

ENVIRONMENTAL PROTECTION DIVISION

MS4 + 319 = ...



Veronica Craw, Manager NonPoint Source Program ACWA Mid-Year Meeting March 18, 2020



- History of stormwater management in Georgia
 - Permitting
- New methods of stormwater management
 - Green infrastructure
 - Low Impact Development
- Funding and Training Options
 - **319(h)**
 - Outreach





GEORGIA RIVER OF WORDS

https://projectwet.georgia.gov/ga-river-words



Georgia River of Words

Connecting kids to their watersheds and imaginations through poetry 4 art

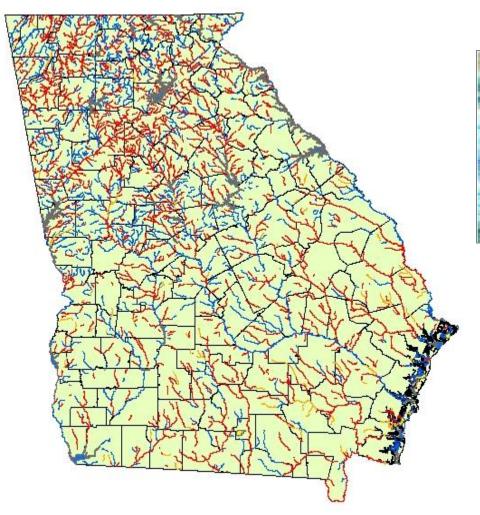








STORMWATER ACROSS GEORGIA







STORMWATER PERMITTING IN GEORGIA

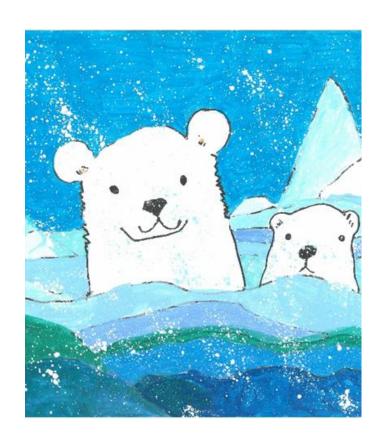
- 1972: Federal Clean Water Act and NPDES
- 1987: Federal Clean Water Act Amendments
- November 16, 1990: US EPA promulgated Phase I Stormwater Regulations
- December 8, 1999: US EPA promulgated Phase II Stormwater Regulations





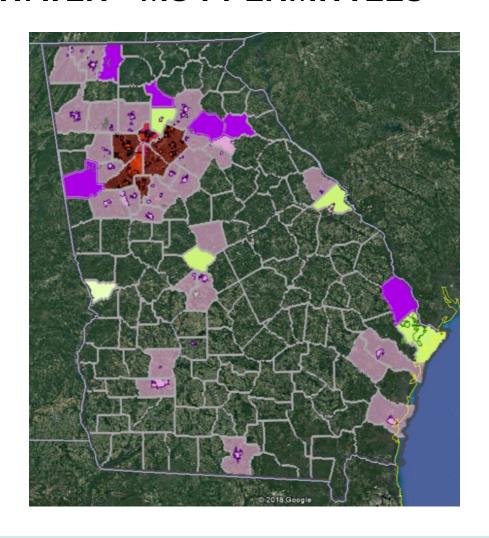
CLEAN WATER ACT

- National Pollutant Discharge Elimination System (NPDES)
 - Georgia authorized by EPA to administer the NPDES program
 - Phase I Large 45 municipalities
 - Phase I Medium 12 municipalities
 - Phase II Small 107 municipalities
 - Phase II also includes GDOT and 6 DOD facilities





STORMWATER -MS4 PERMITTEES





GREEN INFRASTRUCTURE & LOW IMPACT DEVELOPMENT

- Green infrastructure stormwater management systems that mimic nature by soaking up and storing water (neighborhood or site scale)
- Low Impact Development –an approach to land development or redevelopment that seeks to emulate the natural water cycle and reduce the negative impacts of impervious cover (regional scale)





MOVING TO GREEN INFRASTRUCTURE

- 2014 Nonpoint Source Management Plan
 - Dedicated section for GI/LID
 - Urban runoff management beyond MS4 permitting
- 2016 Second version of the Georgia Stormwater Management Manual
 - Big focus on LID
 - New GI BMPs

2017-2019 MS4 stormwater permit reissuances

Water quality/runoff reduction standard



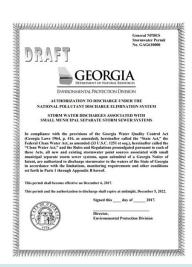


MS4 PERMIT REQUIREMENTS

- Post-Construction Stormwater Management
 - For all MS4s, new and redevelopment projects that disturb at least 1 acre of land or create at least 5,000 square feet of impervious surface must:
 - Protect water quality by:
 - Retaining the first 1 inch of rain onsite, or
 - Treating the first 1.2 inches of rain to reduce pollutants by 80%
 - Protect stream channels from getting eroded
 - Protect downstream areas from flooding from 25 year and 100 year storms



