7	FC	NPDES Phase II MS4 Program (2003)	March 2003	Ongoing	Proposed
NPDES MS4 Program	Gwinnett County	1, 5	FC	NPDES MS4 Program – includes Fecal monitoring and Dry Weather Screening. MS4 sampling is completed in accordance with the ARC’s monitoring plan which was approved by EPD and that includes a QA/QC component.	9/1996	Ongoing	Current

Name Of Regulation / Ordinance Or Management Measure	Organization	Impacted Waterbodies*	Pollutants	Purpose/Description	Time Frame		Status (Previous, Current, Proposed)
					Start	End	
Fecal Coliform Monitoring Program	Gwinnett County	1, 5	FC	Fecal Coliform Monitoring Program. Monitoring under this program is completed in accordance with an EPD approved Sampling and Quality Assurance Plan.	6/2003		Proposed
NPDES Phase II Monitoring	City of Loganville	1	FC	NPDES Phase II Monitoring - Ongoing monitoring of effectiveness of NPDES Stormwater Implementation	2003	Ongoing	Planned

**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**

The US EPA has amended the TMDL document dated February 2002 for Boar Tusk Creek to correct the watershed information found in that document. The recent information updates the size and location of the impaired stream segment under the TMDL at a Glance section, Figure 1 – Boar Tusk Creek Watershed (Headwaters to Yellow River), and Table 1 – Land Use in the Boar Tusk Creek Watershed.

GA EPD reduced the size of the impaired Yellow River segment by removing the section from Hwy 124 to Hammock Creek off the 2002 Section 303(d) List based on 2001 samples provided by Gwinnett County from a monitoring station at Hwy 124. The samples produced data that indicated there are no water quality violations in the reach. The 2002 Section 303(d) listing of the remaining segment from Hammock Creek to Big Haynes Creek is based on EPD data from samples taken in 2001 at the Conyers Water Intake monitoring station near Milstead below Hammock Creek. These samples indicated there might still be a problem for fecal coliform and produced insufficient data to fully assess the segment for delisting purposes.

Further explanation of these situations can be obtained through Mary Gazaway (Environmental Outreach Coordinator, GA Department of Natural Resources, Environmental Protection Division, Water Protection Branch) at (404) 675-1745.

Watershed: Big Haynes Creek  
HUC10: #0307010305

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Date Submitted to EPD: July 31, 2003

The preparation of this report was financed in part through a grant from the U.S. Environmental Protection Agency under the provisions of Section 106 of the Federal Water Pollution Control Act, as amended.

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

**TOGETHER WE CAN MAKE A DIFFERENCE!**