

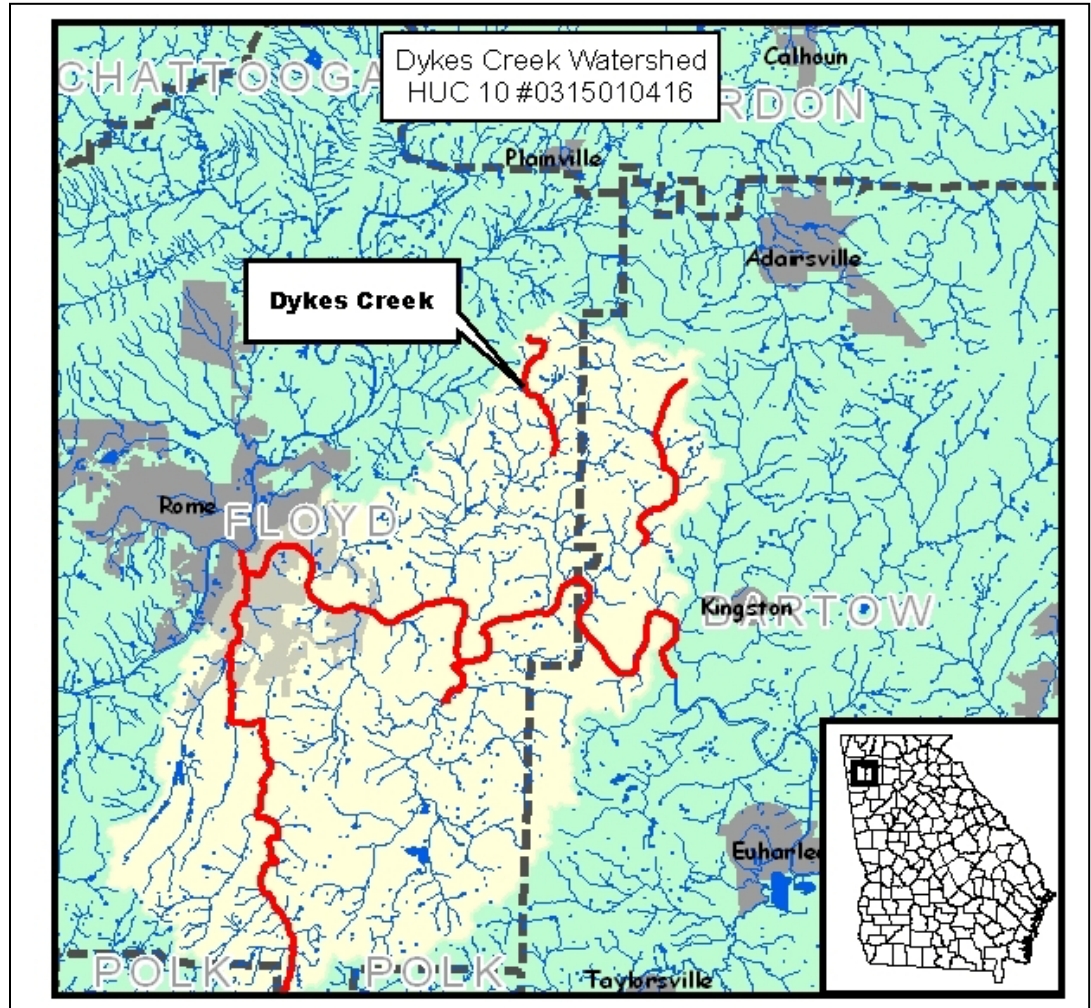
**STATE OF GEORGIA**  
**TIER 2 TMDL Implementation Plan (Revision # 01)**

Segment Name: Dykes Creek  
 Date: Sept. 30, 2009  
 River Basin: Coosa River Basin  
 Local Watershed Governments:  
     Floyd County Government  
     Bartow County Government

**I. INTRODUCTION**

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

This implementation plan addresses the general characteristics of the watershed, the sources of non-point pollution, stakeholders and public involvement, and education/outreach activities. In addition, the plan describes regulatory and voluntary practices/control actions (Best Management Practices, or BMPs) to reduce non-point sources of pollutants, milestone schedules to show development of the BMPs (*measurable milestones*), and a monitoring plan to determine BMP effectiveness.



**Table 1. IMPAIRED SEGMENTS IN THE HUC 10 WATERSHED**

IMPAIRED SEGMENT	IMPAIRED SEGMENT LOCATION	EXTENT (mi/ac)	CRITERIA VIOLATED	EVALUATION
Dykes Creek	Headwaters to Etowah River (Floyd County)	7	Fecal Coliform Bacteria	NS
Toms Creek	Headwaters to Etowah River (Bartow County)	7	Fecal Coliform Bacteria	NS

## II. GENERAL INFORMATION ABOUT THE HUC 10 WATERSHED AND THE INDIVIDUAL IMPAIRED SEGMENT

This section reviews HUC 10 watershed characteristics followed by pertinent information on the drainage delineation of the individual stream segment. New conditions or changes to information contained in the TMDL study documents should be in **bold** and underlined.

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**Dykes Creek** begins in Floyd Count as the headwaters flow out of the eastern side of Armstrong Mountain. The creek then flows to the south where it collects the drainage from the eastern sides of Armstrong and Ward Mountain. Dykes Creek continues south by south east where it flows through Halls Lake in the Morrison Campground area. Still flowing to the south Dykes Creek enters into the Etowah River. The Dykes Creek watershed drains an area of 10,944 acres. Trout are stocked in Dykes Creek four times a year.

Land Use: The primary use of land in the Dykes Creek watershed is forest at 65.9% with 7,214 acres. The second highest is agriculture at 22.4% with 2,460 acres. Other Grasses is the third highest in the land use category at 10% with 1091 acres. Open Water, Low and High Intensity Residential, High Intensity Commercial, Bare Rock, Woody Wetlands, and Emergent Herbaceous Wetlands contribute less than one percentage point each.

Dykes Creek is the Ridge and Valley physiographic region in Georgia. The ridges in this area are typically composed of chert and capped sandstone, while the valleys are usually limestone or shale. The thicker, more fertile soils typically form in the valleys from erosion of soil at higher elevations and the weathering of parent material. The weathering of sandstone and chert on ridges help form the acidic soils which maintain the forested areas of this region.

The current TMDL of the Dykes Creek stream segment indicates that the potential sources of fecal coliform contamination are from non-point sources. The possible non-point sources contributing to the fecal contamination are wildlife, agricultural, and urban development.

The importance of wildlife as a source of fecal coliform bacteria in streams varies considerably, depending on the animal species present in the watersheds. Based on information provided by the Wildlife Resources Division (WRD) of GA DNR, the animals that spend a large portion of their time in or around aquatic habitats are the most important wildlife sources of fecal coliform. Waterfowl, most notably ducks and geese, are considered to potentially be the greatest contributors of fecal coliform. This is because they are typically found on the water surface, often in large numbers, and deposit their feces directly into the water. Other potentially important animals regularly found around aquatic environments include raccoons, beavers, muskrats, and to a lesser extent, river otters and minks. Recently, rapidly expanding feral swine populations have become a significant presence in the floodplain areas of all the major rivers in Georgia. Population estimates of these animal species in Georgia are currently not available.

White-tailed deer populations are significant throughout the Coosa River Basin. Fecal coliform bacteria contributions from deer to water bodies are generally considered less significant than that of waterfowl, raccoons, and beavers. This is because a greater portion of their time is spent in terrestrial habitats. This also holds true for other terrestrial mammals such as squirrels and rabbits, and for terrestrial birds (GA WRD, 2002).

However, feces deposited on the land surface can result in the introduction of fecal coliform to streams during runoff events. It should be noted that between storm events, considerable decomposition of the fecal matter might occur, resulting in a decrease in the associated fecal coliform numbers.

