



GENERAL GUIDELINES

SECTION 319(h) FY2016
NONPOINT SOURCE IMPLEMENTATION GRANT

Revised July 2015

FY2016 TABLE OF CONTENTS

INTRODUCTION	4
Eligible Applicants	4
Maximum Federal Reimbursement & Minimum Match	4
WHAT'S NEW FOR FY2016 	5
MINIMUM REQUIREMENTS FOR FUNDING	5
Acceptable Alternatives to Watershed-Based Plans.....	5
SELECTION FACTORS	6
Key Ranking Criteria	6
Additional Selection Priorities	6
Eligible and Ineligible Projects	9
“Above & Beyond” NPDES Permit Requirements	10
PRE-APPLICATION MEETING.....	11
APPLICATION INSTRUCTIONS	11
Check List of Inclusions	13
Project Cover Page/Watershed-Based Plan Summary	14
PROJECT DESCRIPTION	16
Project Title	16
Lead Organization	16
Project Goals	16
Project Background	17
Project Activities	19
Roles and Responsibilities of Participating Organizations	22
Project Location	23
NPS Pollution Impairments or Healthy Waters	24
Monitoring	25
Project Budget	26
Project Implementation and Drawdown Schedule	30
Project Attachments.....	32
APPENDICES	
A. Check List of USEPA’s Nine Elements of Watershed Planning	33
B. Determining Measures of Success	35
C. Monitoring for 319(h) Projects	37
D. Match FAQs Sheet	42
E. Required Due Diligence for NPS Land Conservation Projects ..	45
F. Map & List of HUC-12 Priority Watersheds	47



CONTACT Us

GEORGIA ENVIRONMENTAL PROTECTION DIVISION
WATERSHED PROTECTION BRANCH
NONPOINT SOURCE PROGRAM

2 MARTIN LUTHER KING JR. DRIVE
ATLANTA, GEORGIA 30334
(404) 463-1511

JEFF LINZER (UNIT MANAGER) – (404) 651-8532
JEFFREY.LINZER@DNR.GA.GOV

BARBARA STITT-ALLEN (PRIMARY CONTACT) – (404) 651-8538
BARBARA.STITT@.DNR.GA.GOV

HARRIET BRYANT – (404) 651-8525
HARRIET.BRYANT@DNR.GA.GOV

MARY GAZAWAY – (404) 651-8522
MARY.GAZAWAY@DNR.GA.GOV

CONNIE GILLIAM – (404) 651-8530
CONNIE.GILLIAM@DNR.GA.GOV

JOY HINKLE – (404) 463-3142
JOY.HINKLE@DNR.GA.GOV

**If you have any questions about these guidelines or the associated application materials,
please contact a Grants Unit Staff Member listed on this page**

The preparation of these guidelines was financed through a grant from the U.S. Environmental Protection Agency under provisions of Section 319(h) of the Clean Water Act of 1987, as amended.

INTRODUCTION

Under Section 319(h) of the Clean Water Act, the U.S. Environmental Protection Agency (USEPA) awards a Nonpoint Source Implementation Grant to the Georgia Environmental Protection Division (GAEPD) to fund eligible projects that support the goals of the Georgia Nonpoint Source Program (NPSP). **Section 319(h) Grant funds are awarded to projects that specifically identify the nonpoint sources of pollution to be addressed and the activities proposed to prevent, control and/or abate the identified nonpoint pollution sources.** Federal funding for each Grant is dependent on allocations from Congress and adjustments by USEPA. Because Grant funds are limited, GAEPD employs a competitive process to ensure the most appropriate projects are funded. **This document is designed to assist applicants in understanding that process and completing the necessary application materials.**

Eligible Applicants

Public entities in Georgia:

- City and county governments, and State agencies;
- Local, regional, or State authorities operating jurisdictional services and/or delivery programs;
- Regional Commissions;
- Resource Conservation and Development Councils;
- Local and regional school systems, and
- State colleges and universities.

Local governments must have Qualified Local Government Status in compliance with the requirements of the Georgia Planning Act of 1989 and the Service Delivery Strategy Law of 1997 in order to be eligible to execute contracts with GAEPD, per State law.

State law currently prohibits non-governmental organizations (such as private firms and nonprofit organizations) from receiving Section 319(h) Grant funds directly. However, these organizations are encouraged to foster partnerships with eligible applicants to develop and/or implement projects. **Eligible applicants that partner with local non-profit watershed groups established prior to the submittal of the application will receive additional priority consideration for a grant award.**

Maximum Federal Reimbursement & Minimum Non-Federal Match

- Maximum **federal reimbursement for a 319(h) Grant is \$400,000** and limited to 60% of the total project cost.
- Applicants must commit to a minimum non-federal match of 40% of the total project cost.
- Calculate Match Commitment as **Federal Funds Requested x 2/3**.
- Match amounts and sources must be specified in sections of the project application.
- **Applicants who document a match commitment of 50% or greater will receive priority consideration for funding.**
- Indirect Costs are not reimbursable with federal funds; but, can be applied 100% to required local match. Indirect Categories & Rates must be documented by either a Federal review or audit procedures, and submitted with the application.

MATCH IS EXPLAINED IN MORE DETAIL IN APPENDIX D

WHAT'S NEW FOR FY2016?

TRACK WHAT'S NEW FOR THE FY2016 SECTION 319(h) GRANT WITH THE  SYMBOL!

MINIMUM REQUIREMENTS FOR FUNDING

Eligible projects will be scored competitively based on criteria established in compliance with GAEPD and USEPA rules and guidelines to allocate 319(h) funds. The more criteria addressed, the more competitive the project. This list is for guidance purposes only and can in no way be used as a prediction for funding approval.

All project applications must meet all three minimum requirements:

- Implement an **existing watershed-based plan or acceptable alternative** that adequately meets USEPA's Nine Elements for Watershed Planning;

 • Locate the project in a watershed or drainage area equal in size to a **single 10-digit Hydrologic Unit Code (HUC-10)** or smaller; **and**

- Commit to a **minimum 40% non-federal Match** that can be accomplished through local funds, in-kind services, or other non-federal sources.

 There will be **no FY2016 funds awarded to either revise existing or develop new watershed-based plans**. This means the GAEPD will **no longer fund even minimal updates to plans that have been proposed for implementation**. Existing watershed-based plans submitted with applications must be complete and meet all USEPA Nine Elements for Watershed Planning.

Acceptable Alternatives to Watershed-Based Plans

Acceptable alternatives to watershed-based plans include:

- Georgia's eleven (11) Regional Water Plans
- Multiple planning documents (TMDL Implementation Plans, other watershed documents) that have been combined to represent an alternative to a watershed-based.

 In order for either of these options to be acceptable, it is imperative that the application contain the following (see official Application format):

1. Description of each of the nine elements in list format (A-I);
2. Citation of documents, headings and page numbers from the Regional Water Plans or the combined documents that fulfill the requirements of each element; and
3. Summary of content from the Regional Water Plans or the combined documents that correlates with each of the nine elements.

APPENDIX A

A Check List of **USEPA's Nine Elements of Watershed Planning** can be found in Appendix A and provides an outline of the contents of an effective, watershed-based plan.

SELECTION FACTORS

Key Ranking Criteria

The following criteria will be used to evaluate project execution, impact and effectiveness in achieving the objectives stated in the Project Goals. The most effective proposals will:

- Specify the nonpoint sources of pollution to be addressed and propose the activities best suited to prevent, control and/or abate the identified nonpoint pollution sources.
- Demonstrate cost effectiveness.



- Support the milestones and/or implementation activities outlined in the 2014 revision of [Georgia's Statewide Nonpoint Source Management Plan](#).
- Develop appropriate Measures of Success for each Project Activity and Task, and include numerical values, where appropriate.
- If the project will implement structural best management practices (BMPs), include:
 - Schedules of BMP operations and maintenance, OR manuals describing Standard Operating Procedures, that cover the expected lifespan of the practice and in accordance with commonly accepted standards;
 - Records of linear feet for streambank restoration or acres for wetland protection;
 - Quarterly estimates of load reductions in nitrogen, phosphorus and sediment;
 - Monitoring post-BMP installation for nine (9) months prior to the close of the project.
- If the project involves water quality monitoring, include a Quality Assurance/Quality Control (QA/QC) monitoring plan. The plan **must be submitted as either a DRAFT or completed document with the application**, and can be either a:
 - Targeted Monitoring Plan to track trends in water quality improvement; or
 - Sampling Quality Assurance Plan (SQAP) to qualify data for listing assessments.

Additional Selection Priorities

Priority consideration will be given to proposals that also:

- Implement an existing watershed-based plan compliant with USEPA's Nine Elements for Watershed Planning which targets Georgia's DRAFT 2014 Section 305(b)/303(d) List of Waters in order to:



- **Improve water quality by 40% in impaired (not supporting) waters;**
 - Restore impaired (not supporting) waters so that they are meeting water quality standards and supporting their designated or beneficial uses; or
 - Protect water quality in Category 1 (supporting) waters by incorporating USEPA's *Healthy Watersheds Initiative*.

For a list of the State of Georgia's impaired waters on the 305(b)/303(d) list, please visit <http://epd.georgia.gov/georgia-305b303d-list-documents>

USEPA's **Healthy Watersheds** website provides the tools and information that states, local governments and others need to identify and protect healthy watersheds www.epa.gov/healthywatersheds

- Implement structural and/or nonstructural best management practices recommended in a watershed-based plan that will lead to measurable (quantitative) improvements in water quality.
- Support a watershed management approach utilizing cooperating partnerships and/or multi-governmental agencies, especially in conjunction with other nonpoint source management activities within the watershed as well as across jurisdictional boundaries.
- Target waterbodies impaired for violating water quality standards and/or for water quality issues related to Pathogens, Dissolved Oxygen, Sediment, and/or Nutrients.
- Implement management practices identified in the appropriate Regional Water Plan.
- Address waters with finalized TMDLs.

WHAT IS A TMDL?

A TMDL (Total Maximum Daily Load) is a calculation of the maximum amount of a pollutant that a river, stream, or lake can receive and still meet water quality standards.

For a list of the State of Georgia's TMDLs, visit <http://epd.georgia.gov/total-maximum-daily-loadings>

For general information on TMDLs, see the USEPA website: <http://www.epa.gov/owow/tmdl>

- Demonstrate results in environmental benefits beyond addressing nonpoint source impairments. These benefits may include, but are not limited to: environmental justice, air quality, water or energy conservation, stream flow profile, habitat connectivity, and others.
- Commit to a match of 50% or higher, and provide appropriate documentation.
- Locate the project area(s) in priority watershed(s) as determined by GAEPD and USEPA. **APPENDIX F includes a map and list of Priority HUC-12 watersheds.**
- Include administrative and/or managerial improvements that prevent and/or correct the adverse hydrologic impacts of increased impervious surfaces. In order to receive consideration for this priority ranking, applications must propose to develop and implement items such as local or regional development ordinances, stream buffer protections wider than State minimums, or other local mechanisms to ensure long-term success in minimizing the potential future impacts of hydrological modifications.
- Qualify as a WaterFirst Community or locate the project within the jurisdiction of a WaterFirst Community that has committed to participate as a partner in the project.

- Partner with local non-profit watershed groups that were established prior to the submittal of the application.
- Describe intentions to carry out specific activities that address and/or implement management measures, enforceable policies, and mechanisms that will result in *Georgia's Coastal Nonpoint Source Management Program* being fully approvable under Section 6217 of the Coastal Zone Act Reauthorization Amendments of 1990 (CZARA).

Proposals must also meet the following factors for competitive selection:

- Follow all instructions and guidelines as described in GAEPD's *General Guidelines: Section 319(h) FY2016 Nonpoint Source Implementation Grant*. **Applications that fail to comply with FY2016 instructions and guidelines may not be reviewed or recommended for funding.**
- Prepare application in a clear and concise manner where all goals and objectives are clearly stated, and where all activities can be clearly understood.
- **Applicants are encouraged to describe staff or operational changes since completing a previous project that would improve their ability to manage a 319(h) Grant project efficiently and effectively. Successful administration includes, but is not limited to:**
 - Completing all project activities during the contract period;
 - Meeting all required deadlines;
 - Completing the project on time and on budget;
 - Expending most or all grant funds requested on project activities; and
 - Providing adequate documentation as requested by GAEPD.

Applicants who have NOT successfully administered previous Section 319(h), Section 106, and/or Section 604(b) grant-funded projects, where applicable, may receive a reduction in points during project review.

Please note that first-time applicants will NOT be penalized during the review process.

Eligible and Ineligible Projects

Proposals must address nonpoint sources of pollution to improve water quality through implementation of an existing watershed-based plan. The following categories and examples of Eligible Projects are not exhaustive and should be considered in context with the competitive selection requirements, criteria, and priorities outlined in these guidelines.

Examples of ELIGIBLE Project Activities	
Implement BMPs Recommended in TMDL Implementation or Watershed-Based Plans	<ul style="list-style-type: none"> • Commit to operate/maintain BMPs over expected lifespan of practice • Estimate load reductions (nitrogen, phosphorus & sediment) • Restore & protect streambanks (feet) or wetlands (acres) • Fence out livestock; provide alternate watering sources; install heavy use protection areas
Build Local Capacity to Implement Project	<ul style="list-style-type: none"> • Recruit partners to practice pollution controls
Reduce non-NPDES Urban NPS Pollution	<ul style="list-style-type: none"> • Develop stormwater utility
Water Quality Monitoring (evaluate BMPs)	<ul style="list-style-type: none"> • Collect and analyze samples according to QA/QC Plan or SQAP
Specific Demonstration Projects	<ul style="list-style-type: none"> • Introduce & evaluate new technology or policy
Certain Groundwater Activities	<ul style="list-style-type: none"> • Target BMPs to recharge & wetland areas
Approved Lake Protection Projects (NPS)	<ul style="list-style-type: none"> • Establish & maintain buffers
Technical & Financial Assistance	<ul style="list-style-type: none"> • Adopt ordinances; secure funding & partners

Ineligible activities are not entitled to 319(h) funding due to various Federal and State laws, rules, and policies, and cannot be supported by either federal or local matching funds.

