

Stormwater Ordinance Update Workshop – Part 2 SCM Inspection & Maintenance



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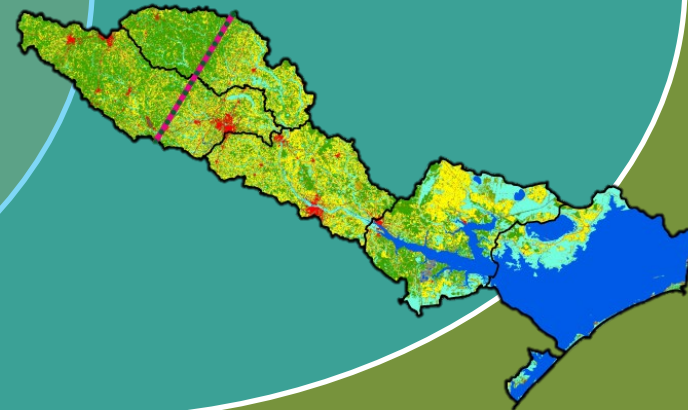
Current SW Regulations

MS4 Phase II

- Construction Runoff
- Public Involvement
- Good Housekeeping

Tar-Pam NSW

- SCMs
- Public Education
- Illicit Discharge Elimination
- Annual Reporting
- Nutrient Mitigation
 - Riparian Buffers



New SW Regulations

MS4 Phase II

- Construction Runoff
- Public Involvement
- Good Housekeeping

Tar-Pam NSW & Neuse

- **SCMs**
- Public Education
- Illicit Discharge Elimination
- Annual Reporting

- Nutrient Mitigation
 - Riparian Buffers
 - **24% High Density threshold**



Stakeholder Committee

Developers, Engineers, and Others
Council Liaison

Objectives:

1. Satisfy state and federal requirements
2. Review existing City ordinances & policies
3. Recommend changes to ordinances & policies

Commitment:

12 month process with
12 meetings



SW Ordinance Update Part 2

- Acceptance & Warranty
- Annual Inspections
- Qualified Professional Status
- Common Maintenance Items
- Inspection Forms & Reports
- Enforcement



Definitions

- **Stormwater Control Measure (SCM)** also known as "Best Management Practice" or "BMP," means a permanent structural device that is designed, constructed, and maintained to remove pollutants from stormwater runoff by promoting settling or filtration; or to mimic the natural hydrologic cycle by promoting infiltration, evapo-transpiration, post-filtration discharge, reuse of stormwater, or a combination thereof.
- **Detention Facility** A facility, constructed for the purpose of detaining stormwater runoff from a developed site to control the peak discharge rates. A detention facility does not provide water quality treatment the way a Stormwater Control Measure (SCM) does.

Acceptance & Warranty

- Require existing controls compliant or approved plan of action prior approval of site plan or residential plat
- Require existing controls compliant or bonded prior to issuance of CO.



Greenville
NORTH CAROLINA

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Currituck County

Acceptance & Warranty

- Developer responsible for repairs & maintenance of SCM's & detention facilities for minimum first 12 months
- Developer request warranty inspection at 11 months
- City must inspect within 30 days
- Developer given 90 days to make repairs or submit plan of action
- Developer request reinspection
- Passing = "Like-new condition"
- Once approved, Developer may transfer to permanent owner or HOA/POA.



Acceptance & Warranty

- Clarify acceptance & erosion control for phased dev.
 - Once accepted, SCM/Detention, pipes, gutter and street are part of the stormwater system and must be protected.
 - Individual home sites must keep sediment from entering an accepted street, pipe, or pond.



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Annual Inspection

- Require annual inspections from owner's qualified professional of all SCMs & Detention Facilities (quality & quantity)
- City inspections minimum of every 3 years
 - Greater reliance on owner's inspection
 - Enforcement for no annual inspection even when facility is otherwise compliant
 - Establish Annual Inspection due date per facility
- Qualified Professional includes NCSU SCM I&M certification



Qualified Professional Status

- Owner must provide annual inspection by a “qualified professional”
- Establish procedure and consequences for improper qualified professional inspections
 - City staff will detail errors and omissions in report to inspector and SCM owner.
 - City staff may increase frequency of City inspections from once every 3 years.
 - After 3 submitted inspections with “major errors or omissions”, inspector suspended 12 months and must do education with city staff



Qualified Professional Status

- After 3 submitted inspections with “major errors or omissions”, inspector’s “qualified professional” status is suspended for at least 12 months.
- Inspection reports submitted by a suspended inspector will not be accepted for compliance as the required annual inspection.
- Suspended inspector must complete in-person training with City staff to be restored
- Suspension applies to individual not entire firm.
- Suspension applies regardless of site or facility inspected.



Qualified Professional Status

- After 12 month and training, status restored, City staff will audit next 3 inspections submitted.
- Additional omissions will equal additional suspension.
- Egregious, fraudulent, or repeated errors or omissions may result in permanent revocation of qualified professional status and/or report to licensing board.