Agricultural livestock are a potential source of fecal coliform to streams in the Coosa River Basin. The animals grazing on pastureland deposit their feces onto land surfaces, where it can be transported during storm events to nearby streams. Animal access to pastureland varies monthly, resulting in varying fecal coliform loading rates throughout the year. Beef cattle spend all of their time in pastures, while dairy cattle and hogs are periodically confined. In addition, agricultural livestock will often have direct access to streams that pass through their pastures, and can thus impact water quality in a more direct manner (USDA, 2002). The following table shows the estimated number of beef cattle, dairy cattle, goats, horse, swine, sheep, and chickens by category reported by county. The following tables provide the estimated amount of farm animals in Floyd for livestock and chicken.

**Livestock Population in Floyd County**

Beef Cows, Total Head	Beef Stockers	Dairy Cows	Horses Raised	Horses, Boarding/Breeding/ Training	Sheep, # of ewes	Goats, total nannies	Pork, Farrow to Finish	Pork, Feeder Pigs, Total Head
14,000	2,500	30	290	315	150	575	0	3,500

Sources: georgiastats.uga.edu (2008)

There is a significant presence of poultry operations in Floyd County, which can be a source of the fecal coliform pollution. The chart below lays out an approximate number of chickens in each county from all poultry operations, broken down by type of chicken. The numbers are an approximate number based on the exact number of houses in the county multiplied by the average capacity of the typical chicken house in the county.

**Floyd County Poultry Population, by type (Thousands)**

Breeder Pullet Unit	Broiler Chickens	Hatching Layers	Table Layers	Totals
24	3,480	20	0	3,524

Sources: georgiastats.uga.edu (2008)

Fecal coliform from urban areas are attributable to multiple sources, including: domestic animals, leaks and overflows from sanitary sewer systems, illicit discharges, leaking septic systems, runoff from improper disposal of waste materials, and leachate from both operational and closed landfills. Urban runoff can contain high concentrations of fecal coliform from domestic animals and urban wildlife. Fecal coliform bacteria enter streams by direct washoff from the land surface, or the runoff may be diverted to a storm water collection system and discharged through a discrete outlet structure. For large, medium, and small urban areas, the storm water outlets are regulated under MS4 permits. Phase I MS4 permits are issued for large urban areas with populations greater than 100,000. Phase II permits are issued for urbanized areas with a population of at least 50,000 and a density of 1,000 residents per acre. Both Floyd County and Rome City have MS4 permits; however Dykes Creek is not in an MS4. For smaller

urban areas, the storm water discharge outlets currently remain unregulated. In addition to urban animal sources of fecal coliform, there may be illicit connections to the storm sewer system. As part of the MS4 permitting program, municipalities are required to conduct dry-weather monitoring to identify and then eliminate these illicit discharges. Fecal coliform bacteria may also enter streams from leaky sewer pipes, or during storm events when combined sewer overflows discharge.

A portion of the fecal coliform contributions in the Coosa River Basin may be attributed to failure of septic systems and illicit discharges of raw sewage. The table below presents the number of septic systems in each county of the Coosa River Basin existing in 2001 and the number existing in 2006, based on the Georgia Department of Human Resources, Division of Public Health data. In addition, an estimate of the number of septic systems installed and repaired during the five year period from 2001 through 2006 is given. These data show that a substantial increase in the number of septic systems has occurred in some counties. Often, this is a reflection of population increases outpacing the expansion of sewage collection systems during this period. Hence, a large number of septic systems are installed to contain and treat the sanitary waste.

County	Existing Septic Systems (2001)	Existing Septic Systems (2006)	Number of Septic Systems Installed (2001 to 2006)	Number of Septic Systems Repaired (2001 to 2006)
Floyd	16,981	17,881	900	988

GAEPD study document Total Maximum Daily Load Evaluation for Twenty-Nine Stream Segments in the Coosa River Basin for Fecal Coliform (Jan. 2009)

Leachate from landfills may contain fecal coliform bacteria that may at some point discharge into surface waters. Sanitary (or municipal) landfills are the most likely to serve as a source of fecal coliform bacteria. These types of landfills receive household wastes, animal manure, offal, hatchery and poultry processing plant wastes, dead animals, and other types of wastes. Older sanitary landfills were not lined and most have been closed. Those that remain active and have not been lined operate as construction/demolition landfills. Currently active sanitary landfills are lined and have leachate collection systems. All landfills, excluding inert landfills, are now required to install environmental monitoring systems for groundwater and methane sampling. There are 109 known landfills in the Coosa River Basin. Of these, 19 are active landfills, 3 are in the process of being closed and 87 are inactive or closed.

Landfills within Floyd County				
Name	County	Permit No.	Type	Status
Cave Spring	Floyd		NA	Inactive
Cave Spring – Hwy 411	Floyd		NA	Inactive
Cave Spring – Perry Road	Floyd		NA	Inactive
City of Rome	Floyd	057-004D(SL)	Sanitary Landfill	Inactive
D.C. McCoy Landfill	Floyd		NA	Inactive
Floyd Co. – Rome Walker Mtn. Rd	Floyd	057-021D(C&D)	Construction and Demolition Landfill	Operating
Floyd Co. – Berryhill Rd.	Floyd	057-009D(SL)	Sanitary Landfill	Closed

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Inland Rome – Turner Bend Rd.	Floyd	057-017D(LI)	Industrial Landfill	Operating
Jack Morgan	Floyd		NA	Inactive
Potts Road	Floyd		NA	Inactive
Rome – Walker Mtn Rd. Site 2	Floyd	057-020D(MSWL)	Municipal Solid Waste Landfill	Operating
Rome – Walker Mtn Rd. PH 1, 2, & 3	Floyd	057-013D(SL)	Sanitary Landfill	Closed
Sarah Chandler Property – Disp Areas 1 & 3	Floyd	057-012D(L)(I)	NA	Inactive

GAEPD study document Total Maximum Daily Load Evaluation for Twenty-Nine Stream Segments in the Coosa River Basin for Fecal Coliform (Jan. 2009)

### Relevant Watershed Planning and Management Activities

#### Erosion and Sedimentation

Rome and Floyd County are Local Issuing Authorities for E & S permitting of land-disturbing activities which are required to submit an NOI under the NPDES General Permit for Construction Activity.

The 2008 Unified Land Development Code of Rome-Floyd County includes the following ordinances: Environmental codes relevant to water quality include Soil and Sedimentation Control section 6.13; Flood Damage Prevention section 6.14; Stormwater Management section 6.15; Tree Conservation section 6.18; and Protection of Natural Waters Section 6.19, which includes Watershed Protection, River Corridor Buffer, Wetlands Protection, and Groundwater Recharge Area Protection. This section also notes that river tributaries including Horseleg Creek, Johns Creek, Dykes Creek and Woodward Creek shall have a 40 foot greenway.

#### Stormwater

Floyd County has an NPDES-permitted Small Municipal Separate Storm Sewer System (MS4) and is subject to the Phase II MS4 Stormwater Rules. These extended Phase II permitting rules include six parameters that deal with water quality including 1. Public Education and Outreach; 2. Public Participation and Involvement; 3. Illicit Discharge Detection and Elimination; 4. Construction Site Runoff Control; 5. Post-Construction Runoff Control; 6. Pollution Prevention and Good Housekeeping.

Industrial Storm Water Discharge NPDES Permit is required for all manufacturers that discharge stormwater. Construct Storm Water Discharge NPDES Permit is required for land disturbing activities over one acre. This permit requires implementation of erosion, sedimentation and pollution control plan plus monitoring of discharge for compliance with Georgia's in-stream water quality standards.

### **Region-wide Watershed Assessments and Plans**

The Northwest Georgia Comprehensive Water Management Plan was prepared in October 2004 by the consulting firms MACTEC Engineering and Consulting, Inc. and Brown and Caldwell for the Northwest Georgia Regional Water Resources Partnership (NWGRWRP) and the U.S Army Corps of Engineers (COE). A Preliminary Water Supply Study was issued in January, 2008 by the same consulting firms for the NWGRWRP in order to identify existing water supplies, the projected long-term water supply needs for Northwest Georgia, and the potential new water supply sources to meet those needs. There is an ongoing study – Northwest Georgia Water Quality Improvement Study and Implementation Plan- conducted by these same firms for the NWGRWRP and the U.S. Army COE. This study has 15 study sites in Floyd County.

### **Environmental Planning Criteria**

The purpose of the environmental planning criteria is to offer standards that are used to protect an area's natural resource. Floyd County has adopted and enforces the applicable environmental criteria. The environmental criteria adopted in Floyd County are Water Supply Watersheds, Protection of Groundwater Recharge Areas, Wetlands Protection, and River Corridor Protection.

### **Developments of Regional Impact**

- The Northwest Georgia Regional Commission advises that compliance on the site to protect water quality is a necessity. Best Management Practices (BMPs) on this site should exceed the minimum requirements and attempt to consider all possible problems in order to adequately protect water quality in streams and drainage-ways/State waters.
- The Northwest Georgia Regional Commission recommends that the project design professionals meet with the Georgia Soil and Water Conservation Commission to review plans and assist in providing adequate erosion and sedimentation control measures, and storm water runoff quantity and quality control measures (Georgia Soil and Water Conservation Commission, Region 1 Office, 700 East 2<sup>nd</sup> Avenue, Suite J, Rome, Georgia 30161-3359, Telephone: 706-295-6131.

### **Georgia Forestry Commission Best Management Practices**

The Forestry Commission has implemented best management practices on its lands to reduce sedimentation and erosion from silviculture practices. The Georgia Forestry Commission also provides education, technical and financial assistance through cost-share programs to private

landowners especially in the Forestland Enhancement Program, a part of the 2002 Farm Bill. Ongoing Georgia Forestry Commission activities include the following programs.

- Federal Clean Water Act Section 404: GFC received referrals from EPA for compliance determinations in situations involving forestry. It requires normal ongoing agricultural and silvicultural practice to adhere to BMPs and 15 baseline provisions for road construction and maintenance in and across waters of the US including lakes, rivers, perennial and intermittent streams, wetlands, sloughs in order to qualify for the exemption from the permitting process.
- Georgia's Best Management Practices: A GFC program to inform landowners, foresters, timber buyers, loggers site preparation and reforestation contractors and others involved with silvicultural operations about commonsense, economical effective practices to minimize nonpoint source and thermal pollution. GFC encourages and monitors compliance and conducts a complaint resolution program.
- Georgia Forestry Commission Monthly BMP Assurance Examination: In an effort to document "reasonable assurance" that water quality will be proactively protected during regular ongoing silvicultural operations; the GFC will offer a monthly BMP assurance examination of active sites. All active of ongoing sites will be identified either through monthly air patrol flights, courthouse records, riding the roads, notification or by landowners. Sites located within watersheds of specific biota (sediment) impaired streams will be given a higher priority to identify and conduct examinations.
  - The BMP Assurance Examination can be given at random; however, the majority of these exams are given because of complaints sent to the GFC. When complaints are received the forester usually makes 4 or 5 visits to the property until it is retired properly. Typically, there is a large improvement in scores from the initial exam to the final exam. In Floyd County there is no BMP Assurance Examination data given from June 15, 2008 – June 15, 2009. However, during this time the overall exam score for north Georgia was 95.96%.
- Memo to the Field: Application of BMPs to mechanical silvicultural site preparation activities for the establishment of pine plantations in the Southeast (Silviculture). Although overseen by the EPA/ US Army Corps of Engineers, cases are normally referred to GFC to make the initial determination. It identifies certain bottomland hardwood wetlands that should be subject to permitting if converting to pine plantations.

### **Department of Natural Resources Best Management Practices**

The Department of Natural Resources, Wildlife Management Division provides outreach to landowners on prevention of soil erosion and sedimentation from land-disturbing activities contributing to habitat destruction, advises landowners of best management practices and habitat development for increased wildlife on their property, and encourages landowners to implement conservation practices on their lands through the NRCS.

### **2002 Farm Bill, US Department of Agriculture Natural Resources Conservation Service and Farm Service Agency**

The Farm Security and Rural Investment Act of 2002 (Farm Bill 2002) funded conservation practices for farmers and ranchers with a focus on environmental issues by making existing programs simpler as well as funding new programs. The 2002 Farm Bill enhances the long-term quality of

our environment and conservation of our natural resources. This bill provides several opportunities for receiving grants to improve water quality. These include the following programs administered by the US Department of Agriculture, Natural Resources Conservation Service and Farm Service Agency. Farmers in this area have applied for the EQIP Program in particular. EQIP is widely used for the area's poultry and cattle operations. Through this program or through the permitting process for AFO status operations, certain farmers are required to develop Soil and Erosion Control Plans for their farms. Farms are checked yearly to see that they have implemented those measures so that they remain in compliance for funding. EQIP programs are in use in this watershed including prescribed grazing, fencing, nutrient management, and animal waste storage structures.

- Environmental Quality Incentives Program (EQIP) is a voluntary program that provides technical and cost share assistance for protection of ground and surface water, erosion control, air quality, wildlife habitat, and plant health. It is a 50% cost share with possible additional incentive payments.
- The Conservation Reserve Program (CRP) provides technical assistance, rental payments and cost share funding to address specific natural resource concerns including: protection of ground and surface waters, soil erosion and wildlife habitat. Eligible practices include tree planting, grassed waterways, wildlife habitat buffers, and shallow water area for wildlife and filter strips. An annual rental payment is given for land taken out of production and 50% cost share for practice installation.
- Continuous Conservation Reserve Program (CCRP) is a voluntary program that helps agricultural producers safeguard environmentally sensitive land. Participants plant long-term, resource-conserving covers to improve the quality of water, control soil erosion, and enhance wildlife habitat. Rental payment is provided for the participant as well as up to 90% cost share.

### Local Outreach Groups

**Keep Rome Floyd Beautiful** is local group that hopes to achieve a cleaner more beautiful community through education and involvement of the local citizens. Two cleanup projects that this group annually hosts are "Renew Our Rivers" and "Rivers Alive". Citizens that attend this event help the overall water quality of local waterways by cleaning up litter. Another event is the "Polar Bear Paddle", in which participants pick up garbage while paddling down the Etowah River. Keep Rome Floyd Beautiful often works with local businesses to encourage and educate local citizens about the rivers and streams in our area through stream cleanups and outdoor events.

**Coosa River Basin Initiative** (CRBI) "is an environmental organization based in Rome, Georgia with the mission of informing and empowering citizens so that they may become involved in the process of creating a clean, healthy and economically viable Coosa River Basin." CRBI offers many different types of education and outreach to Floyd County. A few outreach programs involve going to local elementary schools and educating the students on non-point pollution. Summer camps are also held to educate local children on water quality.

## Dykes Creek

### III. CAUSES AND SOURCES OF SEGMENT IMPAIRMENT(S) LISTED IN TMDLS

Table 2. provides information contained in the current TMDL for the impaired water body. By definition, “wasteload allocations” (WLA) for municipal and industrial wastewater discharges and (WLA<sub>sw</sub>) for storm water outfalls are established in permitted areas, while “load allocations” (LA) are established for non-point sources of pollution. **Wasteload allocations are assigned by Georgia EPD during the NPDES permitting process and are not part of the TMDL implementation planning process, which deals solely with non-point sources of pollutants.**

**Table 2. WASTE LOAD AND LOAD ALLOCATIONS AND TMDLS FOR THE IMPAIRED SEGMENT**

STREAM SEGMENT NAME	LOCATION	CRITERIA VIOLATED	WLA	WLA <sub>sw</sub>	LA	TMDL
Dykes Creek	Headwaters to Etowah River (Floyd County)	Fecal Coliform	0	0	1.72E+12	1.91E+12

Table 3. contains information presented in the TMDL study that this implementation plan addresses.

**Table 3. POTENTIAL NON-POINT SOURCES OF IMPAIRMENT INDICATED IN THE TMDLS**

CRITERIA VIOLATED: FC	WQ STANDARD	SOURCES OF IMPAIRMENT	NEEDED % REDUCTION (FROM THE TMDL)
Fecal Coliform Bacteria	<b>1,000 per 100 ml (geometric mean November- April)</b> 200 per 100 ml (geometric mean May-October)	Wildlife	48
		Agricultural Livestock <ul style="list-style-type: none"> <li>• Animal grazing</li> <li>• Animal access to streams</li> </ul>	
		Urban Development <ul style="list-style-type: none"> <li>• Leaking sanitary sewer lines</li> <li>• Leaking septic systems</li> <li>• Land Application Systems</li> <li>• Landfills</li> <li>• Urban Runoff</li> <li>• Domestic Animals</li> </ul>	

#### IV. IDENTIFICATION AND RANKING OF POTENTIAL NON-POINT SOURCES OF IMPAIRMENT

This section identifies and describes **in order of importance**, as determined through this TMDL implementation planning process, the extent and relative contributions from historic as well as current potential non-point sources of pollutants to the water quality impairment.

Identification and ranking of potential sources or causes of impairment were performed through a visual survey of the watershed and involvement of a stakeholder group. The visual survey was conducted on May 23, 2009. Images of the stream and land use were recorded, as well as, possible sources of fecal coliform bacteria. During the visual survey the land use of the Dykes Creek watershed was confirmed.

During the visual survey it was noticed that the majority of this watershed is on septic. Also, there were many agricultural operations noticed, mainly beef cattle. Wildlife is also a source of fecal bacteria in this area as much of the watershed is forested and there were deer tracks noticed at several locations.

When discussing this stream at the stakeholder meeting a stakeholder that lives in this watershed noted that leaking septic systems are probably the main source of fecal contamination in Dykes Creek. It was also stated that there are several beef cattle operations on tributaries of Dykes Creek and cows often have direct access to the streams. The buffers in this area are often irregular and sometimes cut all the way to the bank. Straight piping of gray water could also be a problem in this area. Wildlife is also a contributor in this area.

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Table 4. offers a simple format to rank **in order of importance**, as determined through this TMDL implementation planning process, the extent and relative contribution to the water quality impairment from all the potential non-point sources of pollution identified in Section IV. A “rating scale” of 0.5 to 5 has been developed to rank the sources. The rating chart provides guidance for rating the estimated extent (Rating A) and portion of the contribution (Rating B) from each potential non-point source and cause:

<b>Rating A:</b>	<b>Rating B:</b>	
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Rating Chart to Estimate Geographic Extent of the Source or Cause in the Contributing Watershed	Rating Chart to Estimate Portion of Contribution from the Source to the Pollutant Load Causing the Impairment	Rating
None or negligible (approximately 0-5%)	None or negligible (approximately 0-5%)	0.5
Scattered or low (approximately 5-20%)	Scattered or low (approximately 5-20%)	1
Medium (approximately 20-50%)	Medium (approximately 20-50%)	3
Widespread or high (approximately 50% or more)	Widespread or high (approximately 50% or more)	5
Unknown	Unknown	UNK

**Table 4. EVALUATION OF POTENTIAL SOURCES OF STREAM SEGMENT IMPAIRMENT**

**APPLICABLE TO CRITERION 1: Fecal Coliform**

IMPAIRMENT SOURCES	ESTIMATED EXTENT OF CONTRIBUTION		ESTIMATED PORTION OF CONTRIBUTION		IMPACT RATING (A X B)
	Comments	Rating (A)	Comments	Rating (B)	
Urban Development <ul style="list-style-type: none"> <li>Leaking Septic Systems</li> <li>Urban Runoff</li> </ul>	Medium	3	Medium	3	9
Agricultural Livestock	Medium	3	Medium	3	9
Wildlife	Medium	3	Medium	3	9

**V. CURRENT AND ACTIVE MANAGEMENT MEASURES AND ACTIVITIES**

Table 5A. identifies significant current and active Best Management Practices (BMPs) that have been installed to address potential non-point sources of impairment listed in Section IV, Table 4., and provides ratings of each management measure’s estimated Load Reduction Potential (LRP) when applied to a specifically identified non-point source. The rating chart provides guidance for rating the BMP Load Reduction Potential applied to a specifically identified non-point source:

<b>BMP Load Reduction Potential Rating Chart</b> (Percent Removal of Pollutant by the BMP)	<b>Rating</b>
None or negligible (approximately 0-5%)	.5
Low to medium (approximately 5-25%)	1
Medium to High (approximately 25-75%)	3
High (approximately 75% or more)	5
Unknown	UNK

**Table 5A. CURRENT AND ACTIVE MANAGEMENT MEASURES AND ACTIVITIES**

**GENERAL AND SPECIFIC MEASURES APPLICABLE TO CRITERION 1: Fecal Coliform**

<b>BMPs (1)</b>	<b>RESPONSIBILITY (2)</b>	<b>DESCRIPTION OF MEASURES (3)</b>	<b>FUNDING &amp; RESOURCES (4)</b>	<b>IMPAIRMENT SOURCES (5)</b>	<b>DATE (6)</b>	<b>BMP LRP RATING (7)</b>
Georgia Growth Planning Act, Part 5	City of Rome/Floyd County Government	Coordinated Planning Program, managed by Georgia DCA, assigns local governments Environmental Planning Criteria (set by Georgia DNR) to include in local long-term comprehensive plans: <ul style="list-style-type: none"> <li>• Water Supply Watersheds</li> <li>• Groundwater</li> <li>• Wetlands</li> <li>• Protected Rivers</li> <li>• Protected Mountains</li> </ul> Program also requires local governments to identify Developments of Regional Impact (DRI) and develop plans to protect and manage Regional Impact Resources (RIR).	City of Rome/Floyd County Governments Impact Fees	Urban Development	1989	Effectiveness varies with the specific BMPs applied.
Georgia's Best Management Practices	Georgia Forestry Commission (matters involving enforcement)	GFC program to inform landowners, foresters, timber buyers, loggers site preparation and reforestation contractors and others involved with silvicultural operations about commonsense,	On private land the responsibility/cost for installing and maintaining BMPs would be on the	Silviculture Runoff	Ongoing	>75% when properly applied to site preparation and harvesting activities.

	are generally referred to GA EPD)	economical effective practices to minimize nonpoint source and thermal pollution. GFC encourages and monitors compliance and conducts a complaint resolution program.	landowner, or the timber harvester when a company is logging on someone's land.			
Georgia Forestry Commission Monthly BMP Assurance Examination	Georgia Forestry Commission (matters involving enforcement are generally referred to GA EPD	In an effort to document "reasonable assurance" that water quality will be proactively protected during regular ongoing silvicultural operations, the GCF will offer a monthly BMP assurance examination of active sites. All active of ongoing sites will be identified either through monthly air patrol flights, courthouse records, riding the roads, notification or by landowners. Sites located within watersheds of specific biota (sediment) impaired streams will be given a higher priority to identify and conduct examinations.	Federal and State	Silviculture Runoff	Ongoing	5
Phase II NPDES Storm Water Permit for Small MS4	Georgia DNR & EPD, City of Rome/Floyd County	Requires local jurisdictions to develop a comprehensive Storm Water Management Program (SWMP) to include 1. Public Education and Outreach; 2. Public Participation and Involvement; 3. Illicit Discharge Detection and Elimination; 4. Construction Site Storm Water Runoff Control; 5. Post-Construction Storm Water Management in New Development and Redevelopment; 6. Pollution Prevention and Good Housekeeping related to municipal operations, reporting, monitoring	Floyd County, City of Rome	Urban Development	Updated 2004	5

		and program implementation.				
Industrial Storm Water Discharge NPDES Permit	Georgia DNR/EPD	General storm water discharge permit for manufacturing facilities; mining, oil & gas operations; hazardous waste treatment; storage or disposal facilities; recycling centers; steam electric power generating facilities; transportation facilities; domestic sewage or sewage sludge treatment. Requires implementation of Storm Water Pollution Prevention Plan. May require storm water monitoring program targeting discharges into/near 303(d) listed waters.	State	Urban Development	UNK	5
Construction Storm Water Discharge NPDES Permit	Georgia DNR/EPD	General storm water discharge permit for stand-alone construction sites; infrastructure projects; and common developments. Requires implementation of Erosion, Sedimentation and Pollution Control Plan plus monitoring of discharge for compliance with Georgia's in-stream water quality standards.	State	Urban Development	UNK	5
National Pollution Discharge Elimination System (NPDES) Permit Regulations for CAFOs over 1,000 animal units.	U.S. Environmental Protection Agency & GA Environmental Protection Division	U.S. Environmental Protection Agency and GA Environmental Protection Division	Federal and State	Agriculture	UNK	5
Erosion and Sedimentation Control Training and	City of Rome- Floyd County,	House Bill 285 requires state certification in Erosion and Sedimentation Control for anyone	Georgia Soil and Water Conservation	Urban Development	2007	5

<p>Certification, Amended 2007</p>	<p>Georgia Soil and Water Conservation Commission, GA EPD, Rolling Hills RC&amp;D</p>	<p>involved in the following activities: land development, design, review, permitting, construction, monitoring, inspection, or any land-disturbing activity in Georgia (Georgia Soil and Water Conservation Commission, 2005). The GSWCC also has updated requirements for E&amp;SC plans to be submitted with each project. Three levels of certification are offered through the Rolling Hills Regional Conservation and Development Council (RC &amp; D) for City of Rome- Floyd County.</p>	<p>Commission, GA EPD</p>			
<p>Georgia Erosion and Sedimentation Control Act, Construction Permit, 2003 Amendment</p>	<p>City of Rome- Floyd County, Georgia DNR/ EPD, Georgia Soil and Water Conservation Commission</p>	<p>City of Rome, Floyd County certified as Local Issuing Authority for land-disturbing activities. Requires Erosion and Sedimentation Control Plan incorporating best management practices plus "Qualified Personnel" Training and Certification Program adopted from Georgia Soil and Water Conservation Commission. Certification of on-site "Qualified Personnel" to ensure proper design, construction, and maintenance of standard E &amp; S control measures and storm water management practices</p>	<p>City of Rome-Floyd County</p>	<p>Urban Development</p>	<p>2003</p>	<p>5</p>
<p>Sanitary Sewer Maintenance Program</p>	<p>City of Rome- Floyd County</p>	<p>Sanitary Sewer system inventory and inspection (mapping, television inspections); infiltration and inflow identification and reduction (flow monitoring, smoke testing); sewer line rehabilitation</p>	<p>City of Rome-Floyd County</p>	<p>Urban Development</p>	<p>Ongoing</p>	<p>UNK</p>

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		(pipe bursting, relining, cleaning) and manhole rehabilitation.				
Regulation of On-Site Sewage Management Systems, IAW O.C.G.A. 290-5-26	Georgia DHR, Floyd County Board of Health	Rules and regulations for installation and repair of on-site sewage management systems.	State, Floyd County Board of Health	Urban Development	Ongoing	Effectiveness will vary with the specific application and must be individually determined.
Environmental Quality Incentives Program (EQIP)	Natural Resources Conservation Services	<p>Voluntary program that provides technical and cost share assistance for protection of ground and surface water, erosion control, air quality, wildlife habitat, and plant health.</p> <p style="text-align: center;"><u>Cattle</u></p> <ul style="list-style-type: none"> <li>• Fencing</li> <li>• Water Troughs</li> <li>• Pasture Overseeding</li> <li>• Cross fencing which promotes rotational grazing</li> </ul> <p style="text-align: center;"><u>Poultry</u></p> <ul style="list-style-type: none"> <li>• Stackhouses</li> <li>• Composting</li> <li>• Nutrient Management Plans</li> </ul>	Federal (Farm Bill 2002) 50% cost share with possible additional incentive payments	Agriculture	Yearly	Effectiveness varies with the specific BMPs applied.
Conservation Reserve Program (CRP)	Natural Resources Conservation Services / USDA Farm Services	Provides technical assistance, rental payments and cost share funding to address specific natural resource concerns including: protection of ground and surface waters, soil erosion and wildlife	Federal Annual rental payment for land taken out of production and 50% cost share for	Agriculture	Yearly	Effectiveness varies with the specific BMPs applied.

	Agency	<p>habitat. Eligible practices include tree planting, grassed waterways, wildlife habitat buffers, and shallow water area for wildlife and filter strips.</p> <ul style="list-style-type: none"> <li>• Fencing</li> <li>• Alternative Water Sources</li> <li>• Cross fencing</li> </ul>	practice installation.			
Continuous Conservation Reserve Program (CCRP)	Natural Resources Conservation Service	Conservation cost-share for best management practices such as fencing livestock out of streams; provides up to a 90-10% cost-share	Federal Annual rental payment for land taken out of production and 50% cost share for practice installation.	Agriculture	Yearly	Effectiveness varies with the specific BMPs applied.

Work Sheet for Table 5B. is designed to evaluate the capacity of existing or installed BMPs described in Table 5A. that have been implemented to reduce pollutant loadings from significant non-point sources identified in Table 4. Apply this work sheet as a local guide to evaluate BMPs in achieving water quality goals, establishing priorities for grant or loan programs, and identifying priorities for local watershed assessments and management plans.

**Work Sheet for Table 5B. EVALUATION OF CURRENT AND ACTIVE MANAGEMENT MEASURES AND ACTIVITIES**

**APPLICABLE TO CRITERION 1: Fecal Coliform**

<b>IMPAIRMENT SOURCES (1) (From Table 4)</b>	<b>IMPACT RATING (2) (From Table 4)</b>	<b>APPLICABLE BMPs (3) (From Table 5A)</b>	<b>EVALUATION SUMMARY (4)</b>	<b>ADDITIONAL INFORMATION / ACTIONS NEEDED (5)</b>
--	---	--	-----------------------------------	--

Urban Development	9		
Agriculture	9	<ul style="list-style-type: none"> <li>• Fencing</li> <li>• Water Troughs</li> <li>• Pasture Overseeding</li> <li>• Cross Fencing</li> <li>• Stack Houses</li> <li>• Composting</li> <li>• Nutrient Management Plans</li> </ul>	
Wildlife	9		

Table 5B. identifies new management measures that could improve or supplement current Load Reduction Potential (LRP) ratings or enhancements to existing BMPs that have been judged inadequate for achieving the load reductions. Evaluations in the Work Sheet for Table 5B. have determined that additional or enhanced management measures are necessary to more effectively reduce pollutant loads from the most likely non-point sources of impairment. The rating chart provides guidance for rating the Load Reduction Potential (LRP) of a BMP applied to a specifically identified non-point source:

<b>New or Enhanced BMP Load Reduction Potential Rating Chart (Percent Removal of Pollutant by the BMP)</b>	<b>Rating</b>
None or negligible (approximately 0-5%)	.5
Low to medium (approximately 5-25%)	1
Medium to High (approximately 25-75%)	3
High (approximately 75% or more)	5
Unknown	UNK

**Table 5B. RECOMMENDED NEW MANAGEMENT MEASURES AND ACTIVITIES**

**APPLICABLE TO CRITERION 1: Fecal Coliform**

NEW BMPs (1)	RESPONSIBILITY (2)	DESCRIPTION (Identify whether new or enhanced) (3)	FUNDING & RESOURCES (4)	IMPAIRMENT SOURCES (5)	TARGET DATE (6)	NEW BMP LRP RATING (7)

## VI. MONITORING PLAN

This section describes parameters to be monitored, status, whether monitoring is required for watershed assessments or storm water permits, and the intended purpose. **Submittal of a Sampling Quality Assurance Plan (SQAP) for Georgia EPD approval is mandatory if monitoring data is to be qualified to support listing decisions.**

Water quality data used to evaluate the criteria violated are less than five years old? Yes [X] No [ ].

**Table 6. MONITORING PLAN**

### APPLICABLE TO CRITERION 1: Fecal Coliform

PARAMETER (S) TO BE MONITORED (1)	RESPONSIBLE ENTITY (2)	STATUS (CURRENT, PROPOSED, OR RECOMMENDED) (3)	TIME FRAME (4)		PURPOSE (If for listing assessment, date of SQAP submission) (5)
			START	END	

**VII. PLANNED OUTREACH FOR IMPLEMENTATION**

Table 7. lists and describes local outreach activities that will be conducted to support this implementation plan or to help improve water quality in the segment watershed.

**Table 7. PLANNED OUTREACH FOR IMPLEMENTATION**

**APPLICABLE TO CRITERION 1: Fecal Coliform**

RESPONSIBILITY (1)	DESCRIPTION (2)	AUDIENCE (3)	START OR COMPLETION DATE (4)
Keep Rome Floyd Beautiful	"Renew Our Rivers" is an annual river cleanup on Brushy Branch in Coosa. Over 4,200 lbs. of trash was removed in 2008.	Local Citizens	Spring/Yearly
Keep Rome Floyd Beautiful	"Rivers Alive" is an annual river cleanup around Floyd County. Over 10,000 lbs. of trash was collected in 2008.	Local Citizens	October/Yearly
Keep Rome Floyd Beautiful	"Polar Bear Paddle" is an annual event where participants collect litter along the trip	Local Citizens	January/Yearly
CRBI	Presentations are given every Tuesday throughout the summer to approximately 100 YMCA children.	Local Children/Adults	Tuesdays/Summer
CRBI	Summer camps are held for children from the Boys/Girls Club.	Local Children	June-July 2009
CRBI	Perform workshops for teachers so that they can educate students on water quality.	Local Teachers	Yearly
CRBI	"First Fridays" CRBI sells food at local events	Local Citizens	First Friday/Monthly

	every first Friday of the month. This provides a good chance for them to spread the word about activities that the organization is doing.		
CRBI	Rain Barrel Program helps to install rain barrels in West Rome.	Local Citizens	July 2009
CRBI	Presentations concerning non point pollution are given to elementary school students at local schools.	Local Schools	Throughout Year
CRBI	Stream cleanups are performed on many streams in Floyd County throughout the year.	Local Citizens	Throughout Year
Floyd County Environmental Health Department	Provide packets of information containing do's and don'ts for septic system maintenance as well as a 9 minute DVD dealing with septic system maintenance.	Packets of information are issued for every permit issued as well as every repair permit issued. Information is also given to people concerned with this issue.	Ongoing

### VIII. MILESTONES AND BENCHMARKS OF PROGRESS FOR BEST MANAGEMENT PRACTICES (BMPs) AND OUTREACH

Table 8. shows what milestones and benchmarks have been developed to validate the progress of local best management measures identified in Tables 5A., 5B., and other sections of this plan in reducing pollutant loads from identified non-point sources of impairment.

**Table 8. MILESTONES OF PROGRESS**

BMP (1)	MILESTONE / BENCHMARK (2)	RESPONSIBLE ORGANIZATION (3)	METHOD / TIMELINE (4)	BMP STATUS (5)	
				INSTALLED TABLE 5A.	PROPOSED TABLE 5B.
Fencing		NRCS,USDA, and contracted farmer		x	
Water Troughs		NRCS,USDA, and contracted farmer		x	
Pasture Overseeding		NRCS,USDA, and contracted farmer		x	
Cross Fencing		NRCS,USDA, and contracted farmer		x	

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Stackhouses		NRCS,USDA, and contracted farmer		x
Composting		NRCS,USDA, and contracted farmer		x
Nutrient Management Plans		NRCS,USDA, and contracted farmer		x
Outreach/Education	Hoping to educate 2,500 children in 2009.	CRBI		x
“Renew Our Rivers”		Keep Rome Floyd Beautiful		x
“Rivers Alive”		Keep Rome Floyd Beautiful		x
“Polar Bear Paddle”		Keep Rome Floyd Beautiful		x
Presentations given to around 100 YMCA children every Tuesday throughout the summer.		CRBI		x
Summer camps are held for children from the Boys/Girls Club.		CRBI		x
Perform workshops for teachers so that they can educate students on water quality.		CRBI		x
“First Fridays”		CRBI		x
Rain Barrel Program		CRBI		x
Presentations concerning non point pollution are given to elementary school students at local schools.		CRBI		x
Stream cleanups are performed on many streams in Floyd County throughout the year.		CRBI		x
Septic tank education and outreach		Floyd County Environmental Health		x

		Department		

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## IX. STAKEHOLDERS

This section describes outreach activities engaging local stakeholders in the TMDL implementation plan preparation process, including the number of attendees, meeting dates, and major findings and recommendations.

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April 1, 2009 Initial TMDL Planning Meeting held at the Northwest Georgia Regional Commission The mailing list for the first meeting went to out to local government officials in cities and counties that had impaired streams in their watershed. For the initial meeting 62 people were emailed and 24 attended. Chris Falkner, Environmental Outreach Coordinator from the Environmental Protection Department gave a PowerPoint presentation that explained the TMDL process and how they are developed, as well as a list of the streams that are currently on the 303 (d) list. At the end of the meeting it was determined that the people in attendance compile a list of people that they would like to act as stakeholders for the impaired streams in their particular watershed.

June 9, 2009 Stakeholder Meeting concerning impaired streams in Floyd County (15 attendees) The meeting began with a PowerPoint presentation that described the TMDL process and the contractor's responsibilities under this contract, as well as the timeline for the TMDL process. Cindy Haygood of the Rolling Hills RC & D gave a presentation describing some of the programs that the RC & D is involved in. Mike Pitts of the Floyd County Health Department gave a presentation about on-site sewage management. One stakeholder lives in the Dykes Creek watershed and provided most of the information about possible sources of impairment. It was mentioned that there are old bauxite mines in the area which have had an effect on the buffers in the area. There is more sediment in the Dykes Creek watershed than in past years despite the fact that Halls Lake tends to trap sediment. On smaller tributaries that lead to Dykes Creek it was mentioned that there are many cattle operations that allow cows to have direct access to the creeks. It was also noted that the buffers in this area are small and often cut all the way to the bank. It was also mentioned that there aren't many poultry operations in this particular part of the county. It was stated that the majority of this area is on septic and many of the stakeholders believe that this is the primary source of fecal coliform contamination. Some problems with straight piping of gray water in this watershed may exist. Wildlife is also a significant source of fecal coliform in this area.

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Following is a list of advisory committee or watershed group members who participated in this TMDL implementation planning process.