Examples of INELIGIBLE Project Activities
<ul style="list-style-type: none"> • Implementation of National Pollutant Discharge Elimination System (NPDES) permit requirements (including Concentrated Animal Feeding Operations, Phase I & II Stormwater Permits, Wastewater Permits) or of elements included in a permit (i.e., mandated Watershed Assessments and/or Protection Plans).
<ul style="list-style-type: none"> • Dam construction and/or removal
<ul style="list-style-type: none"> • Lake dredging or aquatic macrophyte harvesting (Exceptions may be made if ALL contributing sediment sources have been corrected.)
<ul style="list-style-type: none"> • Surface paving (impervious).
<ul style="list-style-type: none"> • Fulfillment of consent orders and/or decrees.
<ul style="list-style-type: none"> • Construction of wastewater infrastructure (including sewer connections).
<ul style="list-style-type: none"> • Water quantity/supply projects (such as reservoirs, wells, infrastructure, etc.).
<ul style="list-style-type: none"> • Installation of incinerators (Composting is the preferred practice as a means of dead livestock disposal. Policy documents are available upon request.)

“Above and Beyond” NPDES Permit Requirements

Some activities recommended in a watershed-based plan may be considered eligible for funding or as match under a 319(h) grant if they represent efforts, approaches or applications “above and beyond” any elements associated with a NPDES permit. **Congruently, grant-funded activities entered in any NPDES permit report MAY NOT be counted as compliance.**

Applicants must include a signed Letter of Assurance on official letterhead verifying that activities proposed for a 319(h) project represent practices that are “above and beyond” NPDES permit requirements and will not be counted as compliance in any NPDES permit reports.

Watershed monitoring under a NPDES permit will not qualify for 319(h) Grant funding. However, if the applicant plans to use ongoing NPDES monitoring to assess water quality in support of the 319(h) project, that data may be delivered with Quarterly Progress Reports.

Examples of Activities “Above & Beyond” NPDES Permits

Add to Specified Number of Activities or Tasks Quoted in the NPDES Permit.

Example:

- The permit itemizes installation of nine septic system replacements.
- The 319(h) grant application would request funds to replace septic systems number 10 and up, and explain that these qualify as “above and beyond” the permit requirement.
- The applicant would replace the additional septic systems (10 and up), and would never count the additional installations as compliance with any NPDES permit requirements.

Fulfill Numerical Quota for Activities with No Specified Number in the NPDES Permit.

Example:

- The permit describes installing unspecified numbers of signs, disposal bags / stations, and receptacles to address pet waste in areas of high pet traffic, parks or picnic sites.
- The 319(h) grant application would request funds to install a specific numerical quota (3 signs, 300 bags, 3 bag stations, 3 receptacles), and explain that this quota would be “above and beyond” any permit requirement.
- In this case, the applicant would receive grant reimbursement until the numerical quota had been reached; but would never count those installations as compliance with any NPDES permit requirements.

Propose Completely New Activities or Approaches Not Included in the NPDES Permit.

Example:

- The permit proposes particular feasible structural controls to reduce urban run-off pollution; but, does not include bio-swales as an effective management practice.
- The 319(h) grant application would request funds to install bio-swales or to reimburse other activities not specified in the permit, and explain these practices as “above and beyond” the permit requirements.
- The applicant would never count the grant-funded installations or activities as compliance with any NPDES permit requirements.

PRE-APPLICATION MEETING

All applicants are required to meet or conference call with GAEPD Grants Unit Staff to discuss the project proposal before an application is submitted. Project partners, consultants, or other affiliated parties are welcome to attend, but the primary applicant **MUST** be in attendance.

Grants Unit Staff are available to review and comment upon draft applications if the documents are received by September 30, 2015. **All pre-application meetings MUST be completed by October 15, 2015.** To inquire about potential projects or to schedule a pre-application meeting or conference call, contact:

Barbara Stitt-Allen
404-651-8538
barbara.stitt@dnr.ga.gov

APPLICATION INSTRUCTIONS

APPLICATION MATERIALS THAT DO NOT ADHERE TO THE CURRENT FORMATS AND GUIDELINES ON THE GAEPD WEBSITE MAY NOT BE CONSIDERED FOR FUNDING.

APPLICATION DEADLINE

Section 319(h) FY2016 Grant applications must be postmarked by NOVEMBER 2, 2015.
Any application postmarked or delivered after this date will not be considered for funding.

Required Files and Formatting

Follow ALL instructions and complete ALL sections of the application. If a section of the application does not pertain to the project, enter "Not Applicable" or "(N/A)." **DO NOT LEAVE ANY SECTIONS BLANK.** Incomplete applications may not be considered for funding.

All required templates can be downloaded from the GAEPD website:
<http://epd.georgia.gov/section-319h-georgias-nonpoint-source-implementation-grant>

- **Application (Microsoft WORD file):**
 - Do NOT submit Application in Adobe or .pdf format.
 - Type applications single-spaced in 11-point standard font.
 - Number pages, and include the project and applicant names on each page.
 - Reference all digital supporting documents in Section 12. Project Attachments.
 - Make certain that electronic file labels agree with references to those attachments throughout the application.

- **Project Implementation and Drawdown Schedule (Microsoft EXCEL file):**
 - Do NOT submit Drawdown Schedule in Adobe or .pdf format.
 - Format in color and sized 11 x 17 inches
 - Complete according to the template provided. Detailed instructions plus an example are included in the file.
 - Label the Drawdown Schedule file appropriately so that it can be easily paired with the Application file.

Application Packet

APPLICATION PACKETS MUST BE SUBMITTED AS DIGITAL FILES SAVED TO A CD.

- Include all required files and supporting materials.
- Label files to correspond with references in the application.
- Do not submit paper copies of the application or any supporting documents
- ONLY submit one paper copy of the:
 - Check List of Inclusions
 - Project Cover Page

MAIL OR DELIVER APPLICATION PACKETS TO:

**Section 319(h) FY2016 Grant Application
ATTN: Connie Gilliam
Georgia EPD
Watershed Protection Branch
Nonpoint Source Program
2 Martin Luther King Jr. Drive
Suite 1462 East
Atlanta, GA 30334**

FASCIMILES OR EMAIL SUBMISSIONS WILL NOT BE ACCEPTED.

CHECK LIST OF INCLUSIONS

Required items **must** be included or the application may not be considered for funding. Mark each item included in the digital Application Packet saved on a CD. Provide the file label to identify where the document can be found in the Application Packet.

Required Paper Copies to Submit with Digital Application Packet

_____ Check List of Inclusions

_____ Project Cover Page

Required in Digital Application Packet to be Considered for Funding

_____ Project Application

Document File Label: _____

_____ Project Implementation and Drawdown Schedule (sized 11x17 inches in color)

Document File Label: _____

_____ Signature for Budget Disclaimer: Non-Federal Source & No Overlap of Match Funds

Document File Label: _____

Include in Digital Application Packet to be Competitive for Funding

_____ Letters of Commitment that Quantify Match Values (on letterhead)

Document File Label: _____

_____ DRAFT QA/QC Water Quality Monitoring Plan (for GAEPD review)

Document File Label: _____

_____ Letter of Assurance: Project Is Above & Beyond NPDES Permits (on letterhead)

Document File Label: _____

_____ Watershed-Based Plan to be Implemented

Document File Label: _____

Add File Labels to the following as needed

_____ Attachments, Appendices, Exhibits (research studies, TMDLs, etc.)

Document File Label: _____

_____ Photographs, Figures, Tables (field surveys, water quality data)

Document File Label: _____

_____ Maps (project area, watersheds, streams, counties, cities, roads)

Document File Label: _____

PROJECT COVER PAGE

Project Information

Project Title: _____

*The project title should clearly identify and describe the project in no more than **two lines** of text. The title should state the type of project (e.g. implementation of watershed-based plan or TMDL implementation plan, streambank restoration, etc.) and applicable watershed(s) name(s).*

Applicant: _____

The Applicant is the lead organization responsible for managing the proposed project.

Primary Contact: _____

This contact will be the individual within the lead organization who will be responsible for all project administration and communication with GAEPD.

Date of Pre-Application Meeting with GAEPD Staff: _____

Summary of Watershed-Based Plan

1. Is the project implementing an existing watershed-based plan that addresses USEPA's Nine Elements of Watershed Planning? YES ___ NO ___

If YES, identify the title of the plan and provide a copy as an Attachment to the application:

TITLE: _____

2. Was the watershed-based plan developed using Section 106, 604(b) or 319(h) Grant funds? YES ___ NO ___

If you are unsure whether your plan was developed through one of these Grants, please contact a Grants Unit Staff Member listed on Page 3 for clarification.

3. List the page numbers and section headings/subheadings where each of the Nine Elements of Watershed Planning can be found in the attached watershed-based plan.

Add Pages and Sections as needed.

Keep each Summary to a maximum of 5 sentences.

Include a digital copy of the full plan in an electronic file as an attachment.

ELEMENT (A): IDENTIFICATION OF POLLUTANT & IMPAIRMENT CAUSES & SOURCES

Pages _____ Section _____ Summary:

Pages _____ Section _____ Summary:

ELEMENT (B): POLLUTANT LOAD REDUCTION ESTIMATES EXPECTED FROM BEST MANAGEMENT PRACTICES (BMP)

Pages _____ Section _____ Summary:

Pages _____ Section _____ Summary:

ELEMENT (C): NONPOINT SOURCE (NPS) BEST MANAGEMENT PRACTICES (BMP) & CRITICAL TARGET AREAS FOR BMP INSTALLATION

Pages_____ Section_____ Summary:
Pages_____ Section_____ Summary:

ELEMENT (D): FINANCIAL & TECHNICAL ASSISTANCE TO IMPLEMENT BMP, ASSOCIATED COSTS & SOURCES OF FUNDS

Pages_____ Section_____ Summary:
Pages_____ Section_____ Summary:

ELEMENT (E): EDUCATION & OUTREACH TO ENCOURAGE PUBLIC PARTICIPATION IN PLAN IMPLEMENTATION

Pages_____ Section_____ Summary:
Pages_____ Section_____ Summary:

ELEMENT (F): BMP IMPLEMENTATION SCHEDULE

Pages_____ Section_____ Summary:
Pages_____ Section_____ Summary:

ELEMENT (G): INTERIM MILESTONES TO DETERMINE PROGRESS OF BMP IMPLEMENTATION

Pages_____ Section_____ Summary:
Pages_____ Section_____ Summary:

ELEMENT (H): SET OF CRITERIA TO MONITOR AND ASSESS BMP

Pages_____ Section_____ Summary:
Pages_____ Section_____ Summary:

ELEMENT (I): COMPONENT TO DETERMINE PLAN IMPLEMENTATION EFFECTIVENESS

Pages_____ Section_____ Summary:
Pages_____ Section_____ Summary:

A detailed check list of USEPA's Nine Elements of Watershed Planning is included in Appendix A.

PROJECT DESCRIPTION

Describe the specific project goals and related activities that will take place to achieve them. By capturing the details of what will occur from the time the project begins until completion, the applicant is able to visualize the implementation of the project. Additionally, the **project description must specifically identify the nonpoint sources of pollution to be addressed and clearly articulate the activities designed to prevent, control and/or abate those sources.** Include information that demonstrates the lead organization's specific knowledge about the proposed project and its competency to produce an acceptable product.

1. Project Title:

2. Lead Organization and Primary Contact:

Provide the name, address, telephone number, fax number and email of the lead organization and primary contact. State if the lead organization is a WaterFirst Community or if the project is located within the jurisdiction of a WaterFirst Community that has committed to participate as a partner in the project. It is acceptable to include a secondary point of contact (for instance, when an applicant would like to include contact information for a major project partner). However, primary contact information must be provided for the applying organization to facilitate invoicing, documentation, and reporting.

Provide the Project Start Date, Project End Date, Federal Amount Requested, Match Amount to be Contributed and Total Project Amount where indicated.

3. Project Goals

Clearly state the overall goal(s) of the proposed project in a concise manner. Treat this section as a "sound bite" that **provides an accurate account of what the project will accomplish in the grant period.** The information provided must be factual, and project goals must be realistic and attainable. **Each objective should tie into the Project Activities & Tasks and Budget.**

- Identify the watershed-based plan to be implemented.
- Specify the names and listing status, as appropriate, of water bodies to be addressed, including protecting healthy watersheds.
- Directly target the water quality impairments and/or issues identified, and any TMDLs for those impairments.
- Estimate load reductions or other quantifiable measures of success.
- Focus on management measures to be implemented that will achieve and/or maintain state water quality standards and/or lead to measurable improvements in water quality.

4. Project Background

Explain in a clear and concise manner the **what, how, why, and who** that justifies funding the particular proposed project. Include all relevant supporting background information in a summary format. The following list is not all inclusive; but, provides some examples:

- State **what** are the existing and documented water quality impairments and concerns.
 - Clarify all existing nonpoint source pollution impairments (or water quality concerns, if the project will be protecting a healthy watershed with preventive management practices).
 - Identify the sources of impairment and reference the basis for that information (watershed-based plan, TMDLs, water quality data collected under permits, etc.).
- Articulate **how** the proposed project will alleviate those issues. **Each practice should tie into the Project Activities & Tasks (Section 5.) and Budget (Section 10.).**
 - Describe past work performed within the watershed to address existing impairments (specify a certain time period) and how the proposed project will build upon that work.
 - Introduce all proposed activities related to the current project and summarize how they are linked to the watershed-based plan. The summary will also tie into details developed in Section 5. Project Activities.



- Explain what measures will be designed and how they will be applied to evaluate the progress and effectiveness of the project, including water quality monitoring.
- Include relevant information about **why** the proposed project activities are appropriate for the watershed, including any pertinent land-use information. Reference supporting documents or materials that demonstrate the need for the proposed project as an attachment in Section 12. at the end of the application:
- Specify the organizations, agencies, individuals and/or local non-profit watershed groups established prior to the application **who** will function as staff, partners, contractors (if known), and/or in-kind match volunteers. Summarize the contribution they will make toward achieving the project goals.

Supporting Multi-Phase or Other On-Going Projects

If the proposed project is part of a continuing or multi-phase strategy, briefly describe those efforts and their results in this section. Be clear if previous phases of a proposed project were funded by 319(h) grants.

Additionally, include information about other on-going nonpoint source management activities in the watershed, whether they represent an effort by the applicant or another party. Describe how the proposed project will support and/or coordinate with other programs in order to leverage efforts across the watershed as well as across jurisdictional boundaries. Examples include stormwater management programs, NPS education and outreach programs, watershed-based plan implementation projects, other Section 319(h) projects, and other NPS activities.



All management practices implemented with Section 319(h) **Federal or non-federal matching funds shall be operated and maintained for the expected lifespan of the specific practice and in accordance with commonly accepted standards.**

Addressing Adverse Hydrologic Impacts of Impervious Surfaces

Include local administrative and/or managerial mechanisms that will prevent and/or correct the adverse hydrologic impacts of increased impervious surfaces in a watershed. Applications must propose to develop and/or implement items such as stream buffer requirements wider than state minimums; local or regional low-impact development or quality growth ordinances; natural resource conservation and/or open space plans; impervious surface limits; stormwater or other nonpoint source utilities; or other mechanisms that will ensure long-term success by minimizing the potential impacts of future hydrologic modifications.



Environmental Benefits in Addition to Addressing Nonpoint Source Impairments

Describe any environmental benefits the proposed project may produce in addition to managing nonpoint sources of pollution. The applicant must clearly explain how project activities aimed at restoring or improving water quality would also result in secondary benefits or additional outcomes. Examples include, but are not limited to, environmental justice/equity; water or energy conservation; air quality protection; wildlife habitat recovery or connectivity; stream flow profile; endangered species welfare; climate change mitigation; carbon footprint reduction; protection of healthy streams; and others.

Implementing Management Practices Identified in an Appropriate Regional Water Plan

If the proposed project intends to implement management practices identified in a Regional Water Plan (RWP) that includes the project watershed, specify the coded sections (WW, WQ, etc.) of the RWP that reference the practices. Outline how the Water Planning Council will make the materials and methods developed through the project available to communities in the region for water quality protection and improvement.

5. Project Activities

USE FORMAT SHOWN IN EXAMPLE PROJECT ACTIVITIES TEMPLATE ON PAGES 20-21

The Project Activities should summarize tactics, detail tasks, and describe outcomes and deliverables that will achieve the Project Goals. In addition, Measures of Success will be established to assess the effectiveness of each task.



Milestones and/or implementation practices described in sections of the 2014 revision of the *Georgia Nonpoint Source (NPS) Management Program* must be referenced in the Project Activities. Access the *NPS Management Program document* at <http://epd.georgia.gov/section-319h-georgias-nonpoint-source-implementation-grant>

Project Activity: *Identify each main tactic necessary for accomplishing the project. See Tables 3 and 4 for lists of examples of activities and best management practices. Please note these tables are provided for guidance purposes only.*



Reference each Project Activity to the appropriate corresponding milestone(s) and/or implementation practice(s) in sections of the 2014 NPS Management Program. Cite the section, subheading and page number. Summarize the milestone, goal or practice that corresponds with the Project Activity (see Example on pages 20-21).

Tasks: *Describe in detail the specific tasks necessary to complete each activity using available resources, and provide quantifiable information where appropriate. Number Tasks in continuous sequence (1, 2, 3, 4, 5, 6, etc.) and correlate Tasks directly to the Project Budget and Implementation & Drawdown Schedule.*

Load reductions models must be included as a task for all applicable BMP projects.

Deliverables: *Identify all items that will be delivered as a result of each task. Provide quantifiable information where appropriate. Examples of deliverables include, but are not limited to: subcontracts, permits, design specs, water quality monitoring data, maps, reports, pictures, manuals, educational materials (brochures, videos, etc.), and signage.*

Measures of Success: *Describe what evaluation criteria will be applied to each task to assess the appropriateness and effectiveness in accomplishing the associated activity. Criteria should target both quantifiable and qualitative results.*

Include Quarterly Progress Reports and Final Close-Out Report as the last Project Activity with “[Submit Quarterly Reports and Invoices](#)” and “[Submit Close-Out Report and Final Invoice](#)” as two separate tasks with deliverables and measures of success.

Both these reports as well as the invoices will be completed using template formats supplied by GAEPD once the grant funds are awarded and the project implementation contract is executed.

Quarterly Reports and Invoices will be required for the length of the project to ensure adherence to the Implementation and Drawdown Schedule and to proactively address any concerns in a timely manner. Grant recipients will also verify and confirm in-kind services and resources contributed by project partners in Quarterly Reports.

For more information on Measures of Success, see Appendix B.



EXAMPLE OF PROJECT ACTIVITIES TEMPLATE

Project Activity: Reach out to representatives & convene 3 meetings of Watershed Partnership.
NPS Management Program, 319 Grants, Key Stakeholders, Funding, page 92: *Priority watershed management approach that promotes a high level of stakeholder involvement & uses the expertise & authority of multiple agencies.*

Task 1: Introduce project to appropriate watershed partners.

- **Deliverables:** Outreach letters/emails/phone calls; preliminary meeting schedules
- **Measures of Success:** Contact 75% of ongoing & potential partners within watershed

Task 2: Convene 3 meetings to identify organization/agency responsible for each implementation task & to review progress reports.

- **Deliverables:** Notices, agendas, presentations, minutes, hand-outs, sign-in sheets
- **Measures of Success:** Meeting attendance by 50% of Partnership

Project Activity: Targeted Monitoring.

NPS Management Program, Water Quality Monitoring, Program Issues, page 79: *Identifying appropriate corrective actions, including BMPs, to restore water quality.*

Task 3: Finalize QA/QC Monitoring Plan for post-BMP monitoring based on GAEPD guidance & submit to GAEPD for approval.

- **Deliverables:** Targeted Monitoring Plan approved by GAEPD
- **Measures of Success:** Monitoring sites that best provide data to track post-BMP water quality trends

Task 4: Conduct one water quality monitoring training workshop to certify in-the-field partners.

- **Deliverables:** Notices, training presentation, sign-in sheets, graded certification exams
- **Measures of Success:** Certification of at least two workshop participants

Task 5: Conduct post-BMP monitoring.

- **Deliverables:** Post-BMP water quality data collected & analyzed for last 9 months
- **Measures of Success:** Record reduction of impairment loadings by 40%

Project Activity: Install agricultural BMPs based on contracts with 60% or minimum of 10 producers.
NPS Management Program, Agricultural Nonpoint Source Program, Long Term Goal 3 page 45: *Facilitate activities to reduce NPS pollution by 2016.*

NPS Management Program, Key Components, Interim Progress Toward Restored Water Quality and Hydrology, page 148: *Percentage of watershed landowners cooperating in the program by implementing targeted water quality practices.*

Task 6: Identify and reach out to agricultural producers within the watershed.

- **Deliverables:** Notices; meeting agendas, presentations, sign-in sheets, hand-outs
- **Measures of Success:** Make contact with 100% of agricultural producers within watershed

Task 7: Recruit & contract with 60% or minimum of 10 producers within watershed.

- **Deliverables:** Signed BMP implementation schedules; signed cost-share commitments; signed Conservation or Comprehensive Nutrient Management Plans
- **Measures of Success:** 100% completion of necessary schedules, commitments & plans

Task 8: Install BMP systems according to NRCS specifications on a minimum of 10 properties.

- **Deliverables:** Maps; pre- & post-BMP installation pictures
- **Measures of Success:** Signed Certificates of Completion/Payment Requests for BMP systems installed on a minimum of ten (10) properties according to NRCS specifications

CONTINUED ON PAGE 21

Project Activity: Install septic system BMPs based on contracts with 25% or minimum of 5 property owners within the watershed in accordance with the Watershed-Based Plan.

NPS Management Program, Onsite Sewage Disposal System (OSDS), Long Term Goal 5, page 133: *Working with Georgia Department of Public Health and Georgia Onsite Wastewater Association, assist CBHs and local governments in development of OSDS post-installation management strategies that would include funding mechanisms for OSDS maintenance, inspection, and repair.*

Task 9: Identify and reach out to residential & institutional property owners within the watershed.

- o Deliverables: Notices; meeting agendas, presentations, sign-in sheets, hand-outs
- o Measures of Success: Make contact with 100% of property owners within watershed

Task 10: Recruit & contract with 25% or minimum of 5 property owners within watershed.

- o Deliverables: Signed inspections by appropriate agency; signed NOIs & cost-share commitments with property owners
- o Measures of Success: 100% completion of necessary inspections, NOIs & commitments

Task 11: Procure qualified contractors to pump out, repair or replace septic systems.

- o Deliverables: RFPs issued according to Lead Organization's procurement policies & practices; BMP solutions/designs/specifications that comply with requirements of appropriate agency; permits & certificates
- o Measures of Success: Contracts awarded according to Lead Organization's procurement policies & practices; permitting, supervision & inspection of installations performed by appropriate agency

Task 12: Install septic system BMPs according to specifications of appropriate agency on a minimum of 5 residential or institutional properties.

- o Deliverables: Maps, pre- & post-BMP installation pictures
- o Measures of Success: Completion of a minimum of 5 septic system BMPs

Project Activity: Conduct Educational Outreach.

NPS Management Program, Outreach and Education, Long Term Goal 4, page 105: *Realize stewardship potentials as the opportunities arise.*

Task 13: Conduct 2 workshops/field days – one at agricultural & one at septic system BMP site.

- o Deliverables: Notices; agendas; hand-outs; presentations; sign-in sheets; completed before & after surveys; pictures
- o Measures of Success: Attendance of 20 participants per workshop; 35% improvement in before and after workshop knowledge assessments

Project Activity: Estimate load reductions using Region V or STEPL or other acceptable models.

NPS Management Program, Key Components, Statewide Milestones for Water Quality Improvement, NPS Pollutant Load Reduction, page 149: *Annually review information from NPS staff and project stakeholders for NPS load reductions of sediment, nitrogen & phosphorus; and include information in NPS annual report and GRTS.*

Task 14: Quarterly load reduction reports for each BMP (submitted with Payment Requests).

- o Deliverables: Load reduction reports for agricultural (10 producers) & septic system (5 property owners) BMPs (submitted with Payment Request)
- o Measures of Success: Minimum 10% sediment load reduction; 10% phosphorus load reduction; 20% nitrogen load reduction

6. Roles and Responsibilities of Participating Organizations

Participating Organizations, subcontractors and stakeholders can fulfill a variety of functions. Assigned roles can include project coordinator, technical expert, member of steering / advisory committee, and/or general stakeholder who attends infrequent outreach or educational events to learn about and comment upon the project. **Make sure that the organization or individual is qualified and capable of performing the duties and responsibilities associated with the role assigned to them.**

Describe the roles and responsibilities for all Participating Organizations, subcontractors and stakeholders, clearly delineating the duties and accountabilities assigned to each. In particular, identify whether they will serve as general stakeholders or in a more committed capacity. **Spell out all time, services or resources that each will contribute as match (cash or in-kind) to the project** and provide detailed descriptions of the different expectations of each. **Make sure that all contributions from Participating Organizations are appropriate to the Project Activities, Budget, and Implementation & Drawdown Schedule.**

REQUIRED LETTERS OF COMMITMENT

All Participating Organizations **must provide a letter of commitment** clearly stating their understanding of their expected roles, contributions, and responsibilities. If a Participating Organization plans to provide match, either as cash or in-kind services, these letters must also describe the amount or value of the match to be supplied.

NOTE: Private companies that will be reimbursed as paid sub-contractors on the project are not considered to be Participating Organizations.

Applicants must include all relevant information and utilize the Participating Organizations table provided in the application template, as shown in the Example below:

EXAMPLE	
Organization Name	Specific Responsibilities
<i>(Lead Organization)</i>	<ul style="list-style-type: none"> • Execute grant contract with GAEPD • Account for/contribute to 40% <i>(state if greater)</i> of total project costs in matching expenses or in-kind services • Pay funds to appropriate contractor(s) and vendor(s) • Request reimbursements from GAEPD on a quarterly basis • Track the progress of project activities completed, grant funds expended, and match values provided in accordance with the implementation & drawdown schedule • Complete and submit quarterly progress reports and invoices to GAEPD by January 15th, April 15th, July 15th, and October 15th of each project year • Complete & submit close-out report at conclusion of project • <i>(Form Project Advisory/Steering Committee)</i> • <i>(Hire a full-time project manager)</i> • <i>(Update maps and other documentation as required)</i> • <i>(Conduct monitoring training & education events)</i> • (ADD OTHERS AS APPROPRIATE)

GAEPD	<ul style="list-style-type: none"> • Provide 60% of total project costs • Review and approve project deliverables • Participate in meetings, as appropriate • Review and assist as needed with 319(h) Grant protocols • Provide project oversight and contract management • Provide monitoring guidance and training
<i>(Participating Organization)</i>	<ul style="list-style-type: none"> • Serve on Project Advisory/Steering Committee • Contribute in-kind services to match as described in attached Letter of Commitment • <i>(Identify project implementation partners)</i> • <i>(Provide technical assistance, including maps and land use surveys in the watershed)</i> • <i>(Conduct post-BMP water quality testing)</i> • <i>(Assist in preparation of load reduction models)</i> • (ADD OTHERS AS APPROPRIATE)
<i>(Participating Organization)</i>	<ul style="list-style-type: none"> • General Stakeholder • Letter of Commitment describing functions • <i>(Assist with outreach activities to agricultural producers)</i> • <i>(Assist with BMP Schedules and Management Plans)</i> • <i>(Assist with field days, workshops and other activities)</i> • (ADD OTHERS AS APPROPRIATE)
<i>(Local Governments)</i>	<ul style="list-style-type: none"> • Serve on Project Advisory/Steering Committee • Render in-kind services to match as described in attached Letter of Commitment • <i>(Provide technical assistance with stormwater BMPs)</i> • <i>(Assist with preparation of load reduction models)</i> • (ADD OTHERS AS APPROPRIATE)
<i>(Regional Water Council)</i>	<ul style="list-style-type: none"> • Serve on Project Advisory/Steering Committee • <i>(Provide opportunities for leveraging efforts from other funding sources)</i> • <i>(Provide technical support for BMP's)</i> • (ADD OTHERS AS APPROPRIATE)

7. Project Location

a) Project Area Description and Map: *Identify the approximate size and location of the proposed project area on a map (embedded in application or as separate electronic file). Be sure to include the ENTIRE project area on one map, even if the project will take place in two or more subwatersheds.*

b) Project Area Size (Acres):

c) County or Counties:

d) Land Uses within the Watershed(s) or Project Area (Percentages): *Applicants MUST provide the source and date of land use categories data to verify the distribution below. Such information can generally be found within applicable Watershed Improvement, TMDL Implementation or County Comprehensive Land Use Plans.*

Agricultural	_____
Commercial Forestry	_____
Urban/Residential	_____
Mining/Extraction	_____
Forest/Natural Areas	_____
Water/Wetlands	_____
TOTAL	<u>100%</u>

Data Source & Date: _____

Hydrologic Unit Codes (HUCs) are watershed units that define watershed boundaries. Additional information about watersheds (e.g. 8-digit HUC boundaries, rivers and streams in a watershed, land characteristics, river corridor and wetlands restoration efforts, index of watershed indicators, etc.) may be accessed through the USEPA webpage:
<http://cfpub.epa.gov/surf/locate/index.cfm>.

The USGS 10-digit HUC map for Georgia may be ordered from the USGS Science Information Center (ESIC) at 1-888-275-8747 or at <http://www.usgs.gov>.

e) Hydrologic Unit Code(s), Watershed Name(s), and Priority Watershed(s): *Indicate the HUC 10 or 12 size(s) most appropriate for the project scope. Provide watershed name and check or put an X after "Priority" if the project area is located in a priority watershed. Repeat the format as needed.*

HUC #: _____ Name: _____ Priority: _____
HUC #: _____ Name: _____ Priority: _____



FIND A MAP & LIST OF PRIORITY HUC-12 WATERSHEDS IN APPENDIX F

**PROJECTS THAT OCCUR WITHIN THE PRIORITY HUC-12 WATERSHEDS
MAY RECEIVE PRIORITY CONSIDERATION FOR FUNDING**

8. Nonpoint Source Pollution Impairments or Healthy Waters

Funding criteria applied to all 319(h) grant proposals include addressing either impaired or healthy Category 1 waterbodies on Georgia's DRAFT 2014 Section 305(b)/303(d) List of Waters. Proposals directed at a healthy Category 1 waterbody must identify the water quality concern and meet criteria specified in the USEPA *Healthy Watersheds Initiative*. Please find more information on the USEPA's *Healthy Watersheds Initiative* at www.epa.gov/healthywatersheds/

a) Section 305(b)/303(d) List of Waters: *Fill in all columns in the chart below with information targeted by the project activities. Add rows as necessary.*

Include ONLY those listed segments within the project area that will be directly targeted by project activities. These segments should also be referenced in the Project Goals and Background. The DRAFT 2014 Section 305(b)/303(d) List of Waters can be found online at: <http://epd.georgia.gov/georgia-305b303d-list-documents>

Water Body Segment Name and (Segment Length Miles) or (Embayment Acreage)	County Location(s)	Criterion Violated or Water Quality Concern (Healthy Water)	Listing Status Category 4a, 5 or 1

b) Secondary Pollutants(s):

- *Ancillary or additional nonpoint source pollutants or water quality impairments in the project area which may be positively impacted by project activities, but are not directly targeted. These secondary NPS impairments may or may not be listed on Georgia’s DRAFT 2014 Section 305(b)/303(d) List of Waters; or*

EXAMPLE

Fecal coliform may be the **Criterion Violated** or water quality concern targeted an agricultural BMP implementation project. **Secondary** pollutants or impairments that may be controlled by BMP installations include: **sediment, nutrients and/or dissolved oxygen.**

- *Other nonpoint source impacts, pollutants or water quality threats that are NOT on Georgia’s DRAFT 2014 Section 305(b)/303(d) List of Waters, but that have been thoroughly documented by the applicant.*

Acceptable forms of documentation include pictures, local or regional watershed-based plans (not necessarily associated with TMDL), QA/QC water quality data, environmental impact research or studies, habitat or ecological assessments, and public health alerts or complaints, etc.

9. Monitoring

Applicants can include water quality monitoring after BMPs have been installed in 319(h) grant projects for the following purposes:

- Collecting and qualifying samples for 305(b)/303(d) List of Waters assessments. Data would show whether the stream is meeting State water quality standards for the criterion violated and can be restored to supporting its designated use (Sample Quality Assurance Plan).
- Evaluating effectiveness for new technology BMPs only (Targeted Monitoring Plan).
- Tracking trends in water quality improvement or degradation (Targeted Monitoring Plan).



All the monitoring options above must be scheduled during the last nine (9) months of the project in order to give BMPs enough time to function. Sampling sites must be located downstream of BMP installations or clusters in order to demonstrate water quality improvement.

GAEPD encourages monitoring for List of Waters assessments as well as post-installation water quality monitoring to track trends in water quality improvement. However, there is no required water quality monitoring under Section 319(h) Grants administered by GAEPD.

For monitoring expenses to be eligible for reimbursement or as in-kind match, **the application must include a DRAFT Quality Assurance/Quality Control (QA/QC) Monitoring Plan** for GAEPD to review and approve. The plan can be either a Targeted Monitoring Plan or a Sampling Quality Assurance Plan (SQAP).

**Monitoring activities that can be reimbursed by
319(h) funds or applied as match are described in
APPENDIX C MONITORING GUIDANCE**

**For instructions on how to develop a QA/QC Monitoring Plan and perform water quality
monitoring, request GAEPD guidelines
“How to Plan for and Proceed with 319(h) Grant-Funded Monitoring”
from the Grants Unit staff (see page 3).**

The QA/QC Monitoring Plan must identify the pollutant(s) or water quality concern(s) to be monitored, such as bacteria, dissolved oxygen, pH, conductivity, habitat, or sediment. In addition, the monitoring design must describe the stream name, the time line and frequency schedule for sample collection, the number and locations of sites (upstream, downstream, and **latitude/longitude coordinates**), and the number of samples to be collected. Collection and analysis quality assurance/quality control must specify procedures, materials and equipment. Training and names / affiliations of field personnel must also be included.



The list of sampling sites must include the site monitored by GAEPD where data was collected for listing assessments.

In situations where up-to-date water quality monitoring data is available, please provide all relevant data summaries as an attachment to the application.

10. Project Budget

INDIRECT CHARGES ARE NO LONGER ELIGIBLE AS PROJECT COSTS FOR FEDERAL REIMBURSEMENT. However, 100% of the indirect costs associated with the project may be applied toward the match requirement, if applications can document the federally-approved indirect cost rate for the lead organization.

Make sure that expenditures (i.e. salary, fringe, materials and supplies), for both federal and match, are prorated as a percentage of what will be applied specifically to the project.

Confirm Sources and Values of Non-Federal Match

Identify the sources of non-federal match in the Item Class Categories of the Project Budget, making sure the sources correlate with in-kind or cash commitments from specific Participating Organizations.

In addition, applicants must sign and date a one-sentence Disclaimer found at the bottom of the Project Budget template in the application assuring that match contributions are from non-federal sources and do not overlap current or future projects funded by either 319(h) or other federal grants.

- Applicants MUST use the budget format included in the application template.
- All project proposals are limited to \$400,000 in requested federal funding.

Delineate and Justify Project Costs Based on Actual Project Activities and Tasks

Delineate proposed federal and non-federal matching expenditures by Item Class Categories (A-G) in sufficient detail to justify all project costs.

Project Activities and Tasks must correspond directly to the break-down of budget expenditures in the Item Class Categories. For example, if a turbidity meter is listed in the Equipment or Supplies item class categories, there must be a Project Task that requires the purchase of a turbidity meter – i.e. TSS monitoring.

Under the Contractual item class category, any single expenditure equal to or over \$30,000 must be broken-down into amounts that add up to the total. Attach a copy of the bid request, job announcement, or contractual agreement, as available, to the application.

Applicants must also supply a **narrative related to actual Project Activities and Tasks that justifies the expenses covered by federal dollars and match values in appropriate Item Class Categories.** The Narrative Justification template will be found in the application at the end of Section 10. Project Budget.

Narrative Justification for Item Class Categories:

- **Personnel (A) Budget Description:** *Personnel budget items must include the position title, salary rate, percentage of full-time equivalent (FTE), resulting dollar amount and number of years to be reimbursed for each position cited, regardless of funding source.*
Narrative Justification (A): *Summarize responsibilities and duties as related to Project Activities and Tasks for each position cited, regardless of funding source.*



Describe skills, experience and qualifications of the individual assigned each position that show them to be capable of performing the associated Tasks.

- **Fringe Benefits (B) Budget Description:** *Fringe benefit budget items must include the position title, percentage of FTE, resulting dollar amount, fringe rate (as a percentage of salary), and number of years to be reimbursed for each position cited, regardless of funding source.*
- **Travel (C) Budget Description:** *Travel budget items should be clearly linked to the individual traveling by position title, and the type and purpose of travel. Calculate the mileage by multiplying the number of expected travel miles by the current federal mileage rate.*

Narrative Justification (C): *Correlate travel budget items with a specific project activity and task. NOTE: Out-of-state travel must be pre-approved by GAEPD and is dependent upon reason for travel and cost.*

For current information on the **Federal Mileage Rate**, please visit the following website:
<http://www.shrm.org/hrdisciplines/benefits/articles/pages/2015-standard-mileage-rates.aspx>

- **Equipment (D):** *All equipment budget items and costs MUST be itemized separately, and associated with a specific activity and task.*
Narrative Justification (D): *Include brief descriptions, specifications or actual quotes to justify the proposed costs. The term “Equipment” applies only to items with a useful life of more than one (1) year and an acquisition cost equal to or greater than \$5,000. Any single equipment item purchased at a cost over \$5,000, regardless of funding source, must be tracked until its value depreciates below \$5,000.*
- **Supplies (E):** *Summarize items by category (monitoring, administrative, printing, etc.) when each category totals less than \$2,000.*
Narrative Justification (E): *MUST break down categories of Supplies into individual items if collective total is more than \$2,000. Explain how Supply items or categories support actual project activities and tasks. Items estimated to cost under \$5,000 and/or with less than one (1) year of useful/shelf life should be budgeted as Supplies.*
- **Contractual (F):** *Contractual budget items represent formal financial relationships between the lead organization and subcontractors, and must identify the type of subcontractor and the applicable project activities.*
Narrative Justification (F): *Insert a detailed budget breakdown for each Contractual item equal to or greater than \$30,000. Include a description of job specifications and contractor qualifications required to accomplish the related project activities and tasks. Attach a copy of the bid request, job announcement, or contractual agreement, as available, to the application.*



LEGAL REQUIREMENTS & ALLOWABLE COSTS

Section 319(h) Nonpoint Source Implementation Grant projects must conform to all applicable legal requirements & allowable costs in the OMB's *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* at Title 2 CFR Part 200 and Part 1500, effective December 26, 2014.

http://www.ecfr.gov/cgi-bin/textidx?SID=cda0bdef668241883294f8587b2c1163&mc=true&tpl=/ecfrbrowse/Title02/2tab_02.tpl

- **Construction (G):** *GAEPD Section 319(h) Grant funds CANNOT be applied to this category, which refers to infrastructure and related building costs.*
- **Other (H):** *Other budget items and costs must be itemized separately.*
Narrative Justification (H): *Specify expenses (either dollar amount or percentage of totals) allocated to proposed project that are eligible for federal reimbursement (rent, utilities, telecommunications, financial services, audits, etc.).*



Indirect Charges (J): *GAEPD Section 319(h) Grant federal funds CANNOT be applied to this category. However, 100% of a **federally-approved indirect cost rate** associated with the project may be applied to match.*

Narrative Justification (J): *Identify what specific indirect costs **will be associated with the proposed project**. Attach documentation supporting the federally-approved indirect cost rate for the lead organization to be able to apply 100% of the approved rate **associated with project** towards the match requirement.*

EXAMPLE PROJECT BUDGET

Item	Item Class Category	319(h) Grant Funds (60% Maximum)	Non-Federal Matching Funds (40% Minimum)	Total
A	Personnel: One (1) Project Manager - 0.50 FTE (\$35,000/year) x 3 years Description of Duties: Communication and collaboration with project partners and project oversight	\$52,500	\$0	\$52,500
	One (1) Technician - 0.20 FTE (\$25,000/year) x 3 years Description of Duties: Conduct water quality monitoring	\$0	\$15,000	\$15,000
	Sub Total:	\$52,500	\$15,000	\$67,500
B	Fringe Benefits: One (1) Project Manager – 0.50 FTE at 30% x 3 years	\$15,750	\$0	\$15,750
	One (1) Technician - 0.20 FTE at 30% x 3 years	\$0	\$4,500	\$4,500
	Sub Total:	\$15,750	\$4,500	\$20,250
C	Travel: Staff Position: Project Manager 730 miles x \$.575/mile Purpose of Travel: Meetings, Field Days, Site Visits	\$420	\$0	\$420
	Staff Position: Technician 1,217 miles x \$.575/mile Purpose of Travel: Water Quality Monitoring	\$700	\$0	\$700
	Sub Total:	\$1,120	\$0	\$1,120
D	Equipment: Laboratory Equipment: Fluorometer & accessories Purpose/Use: Optical brightener testing	\$0	\$6,600	\$6,600
	Sub Total:	\$0	\$6,600	\$7,600
E	Supplies: Education & Outreach Supplies: Printing Purpose/Use: Brochure, flyers, mailer inserts, signage	\$2,579	\$0	\$2,579
	Supplies: Office Supplies Purpose/Use: Meetings, project oversight, accounting	\$0	\$633	\$632
	Sub Total:	\$2,579	\$633	\$3,212
F	Contractual: Contractor Name: ABC, Stream Restoration, Inc. Description of Duties: Stream Bank Stabilization (600 linear feet)	\$62,500	\$62,500	\$125,000
	Rain Garden Systems (2 Systems @ \$10,000)	\$12,000	\$8,000	\$20,000
	Contractor Name: Agricultural Producers TBD Description of Duties: Install BMP contracts @ \$7,500 on 10 Ag properties	\$45,000	\$30,000	75,000
	Sub Total	\$119,500	\$100,500	\$220,000
G	Construction: Does not apply to GAEPD Section 319(h) Grants	N/A	N/A	N/A
H	Other: Audit	\$0	\$400	\$400
	Sub Total	\$0	\$400	\$400
I	Total Direct Charges: (Sum of A-H)	\$191,449	\$127,633	\$319,082

Item	Item Class Category	319(h) Grant Funds (60% Maximum)	Non-Federal Matching Funds (40% Minimum)	Total
J	Indirect Charges: Indirect Charge Rate (0% Eligible for Reimbursement with Federal Dollars)	N/A	\$0	\$0
K	Total: (Sum of I and J)	\$191,449	\$127,633	\$319,082

Disclaimer: Match contributions are from non-federal sources, and do not overlap current or future projects funded by either 319(h) or other federal grants.

Signed: _____ **Title:** _____ **Date:** _____

Organization: _____

Narrative Justification for Item Class Categories:

- **Personnel (A):**
Narrative Justification (A):
- **Fringe Benefits (B):**
- **Travel (C):**
Narrative Justification (C):
- **Equipment (D):**
Narrative Justification (D):
- **Supplies (E):**
Narrative Justification (E):
- **Contractual (F):**
Narrative Justification (F):
- **Construction (G):** *GAEPD Section 319(h) Grant federal funds CANNOT be applied to this category, which refers to infrastructure and related building costs*
- **Other (H):**
Narrative Justification (H):
- **Indirect Charges (J):** *GAEPD Section 319(h) Grant federal funds CANNOT be applied to this category. However, 100% of a federally-approved indirect cost rate **associated with the project** may be applied to match.*
Narrative Justification (J):

11. Project Implementation and Drawdown Schedule



Please note that the template is coded with formulas to automatically calculate the quarterly percentages for both federal dollars spent (Row 4) and match accrued (Row 7).

All project proposals must include a Project Implementation and Drawdown Schedule that details expected execution of tasks, state and federal reporting requirements, expenditure of

funds and accumulation of match. **Note that 319(h) projects CANNOT exceed three (3) years in duration** and that the three years are divided into quarters that progress consecutively from Quarter #1 to Quarter #12. The Project Implementation and Drawdown Schedule includes the following items:

- **Project Timeline in Quarters (Row 2):** Based on the 3-year limit, the Schedule template assumes awarded projects will be contracted in October 2016 and completed by September 2018. **For the purposes of the application, all applicants MUST base their timeline on an October 2016 start date.** If a proposed project is expected to be completed prior to September 2018, the remaining columns should be left blank. **Once grant funds are awarded, the Schedule can be reconfigured based on actual start and end dates.** .

- **Federal Drawdown (Rows 3 & 4):** Applicants **MUST** estimate the amount of 319(h) Grant funds they will spend each quarter. The “Initial” column indicates that no grant funds can be expended prior to the contract execution date, and the “Final” column indicates that by the end of 12 quarters all grants funds are expected to be spent.



Once each dollar amount is entered manually into Row 3, the template will calculate the percentage of federal dollars spent in Row 4 for you.

- **Match Expenditures (Rows 6 & 7):** Applicants must also estimate the rate at which they expect to accrue match dollars. The “Initial” column indicates that no match funds can be accrued prior to the contract execution date, and the “Final” column indicates that by the end of 12 quarters, 100 percent of the match commitment will be met.



Once each dollar amount is entered manually into Row 6, the template will calculate the percentage of match accrued in Row 7 for you.

- **Milestones/Tasks (Rows 11-111):** This section details the timeframe in which each task identified in Section 5 is expected to be completed.

- **Contract Execution:** This section has already been completed in the Template, and should remain as is.
- **Tasks:** Applicants should include all tasks and task numbers from Section 5. It may be appropriate to shorten the task description to fit within the allotted space in the template, but the intent of the task should remain clear. Applicants should “fill-in” the appropriate number of cells, creating a line that depicts the expected length of each task in months (tasks that will require less than one month should be represented by the filling in of an entire month cell). Applicants are encouraged to color code their tasks by suitable categories. For instance, in the “Example Schedule”, meetings are color-coded in purple and tasks that will result in products deliverable to GAEPD are color-coded in orange. A key should be provided.
- **Federal/State Quarterly Progress Reporting Requirements:** 319(h) Grant award recipients will be required to submit Quarterly Reports and Invoices for the length of the project to ensure adherence to the Implementation and Drawdown Schedule and to proactively address any concerns in a timely manner. These reporting requirements have already been completed in the template (color coded in pink) and should remain as they are.

- **Contract Close-Out:** *This section has already been completed in the template, and should remain as is. The contract close-out date can be adjusted as necessary once grant funds are awarded.*

12. Project Attachments

Reference all digital supporting documents as attachments in this section. Assign appropriate designations (Appendix, Attachment, Exhibit, Figure, Table, or Map), titles, and sequential numbers (1, 2, and 3) or alphabetical letters (A, B, C) to the documents. Label all files appropriately so that they can be easily associated with the Application Packet. **Electronic files of the application and all supporting documents must be in their FINAL version, and file labels must correspond with the titles and numbers/letters referenced in this section.**



APPENDIX A

CHECK LIST OF USEPA'S NINE ELEMENTS OF WATERSHED PLANNING

ELEMENT (A): IDENTIFICATION OF POLLUTANT & IMPAIRMENT CAUSES & SOURCES

- The plan identifies the pollutant *causes* and *sources* that will need to be managed to achieve the load reductions identified in a TMDL, or elsewhere in the plan.
- The plan addresses the *causes* and *sources* of other water quality, environmental, natural resource or stakeholder issues and concerns that are *not* addressed by a TMDL; but, *may be* problematic and are documented with supporting claims, studies, water quality data or other evidence.

ELEMENT (B): POLLUTANT LOAD REDUCTION ESTIMATES EXPECTED FROM BEST MANAGEMENT PRACTICES (BMP)

- The plan documents load reductions needed to achieve a TMDL.
- The plan describes a reasonable approach to *estimate* pollutant load reductions and includes assumptions and limitations.
- The plan *estimates* expected potential load reductions from BMP for each pollutant cause or source, or groups of similar sources that need to be managed.

ELEMENT (C): NONPOINT SOURCE (NPS) BEST MANAGEMENT PRACTICES (BMP) & CRITICAL TARGET AREAS FOR BMP INSTALLATION

- The plan provides recommended locations where *potential* BMPs may be implemented.
- The plan identifies *potential* BMPs to be installed in “critical” NPS loading areas.

ELEMENT (D): FINANCIAL & TECHNICAL ASSISTANCE TO IMPLEMENT BMP, ASSOCIATED COSTS & SOURCES OF FUNDS

- The plan identifies sources and amounts of the funding that will be needed to implement the BMP.
- The plan identifies authorities and technical assistance that will be relied upon to implement the BMP.

ELEMENT (E): EDUCATION & OUTREACH TO ENCOURAGE PUBLIC PARTICIPATION IN PLAN IMPLEMENTATION

- The plan provides an information/education component that will enhance public understanding of the plan and encourage their early and sustained participation in project development and plan implementation.

ELEMENT (F): BMP IMPLEMENTATION SCHEDULE

- The plan provides a reasonably expeditious schedule for implementing Best Management Practices (BMP) in (C) above.

ELEMENT (G): INTERIM MILESTONES TO DETERMINE PROGRESS OF BMP IMPLEMENTATION

- The plan provides a list or description of interim milestones for determining progress of NPS management practices or whether BMP are being implemented.

ELEMENT (H): SET OF CRITERIA TO MONITOR AND ASSESS BMP

- The plan describes a set of criteria, including water quality monitoring as well as hydrological, environmental, economic and social impacts, to determine whether pollutant controls or management practices are achieving loading reductions over time.
- If substantial progress is not being made towards attaining water quality standards, the plan includes a provision that uses the established criteria to determine:
 - Whether improvements or adjustments need to be made to existing BMPs; or
 - Whether new BMPs need to be added to replace existing BMPs.

ELEMENT (I): COMPONENT TO DETERMINE PLAN IMPLEMENTATION EFFECTIVENESS

- The plan provides a component to evaluate the effectiveness of efforts to implementation the plan over time measured against the criteria established under item (H).
- The evaluation component can also be applied to determine
 - Whether the watershed-based plan needs to be revised; or
 - Whether the NPS TMDL needs to be revised, if a NPS TMDL has been established.

APPENDIX B

DETERMINING MEASURES OF SUCCESS

The Measures of Success are critical components of a competitive project proposal. They provide the criteria (what & how) to determine if the Tasks are being accomplished in order to achieve the Project Activities. The Measures of Success also demonstrate that an applicant has a clear understanding of the expected efforts and results involved with each Task.

When developing the Project Activities, applicants should (1) identify **what** criteria will demonstrate the successful outcome of each specific Task, and (2) determine **how** to track those criteria. These criteria should include both qualitative and/or quantitative measures as appropriate. For certain BMP implementation Tasks, the Measures of Success will be numeric, e.g. expected load reductions from primary and secondary pollutants. In addition, tracking those load reductions will involve modeling to get numeric values. For other projects, the Measures of Success will require more creativity and thought. Applicants are highly encouraged to provide metrics that will demonstrate an improved understanding as an actual Measure of Success. For example, generally accepted for educational outreach Tasks would be improved understanding of nonpoint source pollution issues throughout the watershed. And, one way to track that change in behavior or knowledge might be to conduct an educational survey before and after information or instruction materials are disseminated or workshops are conducted.

EXAMPLE
Be Specific! Avoid Generalizations!

- ✓ **Preferred Specific Measure of Success: “A 25% reduction in fecal coliform levels to be determined through water quality monitoring”**
- ✗ **Generalized Measure of Success: “Improved water quality within Reedy Creek”**

Please note that in some instances, the Measures of Success may seem redundant. For instance, if the Task is to develop 10 Comprehensive Nutrient or Conservation Management Plans, the only logical indicators of success may be the documented completion and delivery of said plans. These redundancies are inherent in some Tasks, and applicants will not be penalized in the event they occur within an application.

Examples of Measures of Success per Project Activity are included on Page 36. Please note that projects may include Tasks from many different Project Activities. The example list is not exhaustive and is for guidance purposes only. Applicants should include the Measures of Success they feel are most appropriate for their projects regardless of their location or inclusion on the list.

Project Activity	Examples of Measures of Success
BMP Implementation	<ul style="list-style-type: none"> • Number of landowners contacted • Number of projects contracted (percentage of target) • Percentage of watershed affected by project • Percentage of pollutant sources addressed • Number of appropriate designs/plans • Number of completed BMPs in accordance with appropriate specifications • Estimate of load reductions for nitrogen, phosphorus and sediment • Estimate of water quality and other environmental benefits above and beyond load reductions (based on modeling and/or monitoring) • Effectiveness of BMP(s) in reducing primary and secondary pollutants (based on modeling and/or monitoring) • Number of field days/workshops/etc. and number of participants
Monitoring	<ul style="list-style-type: none"> • Number of monitoring sites • Percentage of watershed for which monitoring data will be collected • Completion of Monitoring Plan in accordance with GAEPD Guidelines • Collection of data in accordance with Monitoring Plan • Summarization of data results (load reductions)
Education and Outreach	<ul style="list-style-type: none"> • Number and description of educational materials produced and distributed • Percentage of watershed population affected by project • Attendance at workshops/meetings/classes by target audience (to be demonstrated through sign-in sheets, agendas, etc.) • Improvement in water quality knowledge (based on survey or test results) • Description of expected behavior change (based on survey results or other methods) • Number of Continuing Education credits earned • Creation of/Participation in Adopt-A-Stream or other volunteer groups • Number of field days/workshops/etc. and number of participants
Technical Assistance	<ul style="list-style-type: none"> • Number/Percentage of participating local governments and other relevant stakeholders • Extent of assistance performed (i.e. number of ordinances developed/implemented; workshops held and attendance; plans completed; monitoring results; etc.)
BMP Demonstration for New Technology Only	<ul style="list-style-type: none"> • Participation of appropriate parties/property owners • Number of installed BMPs • Monitoring results • Achievement towards specific demonstration goals/purpose • Effectiveness of BMP(s) in reducing primary and secondary pollutants • Expected future use of results (i.e. future use of BMP within watershed, etc.) • Number of field days/workshops and number of participants
Regulatory Programs	<ul style="list-style-type: none"> • Establishment of self-funding mechanism within an appropriate timeframe • Number of inspections, reports, plan reviews, citations etc. • Number of ordinances developed/implemented/supported

APPENDIX C

MONITORING GUIDANCE FOR 319(h) PROJECTS

Monitoring Purpose

Monitoring funded by 319(h) Grants will be conducted for the following purposes:

- Provide data to update assessments on the Georgia 305(b)/303(d) List of Waters;
- Track water quality trends (post-BMP installation or during the life of the project to protect healthy waters); and / or
- Evaluate the BMP effectiveness for new technologies only.

Monitoring Types

There are two distinct types of monitoring associated with a 319(h) Grant-funded project:

- 305(b)/303(d) List Monitoring, and
- Targeted Monitoring.

Monitoring Pollutant(s) or Water Quality Concern(s)

- Biological (i.e. Bacteria)
- Chemical/Physical (i.e. DO, pH, Conductivity, Nitrogen, Phosphorus, etc.)
- Habitat (i.e. Macroinvertebrates, Fish IBI, Habitat Assessments)
- Sediment (i.e. Turbidity, TSS, Macroinvertebrates)

Monitoring Plans

Once the monitoring purpose and appropriate, corresponding monitoring type have been determined, a **quality assurance/quality control monitoring plan** will be required that describes the protocol for selecting sampling sites, establishing collection techniques, and conducting water quality analysis:

319(h) grant applications that request funds for monitoring must identify the monitoring purpose and type, reference the preliminary content of a specific monitoring plan in the application proposal, and provide a DRAFT QA/QC Monitoring Plan. A FINAL plan will be required if the project is funded.

Both the Sampling Quality Assurance Plan (SQAP) for 305(b)/303(d) List assessments and the Targeted Monitoring Plan to track trends in water quality will be expected to detail the following:

Watershed Description:

- Stream segment name(s) and location(s), including impaired reaches.
- Pollutant(s) or water quality concerns to be monitored, drainage area delineation, general conditions, jurisdictions, and reasons for monitoring.

Description & Map of Target Areas or Post-BMP Sites to be Sampled:

- Site names and locations (upstream/downstream).
- GAEPD sampling sites where data was collected that put stream on the 305(b)/3903(d) List.

Sampling sites must include the site monitored by GAEPD where data was collected for listing assessments.

Time Line and Frequency Schedule:

- Monitoring time period (month/year through month/year) and frequency of sample collection (weekly or monthly or quarterly)

Procedures:

- Number of samples to be collected during the length of the time line.
- Description of methodology and materials used to collect and analyze samples.
- Names, affiliations and credentials of field and laboratory personnel.

Quality Assurance:

- Dates of monitoring training workshops, and names and affiliations of training instructors.
- Chain of Custody / rules for sample storage, transport, analysis, and disposal.

Data Retention:

- Names, locations and duration of data storage.
- Procedures for reporting and sharing data.

Guidance on 305(b)/303(d) List Monitoring and Targeted Monitoring is available upon request in GAEPD's *How to Plan for and Proceed with 319(h) Grant-Funded Monitoring*.

SAMPLING QUALITY ASSURANCE PLAN (SQAP) FOR 305(b)/303(d) LIST MONITORING

Water quality monitoring for listing assessments involves collecting data from impaired water bodies classified as “Not Supporting” or “Assessment Pending”. 305(b)/303(d) List monitoring is subject to the Quality Control / Quality Assurance requirements described in GAEPD's *Guidance On Submitting Water Quality Data For Use By The Georgia Environmental Protection Division In 305(b)/303(d) Listing Assessments* (October 2002)¹ with references to the GAEPD *Water Protection Branch Quality Assurance Manual* (June 1999, Jan 2005 revision) and Quality Assurance Project Plan. In addition, *Georgia Rules and Regulations for Water Quality Control*² Chapter 391-3-6-.03(13), page 17, describes conditions that need to be met in order for GAEPD to use water quality data collected by outside sources in 305(b)/303(d) listing decisions.

Samples must be collected, when feasible, at the same site(s) that previously placed the water body on the 305(b)/303(d) List. GAEPD will need to approve an alternate location if sampling at the original site is not feasible. Qualified data that fits criteria outlined in *Georgia's 2014 305(b)/303(d) Listing Assessment Methodology*³ will be reviewed by GAEPD to determine if a stream meets water quality standards and may be moved to a “Supporting” status.

Pollutant or Indicator	Summary of Water Quality Standards*	Required Number of Samples
Fecal Coliform	<p>Two seasonal in-stream water quality standards for geometric means: 1,000 mpn per 100 ml (Nov-April) 200 mpn per 100 ml (May-Oct)</p>	<p>16 samples per site: 4 samples collected within a 30-day period during each of 4 calendar quarters or seasons to calculate 4 geometric means. NOTE: The 30-day sampling period must not overlap the months of April/May or October/November due to seasonal changes in water quality standards.</p>

Dissolved Oxygen	5mg/l (daily average) 4 mg/l (minimum)	20 measurements within a 12 month period (1-2 measurements per month)
Temperature	90° F (maximum)	20 measurements within a 12 month period (1-2 measurements per month)
pH	6.0-8.5 std. Units	20 measurements within a 12 month period (1-2 measurements per month)

NOTE: GA EPD will consider requests to monitor additional pollutants or indicators on a case-by-case basis.

*Specific water use classifications (Fishing, Recreation, Scenic River, etc.) have different water quality standards².

¹ http://epd.georgia.gov/sites/epd.georgia.gov/files/related_files/site_page/SQAP-gwf_1.pdf

² <http://rules.sos.state.ga.us/docs/391/3/6/03.pdf>

³ https://epd.georgia.gov/sites/epd.georgia.gov/files/related_files/site_page/303d_Listing_Methodology_Y2014.pdf

The U.S. Environmental Protection Agency (USEPA) requires a biennial report updating assessments for the Georgia 305(b)/303(d) List of Waters on April 1st of every even-numbered year (2018, 2020, 2022, etc.). To be included in upcoming reports, data must be submitted to the GAEPD no later than June 30th of each odd-numbered year (2017, 2019, 2021, etc.).

Steps to 305(b)/303(d) List Monitoring of Water Bodies Classified as Not Supporting or Assessment Pending
<ul style="list-style-type: none"> • Design and submit a site-specific Sampling Quality Assurance Plan (SQAP) that follows procedures described in the Guidance on Submitting Water Quality Data for Use by the Georgia EPD in 305(b)/303(d) Listing Assessments (October 2002). • Schedule certified training by GAEPD’s Monitoring Unit that will include instructions on proper site access, sample collection and handling, and in-situ testing and analysis (i.e. dissolved oxygen, pH, and temperature). • Collect and deliver samples under the chain-of-custody authorized by a certified laboratory analyst or accredited laboratory as referenced in the GA EPD’s Water Protection Branch Quality Assurance Manual (June 1999, Jan 2005 revision). • Employ sample collection methods that conform to the guidelines in the Water Protection Branch Quality Assurance Manual (June 1999, Jan 2005 revision). • Report testing results based on analytical procedures approved by the U.S. EPA as outlined in the Title 40, Code of Federal Regulations, Part 136¹. • Assure analytic tests are performed by a certified laboratory analyst or by personnel from an accredited laboratory. • Report testing results (if collected) with each invoice² submitted; and, where appropriate, the data should be accompanied by load reduction information based on a load reduction model such as STEPL or Region 5. • Complete a Final Monitoring Report³ for GA EPD review that compiles all data, notes, and information gathered on the conditions of the watershed. The Final Monitoring Report should be submitted in hardcopy format with the Final Project Closeout Report. <p style="text-align: center;">¹ http://epd.georgia.gov/field-investigation-quality-assurance-water-quality</p> <p>² Invoices that include reimbursement for monitoring costs may not be paid until water quality data is received.</p> <p>³ A completed watershed-based plan (of any type) will serve as the Final Monitoring Report.</p>

TARGETED MONITORING

Targeted Monitoring aims at tracking particular trends in water quality improvement or degradation, and is intended to provide a broad picture of water quality conditions within a

watershed. Samples or in-stream measurements are collected following GAEPD Adopt-A-Stream Program or other quality assurance/quality control (QA/QC) techniques. Monitoring is performed at multiple sites in the watershed and must also include established GAEPD/USEPA sampling site(s). Resulting data can demonstrate water quality improvement after BMP installation, or track water quality trends in healthy waters.



Post-BMP monitoring must be scheduled during the last nine (9) months of the project in order to give BMPs enough time to function. Sampling sites must be located downstream of BMP installations or clusters in order to evaluate whether BMP are effective in improving water quality.

Pollutant or Indicator	Recommended Water Quality Criteria*	Required Number of Samples
E. coli ¹	Swimming Categories Designated: <235 cfu/100 mL Moderate: <298 cfu/100 mL Light: <410 cfu/100 mL Infrequent: <576 cfu/100 mL	1 sample per site every month (12 samples per year)
Dissolved Oxygen ²	5mg/l (daily average) 4 mg/l (minimum)	20 measurements within a 12-month period (1-2 measurements per month)
Temperature ²	90° F (maximum)	20 measurements within a 12-month period (1-2 measurements per month)
pH ²	6.0-8.5 standard units	20 measurements within a 12-month period (1-2 measurements per month)
Phosphorus ³	Normal background levels: < 0.1 ppm	1 sample per site every month (12 samples per year)
Nitrogen ³	Normal background levels: < 1 ppm	1 sample per site every month (12 samples per year)
Conductivity ³	Georgia streams supporting mixed fisheries range from 50 to 500 mS/cm	1 measurement per site every month (12 measurements per year) Establish normal background levels Follow up any deviations
Habitat Assessment ²	All waters shall be free from substances that interfere with legitimate water uses or are harmful to humans, animals or aquatic life.	Quarterly assessments at each site (4 measurements per year)
Turbidity ²	All waters shall be free from turbidity that causes a substantial visual contrast in a water body.	3 wet weather samples per season (May-October / November-April) (6 wet weather samples per year)
Total Suspended Solids (TSS) ⁴	Reduce post-development total suspended solids loadings by 80%, as measured on an average annual basis.	3 wet weather samples per season (May-October / November-April) (6 wet weather samples per year)
Settleable Solids (Imhoff Cone) ³	Excessive solids block sunlight, clog fish gills, smother aquatic habitats, carry toxic substances, and erode stream banks.	3 wet weather samples per season (May-October / November-April) (6 wet weather samples per year)

*Specific water use classifications (Fishing, Recreation, Scenic River, etc.) have different water quality standards².

¹ USEPA recommendations based on an acceptable risk level of 8 people out of 1000 getting sick

² GAEPD water quality standard: <http://rules.sos.state.ga.us/docs/391/3/6/03.pdf>

³ GA Adopt-A-Stream data

⁴ USEPA guidance adopted by GAEPD: <http://www.georgiastormwater.com>

If Targeted Monitoring data shows improvement in water quality, this can lead to further qualified monitoring for 305(b)/303(d) List purposes under an approved SQAP or by GAEPD.

The pollutants or water quality concerns that GAEPD considers priorities for 319(h) grant-funded monitoring are bacteria (fecal coliform, *E. coli* and Enterococci), dissolved oxygen, nutrients (phosphorus and nitrogen) and sediment. Monitoring for sediment consists of habitat assessments and measurements for turbidity, settleable solids and Total Suspended Solids. GAEPD may also allow other monitoring (macroinvertebrates, pebble counts, metals, toxicity) under certain conditions.

Steps to Targeted Monitoring
<ul style="list-style-type: none">• Determine pollutants or water quality concerns to be monitored and develop an approved Targeted Monitoring Plan that follows the methods and procedures described in the most current GA Adopt-A-Stream Program (AAS) Visual Stream Survey, Biological & Chemical Stream Monitoring and Bacterial Monitoring manuals*.• Schedule certified training by GA EPD's Monitoring Unit and/or Adopt-A-Stream Program staff that will include instructions on proper site access, sample collection and handling, and testing and analysis.• Collect samples at multiple sites within the watershed to track water quality improvement by sampling downstream of BMP installations, or water quality trends in healthy waters.• Apply quality assurance/quality control protocols for the duration of the monitoring project such as using a blank, taking samples in duplicate, and equipment calibration.• Report testing results with each invoice¹ submitted (if collected); and, where appropriate, the data should also be accompanied by load reduction information based on a load reduction model such as STEPL or Region 5.• Complete a Final Monitoring Report² for GA EPD review that compiles all data, notes, and information gathered on the conditions of the watershed. The Final Monitoring Report should be submitted in hardcopy format with the Final Project Closeout Report. <p data-bbox="532 1241 1102 1266">* Access at http://georgiaadoptastream.com/db/manuals.asp</p> <p data-bbox="302 1266 1333 1291">¹ Invoices that include reimbursement for monitoring costs may not be paid until water quality data is received.</p> <p data-bbox="386 1291 1248 1316">² A completed watershed-based plan (of any type) will serve as the Final Monitoring Report.</p>

Targeted Monitoring also offers the opportunity to monitor listed or documented Secondary Pollutants (Section 8.) in addition to the already-known impairments addressed by specific BMPs. GAEPD should be consulted on a case-by-case basis to determine what monitoring for Secondary Pollutants would be appropriate for particular 319(h) BMP projects.

APPENDIX D MATCH FAQs SHEET

WHAT IS LOCAL MATCH?

Local match is a financial commitment related to the federal dollar amount requested, and is required as part of a Section 319(h) Grant contract to implement the project. The applicant and project partners identify budget expenses that will be contributed as match in local dollars or in-kind services/resources when submitting the initial project application.

HOW MUCH LOCAL MATCH IS REQUIRED?

A minimum 40% of the total project cost is the required local match for all Georgia Section 319(h) projects. Additional local match of 50% or above is encouraged; and may result in the project proposal receiving priority consideration for funding.

**Example Calculation for Determining Match Commitment:
Federal Funds Requested x 2/3 = Required Minimum Non-Federal Matching Funds**

<i>Federal Funds Requested:</i>	<i>\$150,000 x 2/3 (60% of Total Project Cost)</i>
<i>Minimum Local Match Required:</i>	<i>\$100,000 (40% of Total Project Cost)</i>
<i>Total Project Cost:</i>	<i>\$250,000</i>

WHAT CAN BE USED AS LOCAL MATCH?

Local match **must be from non-federal sources** and may be in cash or in-kind services/resources applied to a specific project. Match items **MUST** be eligible for federal dollars. Any items that do not qualify for federal funds may not be counted as match.

CASH MATCH: Cash contributed specifically to cover the actual costs of the project.

IN-KIND MATCH: Contributions made directly in the form of services, resources or goods with dollar value specified to implement the project. These amounts must be:

1. Verifiable (see section below regarding tracking local match commitments);
2. Directly related to accomplishing project activities and tasks;
3. Not already counted as match for another project funded by federal grants;
4. Allowable as federal grant funds under the applicable cost principles (see Title 2 CFR Part 200 and Part 1500, effective December 26, 2014, available online at http://www.ecfr.gov/cgi-bin/textidx?SID=cda0bdef668241883294f8587b2c1163&mc=true&tpl=/ecfrbrowse/Title02/2tab_02.tpl).

PUBLIC LAND CONSERVATION AS LOCAL MATCH

(1) Restricted to water quality protection purposes; (2) Compliant with **Conditions on Land Acquisition for State of Georgia (Appendix E)** and **Uniform Appraisal Standards for Federal Land Acquisitions**; (3) Permanently protected by Deed Restriction or Conservation Easement; and (4) Sustaining required due diligence.

EXAMPLE IN-KIND MATCH SERVICES

Adapted from the Ohio Environmental Protection Agency, Division of Surface Water Nonpoint Source Program.

✓ Personnel/Staff Salaries	✓ Structural Designs
✓ Professional Fees	✓ Outreach Products & Events
✓ Labor	✓ Media Buys & Production
✓ Supplies & Materials	✓ Surveys
✓ Equipment (Leases or Purchases)	✓ Publications
✓ Office / Meeting Space Rent	✓ Audits & Appraisals
✓ Office Utilities	✓ Indirect Charges
✓ Volunteer Hours	✓ Public Land Conservation
✓ Fringe benefits are also eligible as match for personnel time donations from the grant lead organization and other project partners.	

EXAMPLE LIMITATIONS

Adapted from the Ohio Environmental Protection Agency, Division of Surface Water Nonpoint Source Program.

<p>⊗ Local match contributions must be from non-federal sources. This means that contributions cannot include:</p> <ul style="list-style-type: none">✗ Cash from any federal funding sources;✗ Cash or in-kind goods/services/efforts that will be reimbursed with federal dollars;✗ Cash or in-kind goods/services/efforts used as cost-share for another federal grant; and/or✗ In-kind goods/services/effort provided by federal employees or a federal organization.
<p>⊗ Expenditures that are either required or anticipated to be required under an NPDES permit or enforcement order cannot be used as local match.</p>
<p>⊗ Match cannot be contributed until the start date of the fully-executed grant contract and as outlined in the Scope of Services Implementation & Drawdown Schedule.</p>
<p>⊗ The same cash or in-kind services/goods cannot be applied to more than one project.</p>

How Do I TRACK LOCAL MATCH CONTRIBUTIONS?

Local cash or in-kind match must be fully documented and consistent with the Implementation & Drawdown Schedule outlined in the grant contract. Specifically:

1. Local match contributions must be tracked on a quarterly basis along with invoicing for federal funds and progress reports;
2. Match contributions must be entered into the lead organization's accounting records and be auditable from those records (i.e. type, quantity, value of contribution, date of contribution, signature of contributor/partner organization);
3. When recording in-kind match, accounting records must show how the value placed on the match was derived (i.e. number of volunteer or personnel or meeting space hours and hourly rate for each, etc.);
4. Volunteer hours and services must be documented to the extent feasible.

How Do I CALCULATE THE VALUE OF IN-KIND MATCH?

The in-kind match value must not exceed fair market cost or rental rates.

DONATED SERVICES:

Actual Salaries, Wages or Fees

Actual salaries, wages or fees contributed for match only count if the individuals are performing the same work in support of the project for which they are employed or charge compensation. In this case, the value of fringe benefits and overhead costs associated with the donated time can also be applied to match. Otherwise, the value of donated time must be computed at the "volunteer" rate paid for the work performed. In other words, lawyers, engineers, planners must base donated time on "volunteer" rates if they are removing tires from a stream. However, if they donate their professional services to support the project, they can compute the match based on their normal fee structures.

Volunteer Contributions

Volunteer time/services donated to the project must be valued at rates consistent with standard fees or compensation ordinarily paid for similar work/services in the same labor market. Rates for volunteer services can be found on the following websites:

- <https://explorer.dol.state.ga.us/vosnet/Default.aspx>
- www.bls.gov/bls/blswage.htm
- www.independentsector.org/volunteer_time

DONATED SUPPLIES:

The contribution must be priced at the market value of the supplies at the time of donation.

DONATED EQUIPMENT OR SPACE IN A BUILDING:

The contribution must be appraised at the fair market rental rate of the equipment or space.

APPENDIX E

REQUIRED DUE DILIGENCE FOR NON-POINT SOURCE & LAND CONSERVATION PROJECTS IN GEORGIA

The value of property that is permanently protected through a non-point source (NPS) project may be used as match in 319(h) grant applications if the following conditions are met and approved by the Georgia EPD.

1. Connection to the Proposed NPS Project:

In order for the proposed land conservation activity to be used as match, it must play an integral role in the protection of water quality through a larger NPS project. This role must be justified by the applicant in the application documents and approved by Georgia EPD. The use of land conservation as match may be denied if the proposed NPS project could be completed and sustained without permanent land protections.

2. Permanent Protection:

For projects in which the applicant will acquire a fee-title property interest, the following language must be incorporated into the property deed and recorded on the date of the project's real estate closing. The entity receiving the fee-title property interest must be eligible to accept 'Qualified Donations', as defined in O.C.G.A §48-7-29.12(a)(6). A copy of the so-amended deed must be recorded and delivered to the EPD.

This property shall be and is perpetually restricted, as indicated herein, so as to maintain certain conservation values which may include waterways, wetlands, natural habitats, forests, wildlife, scenic and agricultural areas and other ecological values which qualify the property as scenic, natural or rural and that has not been subject to significant development and as a significant natural area that provides a "relatively natural habitat for fish, wildlife, plants, or similar ecosystems" as that phrase is used in Section 170(h)(4)(A)(ii) of the Internal Revenue Code. These restrictions are deemed to be covenants running in favor of or for the benefit of land and are being held for the use of the public. Therefore, pursuant to O.C.G.A. § 44-5-60 (c), these covenants shall run in perpetuity. The grantee shall seek to preserve any plants, animals, or plant communities of the property, including but not limited to species designated as protected by the Georgia Department of Natural Resources and the U.S. Fish and Wildlife Service.

For projects in which the applicant will acquire a conservation easement on the property, EPD must review and approve the draft easement prior to its execution. A copy of the executed easement must then be delivered to EPD. The entity receiving the easement must be eligible to accept 'Qualified Donations', as defined by O.C.G.A §48-7-29.12(a)(6). The easement must also contain the language below.

This conservation easement shall be perpetual and shall be a covenant running with the land. If circumstances arise under which an amendment to or modification of this Conservation Easement would be appropriate, Grantor and Grantee, or their successor or assigns, may subject to the approval process discussed below, amend this Conservation Easement; provided that no amendment shall be made that will adversely affect the qualification of this Conservation Easement or the status of Grantee under any applicable laws, including Sections 170(h) and 501(c) (3) of the Internal Revenue Code and the Georgia Uniform Conservation Easement Act, O.C.G.A. § 44-10-1 et seq. Any such amendment shall be consistent with the purposes of this Conservation Easement, shall not affect its perpetual duration, and shall result in equal or greater protection of the Conservation Values on the Protected Property. Nothing herein shall require Grantee to agree to any amendment, and Grantee shall obtain approval of the Georgia Environmental Protection Division or its successor State of Georgia entity, for any amendments, which approval shall not be granted if, in the sole discretion of the State of Georgia, the proposed amendment affects the Conservation Values of the Property. In the event no successor State of Georgia entity exists, the contact agency

will be the State Properties Commission or the State of Georgia entity then responsible for the accounting of state property.

3. Appraised Value:

The values of permanently protected fee-title land or conservation easements being used to match 319(h) grant funds must be justified by appraisals that meet specific standards. The purpose of the appraisal is to develop an opinion of the market value of the fee-title or easement interest in the property being conveyed. Such interest is \$0 in inverse condemnations. All appraisals are subject to review and approval by the State.

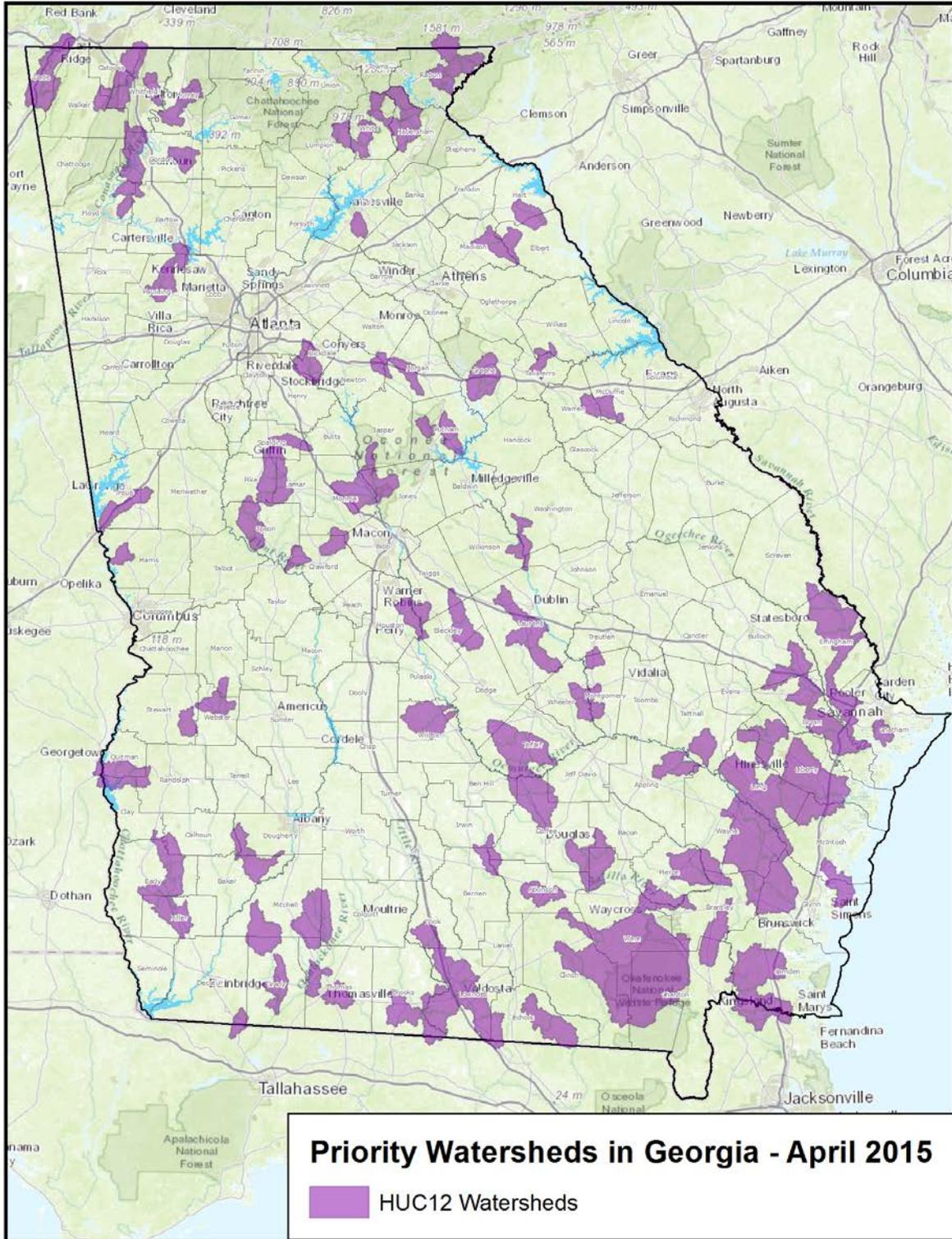
Acceptable appraisals may only be developed by Certified General appraisers according to the Georgia Real Estate Appraisers Board. All appraisals must conform to the Uniform Standards of Professional Appraisal Practice (USPAP) and the Appraisal Institute's Code of Professional Ethics and Standards of Professional Appraisal Practice. Appraisals must also meet the requirements of Section 170 of Title 26 of the United States Code and contain the following items.

- Purpose, Scope and function of the appraisal.
- Highest and Best use of the property.
- Physical description of the property being appraised and at least a 5-year sales history of the property.
- All relevant approaches to valuation consistent with common professional appraisal practices.
- A description of comparable sales with photos and location maps of each comparable.
- A statement of the value of the real property to be acquired, including data analysis. For conservation easements, a statement of the property value *before and after* the easement is in place is required.
- Effective valuation date, appraisal date, appraiser signature and certification within one year of review.

