

## Georgia Stormwater Phase II Informational Meetings Developing a Program

Georgia Department of Community Affairs  
Office of Environmental Management



### Stormwater Management Program

Must be designed to:

- Reduce the discharge of pollutants to the "Maximum Extent Possible"*
- Protect Water Quality*

It should be:

- Tailored to address specific water quality concerns in your community*
- Flexible*




### Preparing a Stormwater Management Plan

Getting Started –  
*It's not the full employment act for consultants*

*Inventory Assessment – Where are You?*

*Goals – Where do you want to be?*

*Implementation Strategy – How are you going to get there?*




### Stormwater Management Program

The Framework has been set for you:

- Public Education & Outreach*
- Public Participation & Involvement*
- Illicit Discharge Detection & Elimination*
- Construction Site Runoff Control*
- Post-Construction Runoff Control*
- Pollution Prevention & Good Housekeeping*





### Stormwater Management Program

*Counties are only required to implement the Program in the portion of their jurisdiction within the Urbanized Area*

*This could allow a County to focus resources on pollutant "hot spots" in the Urbanized Area, but...*

*Some management measures may not apply well over a limited area, so consider county-wide implementation, perhaps using a phased approach.*


### Stormwater Management Program

Public Education & Outreach –  
*Inventory Assessment*

What do your citizens currently know about storm water management in your Community?

How involved are your citizens in managing the natural resources within your Community?



What do they need to know to improve storm water quality in your Community....



Stormwater Management Program  
Public Education & Outreach –  
*Goal*

Involve the public by distributing educational materials or conducting outreach activities describing the impacts of storm water discharges on water bodies

Identify steps the public can take to reduce storm water pollution....

Stormwater Management Program  
Public Education & Outreach –  
The Plan

BMP: Establish a Classroom Education Program

BMP Goal: Present Stormwater Program to 75% of all Middle School Students

Implementation: Year 1 – Identify & review existing education resources; Year 2-5 present program to middle school students and track the number of students presented to.







Stormwater Management Program  
Public Education & Outreach –  
Identify Existing Resources

How do you currently educate the public?

Web Site; Newsletter; Press Releases; Utility Bill Flyers, etc

Identify Education Resources within in your Community:

Adopt-A-Stream groups, Keep Georgia Beautiful program, School Environmental Clubs, Neighborhood Groups, etc.?

Stormwater Management Program  
Public Education & Outreach –  
Identify Existing Resources (Continued)

Identify Other Education Resources you can use

Public Outreach Brochures/Information

- Every Drop Counts
- Litter Prevention
- Earth's 911
- 1-800 Cleanup Web/Phone Directory

Regional Campaigns

Enviroscape Models











Stormwater Management Program  
Public Participation & Involvement –  
Inventory Assessment

What are the existing storm water concerns in your Community?

Individual actions affect storm water quality. Involve the public in identifying the problems and solutions to storm water pollution

Stormwater Management Program  
Public Participation & Involvement –  
Goal

Include the public in developing and implementing a storm water plan for our Community

Include citizens, business and industry groups, environmental organizations, neighborhood and watershed groups, etc





**Stormwater Management Program  
Public Participation & Involvement –  
The Plan**



**BMP:** Establish a Storm Water Steering Committee

**BMP Goal:** Convene a broad stakeholder group of concerned citizens, business and industry representatives, civic groups, etc to develop a Storm Water Management Plan

**Implementation:** Year 1 – Convene group to develop SWMP and modify NOI as needed – notify EPD of changes; Year 2-5 convene group on a quarterly basis to monitor plan implementation and prepare Annual report.



**Stormwater Management Program  
Public Participation & Involvement –  
The Plan**



**BMP:** Establish a Storm Water Stenciling Program



**BMP Goal:** In five years, stencil 100% of all storm drains in our Community

**Implementation:** Year 1 – Research stenciling programs, identify priority storm drains for stenciling, and identify a volunteer pool for the program; Year 2 – Stencil priority storm drains, at least 25%, Years 3-5 Stencil at least 25% of the total storm drains in our Community each year.