**Table 9. STAKEHOLDER ADVISORY GROUP MEMBERS**

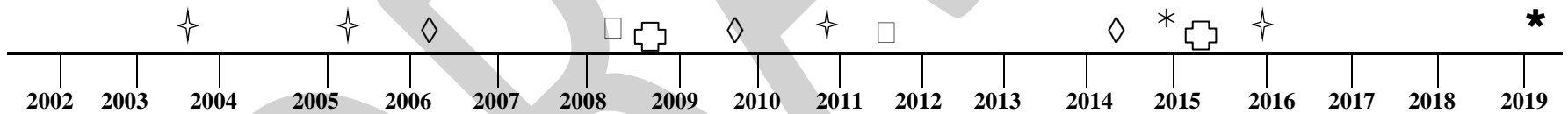
NAME/ORG	ADDRESS	CITY	STATE	ZIP	PHONE	E-MAIL
Mike Pitts/Floyd County Health Dept.	16 E 12 <sup>th</sup> St.	Rome	GA	30165	(706) 295-6316	<a href="mailto:wmpitts@dnr.state.ga.us">wmpitts@dnr.state.ga.us</a>
Sheri Teems/NRCS	1401 Dean St. Suite 1	Rome	GA	30161	(706) 291-5651	<a href="mailto:Sheri.teems@ga.usda.gov">Sheri.teems@ga.usda.gov</a>
Keith Mickler/UGA Coop Ext	12 E 4 <sup>th</sup> Ave Suite 107	Rome	GA	30161	(706) 295-6210	<a href="mailto:mickler@uga.edu">mickler@uga.edu</a>
Bill Davin/Berry College	2277 Martha Berry	Mt. Berry	GA	30149	(706) 290-2663	<a href="mailto:bdavin@berry.edu">bdavin@berry.edu</a>
Eric Lindberg/Rome-Floyd Co.	PO Box 1433	Rome	GA	30162	(706) 236-4674	<a href="mailto:elindberg@rome.ga.us">elindberg@rome.ga.us</a>
Ed Watters/Watters & Associates Landscape	134 Silver Ave.	Rome	GA	30161	(706) 234-5482	<a href="mailto:ed@watters.landscape.com">ed@watters.landscape.com</a>
Bill Tharp/Oglethorpe Power Rocky Mountain Hydroelectric Plant	4050 Big Texas Valley Rd.	Rome	GA	30165	(706) 290-5402	<a href="mailto:Bill.tharp@opc.com">Bill.tharp@opc.com</a>
Cindy Haygood/Rolling Hills RC&D	512 Main St	Cedartown	GA	30125	(770) 749-0444	<a href="mailto:Cindy.haygood@ga.usda.gov">Cindy.haygood@ga.usda.gov</a>
John Boyd/Utilities Manager Floyd County					(706) 233-0062	<a href="mailto:boydj@floydcountyga.org">boydj@floydcountyga.org</a>
Troy Atkins					(706) 291-5244	<a href="mailto:atkinst@floydcountyga.org">atkinst@floydcountyga.org</a>
Mark Knauss/Georgia Highlands Bio. Professor	3175 Cedartown Hwy., SE	Rome	GA	30161	(706) 368-7535	<a href="mailto:mknauss@highlands.edu">mknauss@highlands.edu</a>
Joe Cook/CRBI	408 Broad Street	Rome	GA	30161	(706) 2332-2724	<a href="mailto:jcook@coosa.org">jcook@coosa.org</a>
Adam Hammond/DNR Johns Mountain WMA					(706) 295-6041	<a href="mailto:Adam.hammond@dnr.state.ga.us">Adam.hammond@dnr.state.ga.us</a>
Brent Womack/DNR Johns Mountain WMA					(706) 295-6041	<a href="mailto:Brent.womack@dnr.state.ga.us">Brent.womack@dnr.state.ga.us</a>
Chris Faulkner/Environmental Outreach Coordinator	4220 International Parkway, Suite 101	Atlanta	GA	30354	(404) 675-1654	<a href="mailto:Chris_Faulkner@dnr.state.ga.us">Chris_Faulkner@dnr.state.ga.us</a>

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Ted Mikalsen/ Acting TMDL manager, EPD	4220 International Parkway, Suite 101	Atlanta	GA	30354	(404) 362-6538	
Ken Magnusson/Advanced Plumbing & Septic Service	1 Buck Trail 41 Vail Pkwy.	Rome	GA	30165	(706) 234-5259	<a href="mailto:ken@advancedplumbinginc.com">ken@advancedplumbinginc.com</a>
Doug Cabe/Limestone Valley RC&D	125 Red Bud Rd. NE, Suite 7	Calhoun	GA	30701	(706) 625-7044	<a href="mailto:Doug.cabe@usda.gov">Doug.cabe@usda.gov</a>
Nathan "Todd" Hice	1401 DEAN ST STE I	Rome	GA	30161	(706) 291-5654 ex.2	<a href="mailto:nathan.hice@ga.usda.gov">nathan.hice@ga.usda.gov</a>
Ozelle Edwards/Dykes Creek homeowner	453 Fred Kelly Rd.	Rome	GA	30161	(706) 291-4310	
Charles Logan	914 Thomas Rd.	Trion	GA	30753	(706) 734-3593	
William C. Otwell	758 NW Holland Rd.	Rome	GA	30165	(706)232-6305	
David Clay	#31 Pleasant Valley Rd. South	Silver Creek	GA	30173	(706) 234-5983	
Fred Kerce	142 Wilshire Rd	Rome	GA	30161	(706) 252-6040	
Jarrell Cagle	462 Reynolds Bend Dr. SE	Rome	GA	30161	(706) 291-8651	<a href="mailto:Jarrellcagle@bellsouth.net">Jarrellcagle@bellsouth.net</a>
Rebekah Wright Skelton	10 Burton Rd. NE	Rome	GA	30161	(706) 295-8651	
John Leslie	1045 F. Hatchery Rd.	Summerville	GA	30247	(706) 857-4523	
Wayne Hurley	20 Trixie Ln.	Summerville	GA	30747	(706) 857-2707	
Karen Smith	13 Ridgewood Rd.	Rome	GA	30165	(706) 235-5232	<a href="mailto:Smika13@comcast.net">Smika13@comcast.net</a>

## PROJECTED IMPLEMENTATION TIMELINE

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



- ✦ Projected EPD Basin Group Monitoring
- New TMDLs Completed
- ◇ Tier 2 TMDL Implementation Plan Received by EPD
- ⊕ Evaluation of Implementation Plan / Water Quality Improvement
- \* Projected Implementation Timeline for Plans Prepared in 2006
- \* Projected Implementation Timeline for Plans Prepared in 2009

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.

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Date Submitted to EPD:	<u>09/30/09</u>	Revision:01	