Bioretention Area





MS4 PERMIT REQUIREMENTS

3.3.11(b) Green Infrastructure/Low Impact Development

The permittee must implement a program to address post construction runoff. At a minimum, the program must contain the elements listed in Table 3.3.11(b)(2) below to address post-construction runoff and descriptions of how they are implemented:

- Legal Authority
- GI/LID Program
- GI/LID Structure Inventory
- Inspection and Maintenance Program





FUNDING FOR GI/LID

319(h) grants

- Implementation of BMPs to protect or restore water quality
- State law prohibits funding non-profits
 - O.C.G.A.12-5-33 restricts grants to public entities for projects that qualify under the provisions of "Title II of the Federal Water Pollution Control Act Amendments of 1972 (P.L. 92-500), 33 U.S.C. Section 1281, et seq., as amended by the Clean Water Act of 1977 (P.L. 95-217) or as may hereafter be amended."
 - "The State of Georgia is further authorized to make grants as funds are available to any county, municipality, or any combination of the same, or to any <u>public</u> authority, agency, commission, or institution,..."





"ABOVE AND BEYOND"

"Above and Beyond" NPDES Permit Requirements

Some activities recommended in a watershed-based plan may be considered eligible for funding or as match in a 319(h) grant project 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 on official letterhead verifying that activities proposed for the project represent practices that are "above and beyond" NPDES permit requirements and will never be counted as meeting compliance in any NPDES permit reports.

Watershed monitoring under a NPDES permit will not qualify for 319(h) Grant funding. However, the grant applicant can state that ongoing NPDES water quality data will be delivered with the project Quarterly Progress Reports in order to contribute to BMP and water quality assessments in support of the 319(h) project.

Examples of Activities "Above & Beyond" NPDES Permits

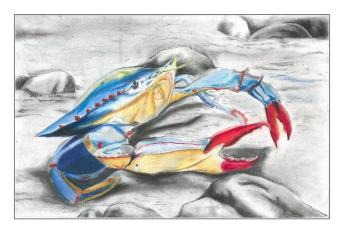
Add to Specified Number of Activities or Tasks Quoted in the NPDES Permit.

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.



"ABOVE AND BEYOND"



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.



"ABOVE AND BEYOND"



October 30, 2017

Georgia Department of Natural Resources Watershed Protection Branch Nonpoint Source Program 2 Martin Luther King Jr. Drive Suite 1462 Fast Atlanta, GA 30334

RE: LETTER OF ASSURANCE CITY OF BROOKHAVEN PROJECT IS ABOVE AND BEYOND NPDES PERMITS

Let this letter show that the City of Brookhaven has performed due diligence in the application procedures for the Georgia EPO 310 (in 172 DIR Grant. The City conducted staff and independent review, and attinded assurance from Sustainable Weater Planning and Engineering, LLC Principal Digiticer, Klimborky Shorter, PE that the Project: Stream Nestoration of North Fook Nancy Creek from the downstream of I-285 to Marphey Canaller Lake is outside the City of Brookhaven's National Pollutant Dischauge Climination System Permit requirements.

Please see attached letter from Sustainable Water Planning and Engineering, LLC as supporting documentation of the City's assurance.

Singapole

(P.P.) Patherin B. Horsen Christian Sigman City Manager

CC: Hari Karikaran, Patricia Hansen

City of Brookhaven 4362 Peachtree Road, Brookhaven, GA 30219 Phone: 404-637-0600 - Fax: 404-637-0601 swww.brookhavenge.gov





ENGINEERING DEPARTMENT

Hameed Malik, Ph.D., PE, Assistant Director

To Whom It May Concern:

This letter verifies that the proposed project activities for this grant entitled. Stormwater and its best management practices (BMPs): BMP installation and education curriculum implementation at a school in Augusta-Richmond County, is above and beyond Augusta Richmond County's NPDES Permit requirements.

Hameed Malik, Ph.D., P.E. Assistant Director –Engineering Augusta Engineering Department

Augusta, GA

Augusta Engineering Administration Division 535 Teifair Street, Bildg 4000 - Augusta, GA 30901 (705) 796-5040 - Fax (706) 796-5045 www.augustaga.gov



HISTORIC ROSWELL

East Alley – Roswell

Historic District GI/LID

- Streets and ROW
- Permeable Pavers
- Additional Benefits sewers

BEFORE



AFTER





MARSH CREEK - SANDY SPRINGS

Historic District GI/LID

- Stormwater
- Bioretention Pond
- Education









PUBLIC INVOLVEMENT AND PARTICIPATION



Minimum BMPs Required Per Permit:

- <10,000: 2 BMPs</p>
- ■>10,000: 4 BMPs
- Each BMP must be executed annually
- Each BMP must have measurable goal



FUNDING FOR PUBLIC INVOLVEMENT

3.3.10 Public Involvement

Conduct a public involvement program that creates opportunities for citizens to participate in the SWMP. This can include involving the public in planning and implementation of activities.