**Stormwater Management Program  
Public Participation & Involvement –  
Identify Existing Resources**

**How do you currently involve and provide public notice of your meetings? Are there existing groups you could use to address Storm Water Concerns?**

**Are there existing volunteer groups you could support or encourage to implement a storm drain stenciling program?**

Adopt-A-Stream groups, Keep Georgia Beautiful program, School Environmental Clubs, Neighborhood Groups, etc.?



**Stormwater Management Program  
Illicit Discharge Detection & Elimination–  
Inventory Assessment**

**Identify your MS4 (Municipal Separate Storm Sewer System) Use existing information, like maps of streets, inlets, pipes, ditches, structural controls, and outfalls.**


**Determine if waste and wastewaters, not from storm water runoff, are entering your storm water system?**





**Stormwater Management Program  
Illicit Discharge Detection & Elimination–  
Goal**

**Create a detailed map of our MS4 system**


Adopt ordinances or other regulatory measures to prohibit non-storm water discharges to our MS4 system



Develop an enforcement program to enforce regulatory measures prohibiting non-storm water discharges to our MS4 system



**Stormwater Management Program  
Illicit Discharge Detection & Elimination–  
The Plan**



**BMP:** Develop a Storm Water System Map

**BMP Goal:** In three years, develop a Storm Water System Map

**Implementation:** Year 1 – Using existing resource maps, compile a draft Storm Water System Map; Year 2-3 review, edit and update the draft Storm Water System Map using GIS mapping resources.



**Stormwater Management Program  
Illicit Discharge Detection & Elimination–  
The Plan**



**BMP:** Prohibit non-storm water discharges to our MS4 system through regulatory enforcement

**BMP Goal:** Adopt an ordinance prohibiting non-storm water discharges to our MS4 system

**Implementation:** Year 1 – Adopt ordinance; Year 2-5 launch an education/public outreach campaign to report and enforce the ordinance.




**Stormwater Management Program  
Illicit Discharge Detection & Elimination–  
Identify Existing Resources**

Identify existing mapping resources to map your MS4 system – possible role for RDCs

Use routine maintenance activities to gather mapping information

Is there a current “hot-line” operated by the Health Department or other Agency that could field citizen reporting




**Stormwater Management Program  
Illicit Discharge Detection & Elimination–  
Identify Existing Resources – Continued**

Do you have existing records of storm water complaints, spills, or relevant ordinance violations?

Review any records pertaining to septic tank management

Review the list of 305(b) and 303(d) list of impaired waters in your community



**Stormwater Management Program  
Construction Site Runoff Control –  
Inventory Assessment**



Review and identify current construction activity within your Community

Review and identify local ordinances or controls for managing storm water runoff from construction sites

Identify and review your enforcement program for enforcing the management of storm water runoff from construction sites



**Stormwater Management Program  
Construction Site Runoff Control –  
Goal**

Develop, implement, and enforce an erosion and sediment control program for construction activities that disturb 1 or more acres of land




**Stormwater Management Program  
Construction Site Runoff Control –  
The Plan**

**BMP:** Require Erosion and Sedimentation Control plans be submitted and reviewed for any land disturbance activity greater than 1 acre

**BMP Goal:** Draft an Erosion and Sedimentation Control ordinance and guidance materials

**Implementation:** Year 1 : Actively monitor state E&S activities; Within 9 months of the state updating it's E&S program adopt local E&S ordinances; Years 4-5 Enforce local E&S Control Program






### Stormwater Management Program Construction Site Runoff Control – The Plan

**BMP:** Distribute erosion and sedimentation control educational materials to builders and construction workers, including non-English speakers

**BMP Goal:** Increase compliance by distributing educational materials to 80% of building sites


**Implementation:** Year 1 : Assemble or develop educational materials for proper BMP installation and maintenance; Years 2-3: Distribute materials to at least 50% of construction sites at start of project and during inspections. Years 4-5: Distribute to 80% of sites.

