

# GREEN STORMWATER INFRASTRUCTURE (GSI) SUBMITTAL CHECKLIST

**Stormwater Management Division**  
**c/o Development Services Department**  
 One Exchange Plaza, 4<sup>th</sup> Floor  
 Raleigh, NC 27601  
 Telephone (919) 996-3773

**I. PROJECT INFORMATION**

Project Name: \_\_\_\_\_ Phase: \_\_\_\_\_  
 Project Address: \_\_\_\_\_ Disturbed Area (sf): \_\_\_\_\_  
 PIN: \_\_\_\_\_ Case #: \_\_\_\_\_ Submittal Date: \_\_\_\_\_  
 Previous Permit numbers (if applicable): \_\_\_\_\_  
 Zoning District: \_\_\_\_\_  
 Legal Name of Owner: \_\_\_\_\_  
 Owner Contact: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Owner Address: \_\_\_\_\_  
 Design Contact Person: \_\_\_\_\_ Phone: \_\_\_\_\_  
 Design Contact Email: \_\_\_\_\_  
 The regulatory drainage basin in which the site is located: \_\_\_\_\_  
 The water supply watershed in which the site is located: \_\_\_\_\_

**II. SUBMITTAL REQUIREMENTS – This checklist is intended to assist with the submittal of plans utilizing green stormwater infrastructure to comply with nutrient loading regulations, and should accompany either an Overall Large or Overall Small Site Development Checklist. This completed checklist shall be submitted to the City of Raleigh with any project utilizing GSI. All files shall also be submitted electronically via CD or flash drive.**

Voluntary Initiatives Available When Utilizing GSI Onsite	
The City of Raleigh encourages the use of Green Stormwater Infrastructure as a best practice for stormwater management. More information on the benefits of GSI, as well as City initiatives and opportunities to incorporate GSI on your site may be found at <a href="http://RaleighNC.gov">RaleighNC.gov</a> . Please indicate whether you have or intend to pursue any of the following:	
<input type="checkbox"/>	<a href="#">Green Raleigh Review</a>
<input type="checkbox"/>	Scoping Meeting Case Number: SCOPE-_____
<input type="checkbox"/>	Public-private partnership to <a href="#">install GSI in the City Right of Way</a> – approved on a case-by-case basis

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Nutrient Loading Compliance	
<b>Applicable to:</b> <ul style="list-style-type: none"> <li>all large site developments which add any new impervious areas and choose to utilize GSI</li> <li>all development in Falls Lake or Swift Creek which exceeds 24% <a href="#">built area</a> and is required to use GSI</li> </ul>	
<b>Note: All large sites subject to active stormwater control must also show compliance with rate control requirements. Appropriately designed GSI is only deemed compliant for nutrient loading rate regulations within the Neuse River Basin or Water Supply Watersheds.</b>	
<input type="checkbox"/>	Soils report from site visit provided. Report includes the associated seasonal high water table (SHWT) elevations in addition to depths, as well as a map of the boring locations with the existing elevations and boring logs. When infiltration is proposed for SCMs, the report also includes the soil type, expected infiltration rate, and the method of determining the infiltration rate.  Rate of Infiltration: _____ in/hr
<input type="checkbox"/>	Volume Matching Calculations provided for the 90 <sup>th</sup> percentile storm
<input type="checkbox"/>	Sealed Storm-EZ calculations provided, including all inputs and results. Post-development runoff volume does not exceed pre-development runoff volume: Pre-Development Runoff Volume: _____ cf Post-Development Runoff Volume: _____ cf  Storm-EZ calculations shall be provided with hard copies, .pdf files of each sheet, as well as the original excel file used.
<input type="checkbox"/>	New Development: Entire site was modeled as forested in the pre-development condition in Storm-EZ
<input type="checkbox"/>	Redevelopment: All impervious area added as part of the redevelopment was modeled as forested in the predevelopment condition in Storm-EZ
<input type="checkbox"/>	Sealed calculations from an approved Nutrient Sensitive Waters methodology (Method 1, Method 2, Apportioning Method) provided for purposes of recordkeeping and reporting. Refer to <a href="#">NCDEQ Memo</a> for more information.
<input type="checkbox"/>	Pre- and Post- Development nutrient loading exhibits provided for project site
<input type="checkbox"/>	Stormwater Control Measure(s) Proposed (Y/N): _____ Include all appropriate <i>Stormwater Control Measure (SCM) Design Submittal Checklist</i> for each proposed measure.
<input type="checkbox"/>	Stormwater Development Analysis provided, including all relevant compliance and SCM calculations. Include <i>Stormwater Development Analysis (SDA) Submittal Checklist</i> .

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The GSI Plan Submittal Shall Also Include the Following Elements:	
<input type="checkbox"/>	A plan view of the relevant SCM(s), with grading and appropriate critical spot shots, has been provided.
<input type="checkbox"/>	A profile (showing all relevant component elevations and WSEs) through all outlet structure(s)/outfall(s) has been provided.
<input type="checkbox"/>	Details of other required SCM elements have been provided.
<input type="checkbox"/>	All supporting design calculations (including all applicable site design calculations and drainage area exhibits) have been provided.

### III. PROFESSIONAL CERTIFICATION

Name: \_\_\_\_\_  
Contact Email: \_\_\_\_\_  
Contact Phone Number: \_\_\_\_\_  
Professional Seal:

