HUSSEY, GAY, BELL & DEYOUNG, INC.
CONSULTING ENGINEERS
A Bell Company

May 9, 2011

Ms. Diane D. Schleicher
City Manager
City of Tybee Island
P. O. Box 2749
Tybee Island, Georgia 31328-2749

RE: WATERSHED PROTECTION PLAN

Dear Ms. Schleicher:

Hussey, Gay, Bell & DeYoung is pleased to present this proposal for preparing the City's Watershed Protection Plan as required by EPD. The Watershed Protection Plan has four (4) parts: (a) summarizing the data obtained from the Watershed Assessment, (b) determining a long term water quality monitoring plan, (c) reviewing the City's existing Best Management Practices, and (d) possibly establishing new Best Management Practices to ensure that water quality is not degraded within the City service area. We have attached EPD's Guidance Document to further define the requirements of the plan.

Although the City's Watershed Assessment has not been approved by EPD, the City's deadline for submitting the Watershed Protection Plan remains June 12, 2011. EPD has a requested that the City proceed with the preparation and submittal of the Plan. We have assumed that there will be no significant changes in the Watershed Assessment.

Our fees for preparing this plan will be on an hourly basis in accordance with the attached Hourly Rate Schedule and will not exceed $18,765 without prior approval by the City. Please note that the fee noted above includes a 10% discount in fees as previously offered by HGBD.

Thank you for the opportunity to present this proposal We would be glad to use a signed copy of our Notice to Proceed.

Sincerely,

WILLIAM H. LOVETT
President

cg
cc: Bob Whelchel
Jennifer Oetgen

ACCEPTED BY:_____ DATE:_____

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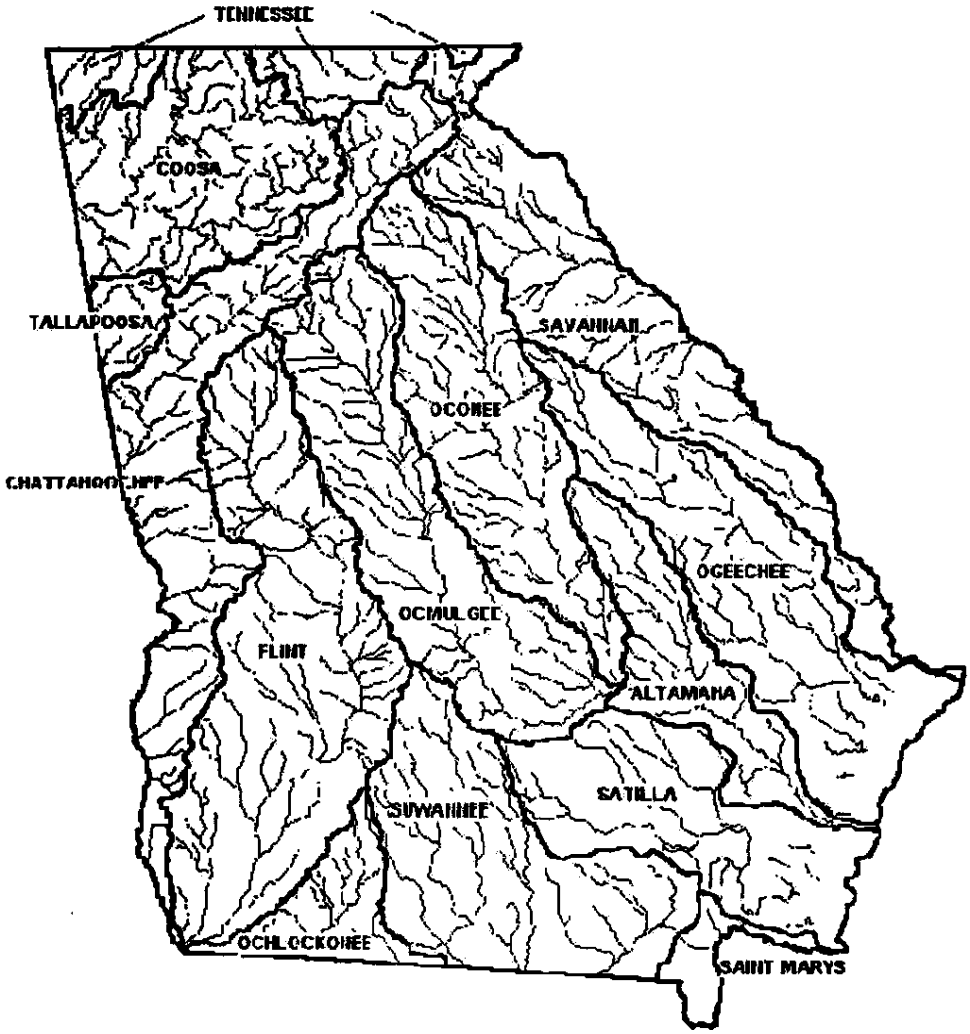
WATERSHED ASSESSMENT AND PROTECTION PLAN GUIDANCE:
Phase III
Watershed Protection Plans



Georgia Department of Natural Resources
Environmental Protection Division
Watershed Protection Branch

The Watershed Protection Plan (WPP) will be based on the information obtained in the Watershed Assessment. The Plan will describe watershed protection strategies that will be used to protect water quality. The Watershed Protection Plan must contain the steps necessary to improve and meet water quality standards. The Plan must include specific actions and detailed schedules for implementation, and must be submitted to EPD by the City or County.

Each year, the City or County must submit certification of WPP implementation. In addition, the long-term monitoring data must be available for review. Every year, the City or County must submit a Progress Report that outlines the specific actions that have been implemented, presents the long-term trend monitoring data, and includes any changes and/or revisions to the Watershed Protection Plan, if necessary. The data must be submitted electronically.

Any planned or ongoing protection efforts should be noted and coordination of these efforts is strongly encouraged. For example, local governments may also be implementing stormwater management programs to comply with their NPDES Municipal Separate Storm Sewer System (MS4) discharge permits.

The Watershed Protection Plan will apply to all areas contained within the City or County's political boundaries and to any other areas to which the City or County provides sewer service. As part of this document, the City or County should identify and adopt specific best management practices (BMPs) to ensure that Georgia water quality standards are met. BMPs include both structural controls (i.e., stream bank restoration, stormwater detention/retention pond retrofits) and non-structural controls (i.e., Adopt-a-stream, public awareness brochures). These BMPs should be enforceable through ordinances or some other similar method (i.e., new development plans, storm water management plans, green space programs, etc.).

I. Legal Authority
   A. Political jurisdiction - Information may be provided in table format
      i. Identify the responsible parties, which may include local governments, groups of governments, and/or pertinent authorities and organizations within the watershed, such as a watershed protection group. Include the following information for all responsible parties:
         a. Name
         b. Address
         c. Telephone number
         d. Fax number
         e. E-mail address
      ii. Identify local agencies that have authority over zoning and development activities in the delineated watershed areas
      iii. Identify resources available to implement the Plan
   B. Code and regulation evaluation
      i. Determine if there is adequate authority to develop and implement the Plan. Review the following:
         a. Ordinances
         b. Land use plans
         c. New development plans
         d. Storm water management plans - This includes the Storm Water Management Plans (SWMP) required by the NPDES MS4 permit,

which are specifically defined by both the Phase I and Phase II Federal Regulations, as well as any other plans developed for the area.

e. Water and sewer upgrades – I&I
f. Parks and recreation
g. Green Space Program

II. Funding
   A. Provide an estimate of the cost to implement the Plan
   B. Provide potential sources of funding, which could include:
      i. User fees and/or stormwater surcharges
      ii. Section 319 programs
      iii. State Revolving Funds
      iv. USDA's Environmental Quality Incentives Program and Conservation Reserve Program
      v. Other relevant Federal, State, local and private funds

III. Identification of pollutant sources requiring control and management
   A. Utilize information generated in the Watershed Assessment to establish baseline watershed conditions
   B. Quantify their present extent (i.e., number of feedlots needing upgrade, linear feet of fence needed to keep livestock out of the stream, acres of row crops needing improved sediment control, linear feet of eroded streambank needing remediation, etc.)
   C. Estimate the load reductions expected for the various management measures

IV. Best Management Practices (BMPs) that have been put into place or will be put into place to help achieve and maintain water quality standards, and prevent future water quality standards violations
   A. Structural BMPs – including, but not limited to:
      i. Re-vegetate areas
      ii. Restoration of riparian areas and stream banks
      iii. Retrofit stormwater detention/retention ponds
      iv. Control storm flow and velocity
      v. Septic tank maintenance and repair
   B. Non-structural BMPs – including, but not limited to:
      i. Public Awareness – a component that will be used to enhance public understanding and participation in implementing the plan
         a. Stakeholder Meetings
         b. Workshops
         c. Continuous Education
         d. Brochures
      ii. Outreach Programs
         a. Adopt-a-stream
         b. Project WET
      iii. Stream Walks
      iv. Septic Tank Surveys maintained by County Health Department
      v. Illicit Discharge Detection & Elimination (IDDE) Program
      vi. Operation and Maintenance Program for the MS4
      vii. Erosion and Sedimentation (E&S) inspections

V. Management Measures Specific for 303(d) Listed Stream Segment(s) where a TMDL Implementation Plan has not been developed. Information may be provided in table format.
For each listed segment provide the following information:
   A. List potential monitoring/management measures that can be used for the particular parameter(s) which resulted in the 303(d) listing
   B. Identify who will be responsible for implementing the monitoring/management measure(s)
   C. Identify the potential funding source(s)
   D. Provide current status and/or date the measure(s) will be initiated
   E. Describe the expected effectiveness of the measure(s)
   F. For educational and outreach activities, list the intended audience

VI. Schedule for implementing the management measures
   A. Describe the interim, measurable milestones for determining whether the management measures or other control actions are being implemented

VII. Long Term Monitoring Plan
   A. Purpose and Objectives
      i. Utilize information generated in the watershed assessment that establishes baseline watershed conditions
      ii. Document stream improvement
      iii. Identify water quality impairments and streams requiring further action
      iv. Provide information on the effectiveness of BMPs toward meeting water quality standards, including any required modifications
   B. Identify the following:
      i. Parties responsible for conducting monitoring
      ii. Sampling locations
      iii. Monitoring schedule
      iv. Monitoring procedures
      v. Water quality parameters to be monitored
      vi. Biological monitoring should be conducted biennially (every two years). Biological monitoring results should be compared to reference stream data provided by EPD.
      vii. Chemical sampling should be conducted annually (at a minimum, 4 events)
      viii. Monitoring data should be provided in an electronic format, such as Excel

VIII. Reporting Requirements
Once the Watershed Protection Plan is approved, each June 30th the following should be submitted to EPD
   A. Annual certification of WPP implementation
   B. Electronic submittal of the long-term trend monitoring data
   C. Progress Report which includes
      i. Specific actions or BMPs that have been implemented
      ii. Documentation of water quality improvements
      iii. Summary of any changes and/or revisions to the Watershed Protection Plan, if necessary

Hussey, Gay, Bell & DeYoung, Inc.
Consulting Engineers
Savannah, Georgia

A Bell Company

SCHEDULE OF HOURLY RATES

January 2011

Principal Engineer	160.00
Professional Engineer (Testimony and Preparation)	185.00
Engineer IV	125.00
Engineer III	115.00
Engineer II	110.00
Engineer I	105.00
Assistant Engineer	100.00
Technician III	95.00
Technician II	90.00
Technician I	80.00
Landscape Architect	100.00
Senior Project Representative	75.00
Project Representative	70.00
Assistant Construction Technician	60.00
Permitting Technician	60.00
Environmental Scientist	105.00
Registered Land Surveyor	105.00
3-Man Survey Crew	125.00
2-Man Survey Crew	120.00
3-Man GPS Survey Crew	130.00
2-Man GPS Survey Crew	125.00
1-Man GPS Survey Crew	115.00
Hydrographic Boat and Equipment	65.00
Clerical	55.00