For those permittees with a population less than 10,000 at the time of the permit issuance, the public involvement program must contain a minimum of **two** activities. For those permittees with a population greater than 10,000 at the time of this permit issuance, the public involvement program must contain a minimum of **four** activities.

SWMP Component	Measurable Goals
Public Involvement Program	1.a Evaluate your existing program to ensure that it meets the needs of your community. Implement, and revise, if necessary, the public involvement program described in the SWMP. The Public Involvement Program must include activities chosen from the following list, or other activities proposed for EPD approval: Stream cleanup (e.g. Rivers Alive); Great American Cleanup; Citizen hotline: Citizen science/volunteer monitoring (e.g. Adopt-A-Stream); Adopt-A-Road; Storm drain marking;
	Household hazardous waste disposal event; Recycling event; Local stormwater management panel; Comprehensive planning committees; Stakeholder Advisory committees; Pet waste stations. 1.b. The measurable goal must be specified for each type of activity. Each type of activity must be executed at least once during the



OUTREACH UNIT

Key programs:

- Adopt-a-Stream Volunteer Water Quality Monitoring
- Rivers Alive Volunteer Water Clean-up
- Project WET Water Education for Teachers
- River of Words K-12 watershed poetry and art

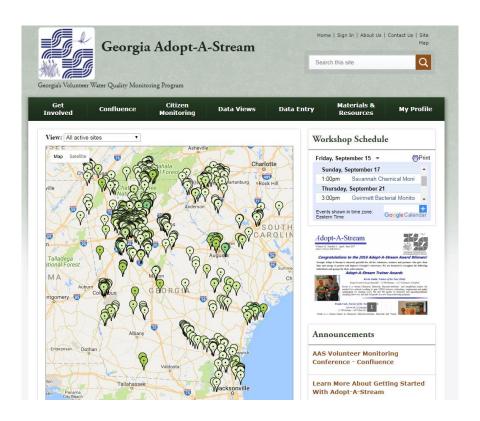


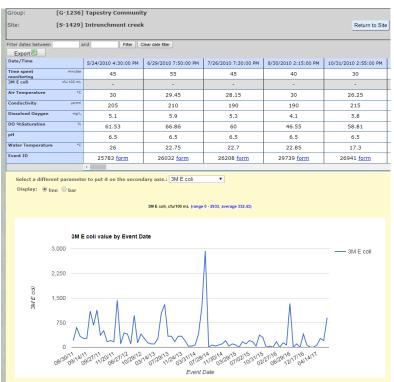




GEORGIA ADOPT-A-STREAM

https://adoptastream.georgia.gov/

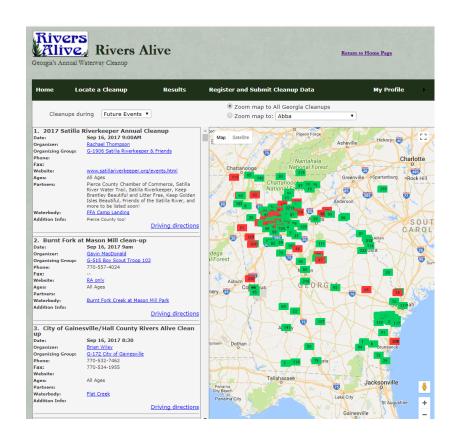






GEORGIA RIVERS ALIVE

https://riversalive.georgia.gov/

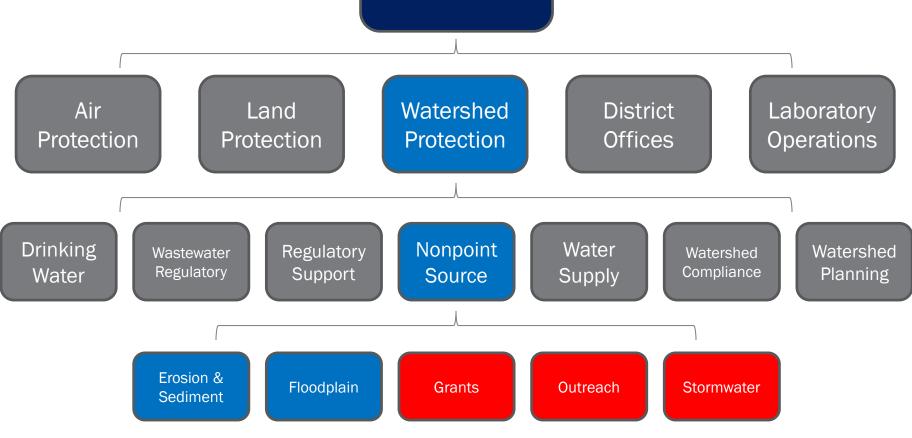








Director's Office





PRE-CORONAVIRUS PROXIMITY

Grants MS4 Staff MS4 Staff Manager **Grants Staff Grants Staff** MS4 MS4 Staff

Outreach Staff

Manager



Veronica Craw 404-651-8548

veronica.craw@dnr.ga.gov

Nonpoint Source Manager
Watershed Protection Branch
Georgia Environmental Protection Division