### Stormwater Management Program Construction Site Runoff Control – Identify Existing Resources

**Review the BMPs approved for the Land Disturbance Activity Permits (LDA) under the Georgia Erosion & Sedimentation Act?**

**Review the existing rules and programs for the NPDES Storm Water Permit for Construction Activities greater than 5 acres.**




### Stormwater Management Program Post Construction Runoff Control – Inventory Assessment

**How is storm water currently managed at existing facilities within your Community?**

**Review your storm water collection system and identify areas of concern and/or identify areas where storm water needs to be managed.**






### Stormwater Management Program Post Construction Runoff Control – Goal

**Reduce the number of directly connected areas of large impervious surfaces to our existing MS4 system**

**Develop and implement a storm water ordinance program that addresses the management of storm water from constructed facilities**






### Stormwater Management Program Post Construction Runoff Control – The Plan

**BMP:** Reduce the amount of impervious surface used to park vehicles in our community

**BMP Goal:** Develop zoning ordinances that encourage that the minimum amount of impervious surfaces are used for parking vehicles in our community

**Implementation:** Year 1 – Review existing zoning ordinances and research alternative models that result in less impervious surface construction; Years 2-3 Revise and update zoning ordinances Years 4-5 Enforce zoning ordinances.




### Stormwater Management Program Post Construction Runoff Control – The Plan

**BMP:** Replace the use of curbs and gutters with grassed swales and filters strips on streets and roads, whenever possible.



**BMP Goal:** Reduce directly connected impervious road surfaces in new and redevelopment projects by 30 percent (compared to traditional curb and gutter) over 5 years.

**Implementation:** Year 1-2: Review existing zoning and development ordinances and revise as necessary; Years 3-5: Encourage and document the use of swales and filter strips in lieu of traditional curbs and gutters.






Stormwater Management Program  
Post Construction Runoff Control –  
Identify Existing Resources

Review your existing zoning ordinances to ensure they are promoting the type of growth you want



Look for and identify non-structural as well as structural control options for managing storm water



Stormwater Management Program  
Pollution Prevention/Good Housekeeping–  
Inventory Assessment

Is our House in order? What programs, training, policies, etc. do you have in place to protect storm water



What type of staff training do you currently conduct? Can storm water training be added?



Stormwater Management Program  
Pollution Prevention/Good Housekeeping–  
Goal

Reduce the amount of nutrients entering our storm water system

Develop a spill prevention and control plan for all of our facilities





Stormwater Management Program  
Pollution Prevention/Good Housekeeping–  
The Plan

BMP: Develop a staff training program to educate our employees about lawn care alternatives, spill prevention and control, and vehicle maintenance.

BMP Goal: Provide storm water management training for 100% of all grounds and maintenance staff



Implementation: Year 1 – Research existing training programs and tailor materials to our needs; Year 2 – Train all grounds and maintenance staff; Years 3–5 provide refresher educational materials to trained staff and ensure all new hires are properly trained



Stormwater Management Program  
Pollution Prevention/Good Housekeeping–  
Identify Existing Resources

Don't recreate the wheel . . . Find out what other communities are doing and tailor federal/state/or other local government resource materials to your needs

Review your current safety training programs and add storm water management to these programs.




Stormwater Management Program

*All the water we have today, is all the water we will ever have*

*How we use the land affects our water quality*

*Individual actions make the difference in improving water quality*



## Stormwater Management Program



*Keep your plan simple*

*Expect to make changes as you go*

*Make sure you can implement what you establish in your plan*

*Make full use of existing resources and programs*



Department of Community Affairs  
Office of Environmental Management - Resources

### Local Government Water Resources Toolkit – CD version



Information Management  
Statewide Distribution

#### Land-Water Link: GIS Resources

Water Quality Information  
Community Facilities  
Watershed Awareness



Watershed Education  
Local Presentations