**APPENDIX A.**  
**OUTREACH ATTENDANCE**

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

NAME/ORGANIZATION	ADDRESS	CITY	STATE	ZIP	PHONE	E-MAIL
Mike Pitts/Floyd County Health Dept.	16 E 12 <sup>th</sup> St.	Rome	GA	30165	(706) 295-6316	<a href="mailto:wmpitts@dhr.state.ga.us">wmpitts@dhr.state.ga.us</a>
Sheri Teems/NRCS	1401 Dean St. Suite 1	Rome	GA	30161	(706) 291-5651	<a href="mailto:Sheri.teems@ga.usda.gov">Sheri.teems@ga.usda.gov</a>
Keith Mickler/UGA Coop Ext	12 E 4 <sup>th</sup> Ave Suite 107	Rome	GA	30161	(706) 295-6210	<a href="mailto:mickler@uga.edu">mickler@uga.edu</a>
Bill Davin/Berry College	2277 Martha Berry	Mt. Berry	GA	30149	(706) 290-2663	<a href="mailto:bdavin@berry.edu">bdavin@berry.edu</a>
Eric Lindberg/Rome-Floyd Co.	PO Box 1433	Rome	GA	30162	(706) 236-4674	<a href="mailto:elindberg@rome.ga.us">elindberg@rome.ga.us</a>
Ed Watters/Watters & Associates Landscape	134 Silver Ave.	Rome	GA	30161	(706) 234-5482	<a href="mailto:ed@watters.landscape.com">ed@watters.landscape.com</a>
Bill Tharp/Oglethorpe Power Rocky Mountain Hydroelectric Plant	4050 Big Texas Valley Rd.	Rome	GA	30165	(706) 290-5402	<a href="mailto:Bill.tharp@opc.com">Bill.tharp@opc.com</a>
Cindy Haygood/Rolling Hills RC&D	512 Main St	Cedartown	GA	30125	(770) 749-0444	<a href="mailto:Cindy.haygood@ga.usda.gov">Cindy.haygood@ga.usda.gov</a>
John Boyd/Utilities Manager Floyd County					(706) 233-0062	<a href="mailto:boydj@floydcountyga.org">boydj@floydcountyga.org</a>
Troy Atkins					(706) 291-5244	<a href="mailto:atkinst@floydcountyga.org">atkinst@floydcountyga.org</a>
Mark Knauss/Georgia Highlands Bio. Professor	3175 Cedartown Hwy., SE	Rome	GA	30161	(706) 368-7535	<a href="mailto:mknauss@highlands.edu">mknauss@highlands.edu</a>
Joe Cook/CRBI	408 Broad Street	Rome	GA	30161	(706) 2332-2724	<a href="mailto:jcook@coosa.org">jcook@coosa.org</a>
Adam Hammond/DNR Johns Mountain WMA					(706) 295-6041	<a href="mailto:Adam.hammond@dnr.state.ga.us">Adam.hammond@dnr.state.ga.us</a>
Brent Womack/DNR					(706) 295-	<a href="mailto:Brent.womack@dnr.state.ga.us">Brent.womack@dnr.state.ga.us</a>

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Johns Mountain WMA					6041	
Chris Faulkner/Environmental Outreach Coordinator	4220 International Parkway, Suite 101	Atlanta	GA	30354	(404) 675-1654	<a href="mailto:Chris.Faulkner@dnr.state.ga.us">Chris.Faulkner@dnr.state.ga.us</a>
Ted Mikalsen/ Acting TMDL manager, EPD	4220 International Parkway, Suite 101	Atlanta	GA	30354	(404) 362-6538	
Ken Magnusson/Advanced Plumbing & Septic Service	1 Buck Trail 41 Vail Pkwy.	Rome	GA	30165	(706) 234-5259	<a href="mailto:ken@advancedplumbinginc.com">ken@advancedplumbinginc.com</a>
Doug Cabe/Limestone Valley RC&D	125 Red Bud Rd. NE, Suite 7	Calhoun	GA	30701	(706) 625-7044	<a href="mailto:Doug.cabe@usda.gov">Doug.cabe@usda.gov</a>
Nathan "Todd" Hice	1401 DEAN ST STE I	Rome	GA	30161	(706) 291-5654 ex.2	<a href="mailto:nathan.hice@ga.usda.gov">nathan.hice@ga.usda.gov</a>
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Charles Logan	914 Thomas Rd.	Trion	GA	30753	(706) 734-3593	
William C. Otwell	758 NW Holland Rd.	Rome	GA	30165	(706)232-6305	
David Clay	#31 Pleasant Valley Rd. South	Silver Creek	GA	30173	(706) 234-5983	
Fred Kerce	142 Wilshire Rd	Rome	GA	30161	(706) 252-6040	
Jarrell Cagle	462 Reynolds Bend Dr. SE	Rome	GA	30161	(706) 291-8651	<a href="mailto:Jarrellcagle@bellsouth.net">Jarrellcagle@bellsouth.net</a>
Rebekah Wright Skelton	10 Burton Rd. NE	Rome	GA	30161	(706) 295-8651	
John Leslie	1045 F. Hatchery Rd.	Summerville	GA	30247	(706) 857-4523	
Wayne Hurley	20 Trixie Ln.	Summerville	GA	30747	(706) 857-2707	
Karen Smith	13 Ridgewood Rd.	Rome	GA	30165	(706) 235-5232	<a href="mailto:Smika13@comcast.net">Smika13@comcast.net</a>

**APPENDIX B.**

**STATUS REPORTS / UPDATES TO THIS PLAN**

If there are any revisions to an existing plan, this section will describe the date, section or table updated, and a summary of what was changed and why. A Status Report / Updates on Existing Local TMDL Implementation Plans and Watershed Remediation will be attached as a separate document.

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N/A This is a new TMDL implementation plan.

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APPENDIX C.

VISUAL FIELD SURVEYS, NOTES, PHOTOGRAPHS, AND MAPS.

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**Dykes Creek, Headwaters to Etowah River – 0315010416**  
**Floyd County**

3/23/2009

Survey Team: Julie Meadows (1<sup>st</sup> stop only), Ben Robinson and Jonathan Bridges

Weather: Sunny, few clouds

Stop#1: Bridge on Kingston Rd/ Fred Kelly Rd

Clear good flow was noted, as was several tracks of wildlife. Surrounding area is mostly rural residential, with several single family houses on the stream banks.



Stop # 2: Fred Kelly Rd.  
Clear, good flow. Agriculture on the Eastern side.



Stop #3: Gentry Rd.

Good clear flow, some brush in the creek. Surrounding land is agricultural fields.



Stop#4: Maclain Rd.

Flows into a pond that is greenish in color, but it is clear and with a moderate flow above the pond.



Stop #5: Flowery Branch Rd.

Clear and good flow. There is pine silviculture on both sides of creek. Some gravel falling into stream from road.



Stop #6: Fire Tower Rd.  
Clear in shallow areas, murky in pools, algae.



## Sources

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www.georgiastats.uga.edu

EPD data (NPDES, landfill, supplied by Chris Faulkner, Environmental Outreach Coordinator, EPD.

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“Georgia’s Best Management Practices for Forestry.” January 1999, Georgia Forestry Commission.

LRP rating- Best Management Practices for Georgia Agriculture: conservation practices to protect surface water Quality. March 2007. The Georgia Soil and Water Conservation Commission.

Erosion and Sedimentation Control Issuing Authorities, by County. Updated January 23, 2009. Georgia EPD: Watershed Protection Branch. Frank Carubba.

The Northwest Georgia Comprehensive Water Management Plan. October 2004. MACTEC Engineering and Consulting, Inc. and Brown and Caldwell for the Northwest Georgia Regional Water Resources Partnership (NWGRWRP) and the U.S Army Corps of Engineers (COE).

Preliminary Water Supply Study January, 2008. MACTEC Engineering and Consulting, Inc. and Brown and Caldwell for NWGRWRP.

Northwest Georgia Water Quality Improvement and Implementation Plan: Data Summary Report – Year 1 Events. April 24, 2009. MacTec Engineering and Consulting, Inc. and Brown and Caldwell. Prepared for the NWGRWRP and the U.S. Army COE. Project # 6110-08-0325.

CODE OF ORDINANCES County of FLOYD, GEORGIA [http://www.municode.com/Resources/ClientCode\\_List.asp?cn=Floyd%20County&sid=10&cid=5340](http://www.municode.com/Resources/ClientCode_List.asp?cn=Floyd%20County&sid=10&cid=5340)

THE UNIFIED LAND DEVELOPMENT CODE of Floyd County and the City of Rome, Georgia Initial Adoption: August 2001  
Date of Revision: 2008

CITY OF ROME AND FLOYD COUNTY COMPREHENSIVE PLAN INCLUDING THE CITY OF CAVE SPRING ADOPTED APRIL 8, 2008 Planning Works

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