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Common Maintenance Items



Dry Detention Pond

**Sediment
Build-up**



Constructed Wetland



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Common Maintenance Items

INVASIVE PLANTS



Cattails



Wet Detention Pond

Common Maintenance Items



Bioretention
(Rain Garden)



Constructed Wetland

REPLANTING

Common Maintenance Items



Clogged Orifice



**Bank
Erosion**

Common Maintenance Items



Overgrowth

Algae



Inspection Forms & Reports

STORMWATER BMP ANNUAL MAINTENANCE INSPECTION REPORT Post-Construction Maintenance Report Form (Revised January, 2017)

(All previous versions of this form are invalid)

City of Greenville, North Carolina

Inspection Date:

The City of Greenville Stormwater Management Ordinance (SEC. 9-9-8) requires that Stormwater BMP devices/structures be inspected annually to certify they are being maintained properly and are functioning as originally designed and intended.

- A. **General Information: (Fill out ALL information)** *USE ONLY ONE INSPECTION FORM PER SITE WITH AS MANY ACCOMPANYING BMP CHECKLIST ATTACHMENT SHEETS AS NEEDED. IF MULTIPLE BMP'S EXIST AT A SITE, SUBMIT MULTIPLE CHECK-OFF ATTACHMENT SHEETS ALONG WITH THE STANDARD 2-PAGE FORM. ALSO, ATTACH DIGITAL PHOTOGRAPHS OF THE SITE, STRUCTURES, AND DEVICES AS APPLICABLE. COMPLETE ALL BOXES – LEAVE NOTHING BLANK.

Project Name: (as found in City of Greenville Files)	Legal Owner of Record: (Name from County Real Estate/Tax Website or from the owner if more recently updated):
<input type="text"/>	<input type="text"/>
Alternate Name if applicable:	Legal Owner of Record Address:: (from County Real Estate/Tax Website or from the owner if more recently updated):
<input type="text"/>	<input type="text"/>
Physical Address/Location of BMP:	Owner Name:
<input type="text"/>	<input type="text"/>
City of Greenville Site Plan # or Subdivision Plan #	Owner Telephone Number w/ Area Code:
<input type="text"/>	<input type="text"/>



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Wet Pond Checklist for Annual BMP Report

City of Greenville, North Carolina

BMP Site Name

Date

Item-by-Item Code Key:

(Revised January, 2017)

C	Compliant (No Repairs Needed) = Passes Inspection
C/M	Compliant pending maintenance (repairs and notification within 90 days)
NC	Not Compliant (Repairs and re-inspection within 90 days)
N/A	Not Applicable

INFLOW POINTS

Assessment	Code Status	Comments
Debris/Sediment	▼	
Erosion/undercutting	▼	
Displacement/sedimentation of fabric or rip-rap	▼	
Pipe condition	▼	
Other (Describe)	▼	

FOREBAY (AS APPLICABLE)

Assessment	Code Status	Comments
Sediment/debris accumulation	▼	
Bare soil/erosion on side slopes	▼	
Invasive vegetation	▼	
Other (Describe)	▼	

MAIN POND POOL AREA

Assessment	Code Status	Comments
	▼	



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Inspection Forms & Reports

- Compliant = No apparent issues
- Compliant Pending Maintenance = functioning but needs minor attention
 - 90 days submit notification of repairs
- Non-Compliant = not functioning as designed
 - issues need immediate attention
 - 90 days re-inspection by city staff



Enforcement

- Non-compliance letter mailed to property owner giving 90 days to make corrections
- At owner's request or when 90 days expires, control is re-inspected by city staff
- Continued deficiencies = Notice of Violation
- NOV may include civil penalties up to \$10,000/day
- City reserves right to contract corrective actions and the property owner will have 30 days to remit payment for the work performed



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Important Dates


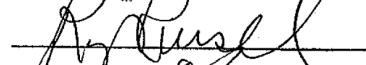



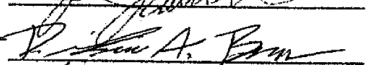
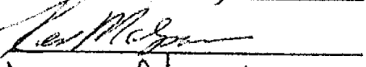
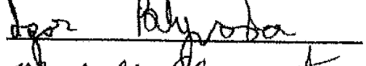
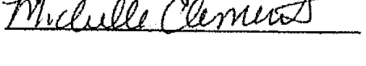

- May 29, 2024 SW Workshop Part 1 – New Dev Regs
- June 5, 2024 SW Workshop Part 2 – SCM O&M
- June 10, 2024 SNAP Tool Webinar
- July 1, 2024 Ordinance Effective Date



Thank you

Stormwater Regulatory Committee

We, the members of the City of Greenville Stormwater Regulatory Committee, do provide the attached recommendations to the City Council for proposed updates and revisions to the Stormwater Management Ordinance and Program.

<u>Committee Member</u>	<u>Firm or Organization</u>	<u>Signature</u>
Landon Weaver	Bill Clark Homes	
Rocky Russell	Russell Property Management	
Jill Howell	Sound Rivers	
Michael O'Driscoll	East Carolina University	
Bryan Fagundus	Ark Consulting	
Steve Janowski	Rivers and Associates	
Richie Brown	Stroud Engineering	
Ken Malpass	Malpass and Associates	
Igor Palyvoda	Baldwin Design Consultants	
Michelle Clements	The East Group	



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