4. Other Due Diligence Materials:

- Property Survey. For land or conservation easements acquired as part of the proposed NPS project, a current survey plat and/or legal description signed by a registered Georgia land surveyor is required. The surveyor shall provide a recordable plat and/or legal description of the tract(s); and provide a signed "Certificate of Surveyor" that complies with O.C.G.A. §15-6-67 – 69 as amended, and O.C.G.A. §44-4-20 – 31.
- A Phase I Environmental Site Assessment. A Phase I Environmental Assessment in accordance with the American Society for Testing and Materials (ASTM) Standard E 1527-00 or ASTM Standard E 2247-02 shall be conducted on all land being permanently protected as part of the NPS project.
- Title Insurance. All land conservation projects being used a match require a copy of a valid title insurance policy in favor of the intended real property or easement holder. A copy of a title commitment letter from a registered title insurance company must be delivered to EPD prior to project closing.
- Land Management Plan. The applicant shall submit a land management plan to EPD for review and approval at least 30 days prior to acquiring the land or easement. The land management plan shall outline how the permanently protected land will be managed to protect water quality and lessen the impacts of nonpoint source pollution in perpetuity.

APPENDIX F MAP & LIST OF PRIORITY HUC-12 WATERSHEDS



SORTED ALPHABETICALLY by COUNTY NAME

HUC12	Watershed Name	DNR_BASIN	COUNTY NAME
030701060301	Fivemile Creek	Altamaha	Appling
030701060203	Lower Tenmile Creek	Altamaha	Appling
030702010302	Little Red Bluff Creek	Satilla	Atkinson
030702010603	Middle Hog Creek	Satilla	Bacon
031300080304	Lower Cooleewahee Creek	Flint	Baker
031102020604	Lower Willacoochee River	Suwannee	Berrien
030701050102	District Hollow Branch-Gum Swamp Creek	Ocmulgee	Bleckley
030701050101	Reedy Creek-Gum Swamp Creek	Ocmulgee	Bleckley
030702011104	Lower Buffalo Creek	Satilla	Brantley
031102030703	Lower Piscola Creek	Suwannee	Brooks
030602030606	Clyde Creek-Canoochee River	Ogeechee	Bryan
030602020508	Little Creek-Black Creek	Ogeechee	Bryan
030602020507	Lower Mill Creek	Ogeechee	Bryan
030602040301	Sterling Creek-Ogeechee River	Ogeechee	Bryan
030602020503	Ash Branch-Lower Black Creek	Ogeechee	Bulloch
030602020505	Caney Branch-Black Creek	Ogeechee	Bulloch
031300100102	Perry Creek-Spring Creek	Flint	Calhoun
030702040902	Cabbage Creek-St. Marys River	Saint Mary's	Camden
030702040905	Catfish Creek-St. Marys River	Saint Mary's	Camden
030702040904	Little St. Marys River	Saint Mary's	Camden
030702011202	Rose Creek-Satilla River	Satilla	Camden
060200010702	Lower East Chickamauga Creek	Tennessee	Catoosa
060200010703	Tiger Creek	Tennessee	Catoosa
031102010105	Okeefenokee Swamp	Suwannee	Charlton
030602040201	Hardin Canal-Little Ogeechee River	Ogeechee	Chatham
030602040303	Vernon River	Ogeechee	Chatham
031102010103	Suwannee Creek	Suwannee	Clinch
031102010201	Upper Tatum Creek	Suwannee	Clinch
030702010401	Broxton Creek	Satilla	Coffee
030702010504	Cat Creek-Seventeen Mile River	Satilla	Coffee
030701040804	Gregeory Creek-Ocmulgee River	Ocmulgee	Coffee
030702010403	Rose Creek	Satilla	Coffee
031200020402	Middle Little Ochlockonee Creek	Ochlockonee	Colquitt
031200020401	Upper Little Ochlockonee Creek	Ochlockonee	Colquitt
031102040501	Wells Mill Creek	Suwannee	Cook
030701031503	Little Echeconnee Creek	Ocmulgee	Crawford
031300051206	Lower Ulcohatchee Creek	Flint	Crawford
060200011103	Crawfish Creek-Lookout Creek	Tennessee	Dade
060200011102	Gulf Creek-Lookout Creek	Tennessee	Dade
060200011105	Lookout Creek	Tennessee	Dade
060200011104	Sitton Gulch Creek-Lookout Creek	Tennessee	Dade
031200030205	Lower Swamp Creek	Ochlockonee	Decatur
031300090806	West Chickasawhatchee Creek-Chickasawhatchee Creek	Flint	Dougherty
031300100205	Lower Dry Creek	Flint	Early
031300100104	Spring Branch-Spring Creek	Flint	Early
031300100103	Town of Crossroads-Spring Creek	Flint	Early
031102010502	Lower Toms Creek	Suwannee	Echols

031102010501	Upper Toms Creek	Suwannee	Echols
030601090203	Ebenezer Creek	Savannah	Effingham
030601090202	Lower Runs Branch	Savannah	Effingham
030601090201	Upper Runs Branch	Savannah	Effingham
030601040304	Deep Creek-Broad River	Savannah	Elbert
031501041604	Dykes Creek	Coosa	Floyd
031501030602	Woodward Creek	Coosa	Floyd
030701060504	Altamaha Sound-Frontal Atlantic Ocean	Satilla	Glynn
030702030101	Little Buffalo Creek	Satilla	Glynn
030702030102	Turtle River	Satilla	Glynn
031501030204	Bow Creek-Oostanaula River	Coosa	Gordon
031501030201	Camp Creek	Coosa	Gordon
031501020605	Lick Creek-Salacoa Creek	Coosa	Gordon
031501020604	Marlow Branch-Salacoa Creek	Coosa	Gordon
031501030205	Robbins Creek-Oostanaula River	Coosa	Gordon
031501030203	Snake Creek-Oostanaula River	Coosa	Gordon
031200020704	Little Tired Creek	Ochlockonee	Grady
031200020706	Lower Tired Creek	Ochlockonee	Grady
031200020703	Middle Tired Creek	Ochlockonee	Grady
030701011104	Little Creek-Richland Creek	Oconee	Greene
030701011103	Lower Beaverdam Creek	Oconee	Greene
030701011101	Town Creek-Richland Creek	Oconee	Greene
030701011102	Upper Beaverdam Creek	Oconee	Greene
031300010105	Amys Creek-Chattahoochee River	Chattahoochee	Habersham
031300010201	Headwaters Soquee River	Chattahoochee	Habersham
031300010206	Lower Soquee River	Chattahoochee	Habersham
031300010204	Middle Soquee River	Chattahoochee	Habersham
031300010202	Upper Soquee River	Chattahoochee	Habersham
030701010104	Upper Walnut Creek	Oconee	Hall
031300021103	Mountain Oak Creek	Chattahoochee	Harris
030601030407	Little Coldwater Creek	Savannah	Hart
030601030406	Upper Coldwater Creek	Savannah	Hart
030701040107	Thompson Mill Creek-Ocmulgee River	Ocmulgee	Houston
030701031303	Little Falling Creek	Ocmulgee	Jasper
030701031307	Berry Creek-Ocmulgee River	Ocmulgee	Jones
030701031304	Lower Falling Creek	Ocmulgee	Jones
031300050901	Honey Bee Creek-Potato Creek	Flint	Lamar
031300050904	Little Potato Creek	Flint	Lamar
030701021104	Bluewater Creek-Turkey Creek	Oconee	Laurens
030701021103	Horse Branch-Turkey Creek	Oconee	Laurens
030701021105	Reedy Creek-Turkey Creek	Oconee	Laurens
030701021304	Upper Ochwalkee Creek	Oconee	Laurens
030602030505	Middle Taylors Creek	Ogeechee	Liberty
030602030507	Strum Bay-Canoochee Creek	Ogeechee	Liberty
030602040401	Upper North Newport River	Ogeechee	Liberty
030701060404	Lower Doctors Creek	Altamaha	Long
030602030503	Strickland Pond-Canoochee Creek	Ogeechee	Long
031102021003	Alapahoochee River	Suwannee	Lowndes
031102040504	Franks Creek	Suwannee	Lowndes
031102021002	Lower Mud Swamp	Suwannee	Lowndes
031102030804	Redland Creek	Suwannee	Lowndes

031102030802	Tiger Creek-Withlacoochee River	Suwannee	Lowndes
031102021001	Upper Mud Swamp	Suwannee	Lowndes
031102030404	Valdosta-Withlacoochee River	Suwannee	Lowndes
031300010505	Tate Creek-Chestatee River	Chattahoochee	Lumpkin
030601040302	Scull Shoal Creek-Broad River	Savannah	Madison
030601080103	Whites Creek-Brier Creek	Savannah	McDuffie
030602040601	Upper South Newport River	Ogeechee	McIntosh
031300100303	Long Branch-Spring Creek	Flint	Miller
031300100401	Susian Ford Creek	Flint	Miller
031300100505	Town of Boykin-Spring Creek	Flint	Miller
031300100501	Town of Colquitt-Spring Creek	Flint	Miller
031300100403	Upper Aycocks Creek	Flint	Miller
031300080506	Bay Pole Branch-Big Slough	Flint	Mitchell
031200020404	Big Creek	Ochlockonee	Mitchell
031200020403	Lost Creek	Ochlockonee	Mitchell
030701031305	Deer Creek	Ocmulgee	Monroe
030701031306	Rum Creek	Ocmulgee	Monroe
030701021301	Cypress Creek	Oconee	Montgomery
030701011406	Middle Big Indian Creek	Oconee	Morgan
030701011405	Upper Big Indian Creek	Oconee	Morgan
031501010406	Bullpen Branch-Holly Creek	Coosa	Murray
031501010403	Goldmine Branch-Holly Creek	Coosa	Murray
031501010402	Mill Creek-Holly Creek	Coosa	Murray
030701011401	Nelson Creek-Little River	Oconee	Newton
031501041102	Lane Creek-Pumpkinvine Creek	Coosa	Paulding
031501041103	Lawrence Creek-Pumpkinvine Creek	Coosa	Paulding
031501041105	Westbrook Creek-Pumpkinvine Creek	Coosa	Paulding
030702010705	Caney Branch-Satilla River	Satilla	Pierce
030702020501	Sixty Foot Branch	Satilla	Pierce
031300050903	Gola Creek-Potato Creek	Flint	Pike
031300050902	Turnpike Creek	Flint	Pike
030701011803	Lower Rooty Creek	Oconee	Putnam
030701011502	Pearson Creek-Little River	Oconee	Putnam
030701011802	Upper Rooty Creek	Oconee	Putnam
031300031313	Drag Nasty Creek-Chattahoochee River	Chattahoochee	Quitman
031300031507	Lower Holanna Creek	Chattahoochee	Quitman
031300031508	Wilkey Creek-Pataula Creek	Chattahoochee	Quitman
030601020208	Lower Stekoa Creek	Savannah	Rabun
030601020206	Lower Warwoman Creek	Savannah	Rabun
060102020102	Middle Creek-Little Tennessee River	Tennessee	Rabun
030601020207	Upper Stekoa Creek	Savannah	Rabun
030601020205	Upper Warwoman Creek	Savannah	Rabun
030601020203	West Fork Chattooga River	Savannah	Rabun
030701030107	Camp Creek-South River	Ocmulgee	Rockdale
030701030106	Honey Creek	Ocmulgee	Rockdale
030701031104	Cabin Creek	Ocmulgee	Spalding
031300031501	Clear Creek-Pataula Creek	Chattahoochee	Stewart
030601050105	Lick Creek-Little River	Savannah	Taliaferro
030701060302	Watermelon Creek	Altamaha	Tattnall
030701040703	Lower Horse Creek	Ocmulgee	Telfair
030701040702	Middle Horse Creek	Ocmulgee	Telfair

030701040701	Upper Horse Creek	Ocmulgee	Telfair
031101030102	Oliver Creek	Ochlockonee	Thomas
031200020602	Pine Creek-Ochlockonee River	Ochlockonee	Thomas
031300020906	Lower Long Cane Creek	Chattahoochee	Troup
031300020905	Upper Long Cane Creek	Chattahoochee	Troup
031300050908	Bell Creek-Potato Creek	Flint	Upson
031300050907	Jerry Reeves Creek-Potato Creek	Flint	Upson
031300050906	Tenmile Creek	Flint	Upson
060200010704	Upper Little Chickamauga Creek	Tennessee	Walker
030702010604	Lower Hog Creek	Satilla	Ware
030701020407	Wheeler Creek-Buffalo Creek	Oconee	Washington
030701060501	Alex Creek-Altamaha River	Altamaha	Wayne
030702020502	Little Satilla River	Satilla	Wayne
030701060402	Penholoway Creek	Altamaha	Wayne
030701060405	Penholoway Swamp-Altamaha River	Altamaha	Wayne
031300070201	Clear Creek-Kinchafoonee Creek	Flint	Webster
031300070203	Lower Lanahassee Creek	Flint	Webster
030701021401	Larry Creek-Oconee River	Oconee	Wheeler
030701021403	Lotts Creek-Oconee River	Oconee	Wheeler
031300010504	Lower Tesnatee Creek	Chattahoochee	White
031300010102	Smith Creek-Chattahoochee River	Chattahoochee	White
031300010502	Upper Tesnatee Creek	Chattahoochee	White
031501010307	Bates Branch-Coahulla Creek	Coosa	Whitfield
060200010701	Upper East Chickamauga Creek	Tennessee	Whitfield
030701040504	Cedar Creek	Ocmulgee	Wilcox
030701040505	Folsom Creek	Ocmulgee	Wilcox
030701020801	Oochee Creek-Oconee River	Oconee	Wilkinson