



## Green Stormwater Infrastructure Evaluation Policy– Engineering Services – Stormwater

Series Number [Department will complete]	Version: 1.0
Responsible Department: Engineering Services	Effective Date: 11/28/2023
Supersedes: n/a	Next Review Date: 11/15/2023
Approval: <i>Marchell Adams-Davis</i>	

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### PURPOSE OF POLICY

The City of Raleigh desires to encourage the use of Green Stormwater Infrastructure (GSI) throughout Raleigh and to lead by example through incorporation of GSI in City projects. GSI practices reduce stormwater runoff, improve water quality in streams, and provide ecological and social benefits.

### POLICY

The City's project managers will work with the Engineering Services – Raleigh Stormwater (ES-Stormwater) to evaluate the use of GSI to meet regulatory requirements and to provide stormwater treatment beyond the regulatory requirements for all projects that include land disturbance. This process will include:

- The leader responsible for a department's project planning and/or project implementation will meet a minimum of annually with the ES-Stormwater GSI Advocate to identify projects planned to begin in the coming fiscal year.
- The GSI Advocate will compare projects to the criteria established in the *Implementation Guide for the "Green Stormwater Infrastructure Evaluation Policy"* to determine if evaluation is required.
- Project budgets will include sufficient funds to complete the GSI evaluation, if required.
- City Project Managers will contact the ES-Stormwater GSI Advocate during the conceptual/early planning phase of the project to initiate project evaluation for GSI.
- Project design teams will collaborate with the ES-Stormwater GSI Advocate to complete an evaluation of (a) use of GSI to meet stormwater regulatory requirements in lieu of stormwater control measures (SCMs) not considered to be GSI and (b) the use of GSI to provide treatment of impervious area beyond the stormwater regulatory requirements.
- Project design teams will complete a memo documenting the evaluation of GSI.
- The City Project Manager and/or their department representatives will meet with ES-Stormwater GSI Advocate and ES-Stormwater Water Quality Supervisor to review the memo and reach agreement on the GSI devices that will be implemented by the project and/or in partnership with ES-Stormwater. If agreement cannot be reached between these parties, they will review the recommendations with the Director of Engineering Services and the Director of the other relevant department.

## **DEFINITIONS**

All defined terms are capitalized throughout the document. Additional defined terms may be found in the central Policy Glossary.

### **City Project Manager**

The City employee responsible for managing the staff work or contracts for the planning, design, or construction of a project.

### **Green Stormwater Infrastructure (GSI)**

As defined in the City of Raleigh Unified Development Ordinance (UDO), green stormwater infrastructure is any of a number of practices that, used individually or collectively, contribute to managing, treating, and reducing stormwater runoff from a development or redevelopment site, as close as possible to the runoff's source, by preserving natural landscape features (such as vegetation, soils, hydrology, and natural processes) and/or by mimicking natural processes through installation and maintenance of structurally engineered devices (such as bioretention cells, bioswales, permeable paving/pavers, green roofs, stormwater street trees, and cisterns). In addition to contributing to stormwater management, GSI practices can enhance site aesthetics, improve air quality, reduce urban heat island impacts, provide shading, create wildlife habitat, reduce energy consumption, reduce infrastructure costs, and increase property values.

## INDIVIDUALS AND ENTITIES AFFECTED BY THIS POLICY

- Budget and Management Services – Senior Fiscal Analyst
- Engineering Services - Director
- Engineering Services – Construction Management Division – Construction Projects Administrator, Project Managers
- Engineering Services – Raleigh Stormwater – Engineering Supervisor responsible for CIP Planning, Engineering Supervisor for CIP Team, CIP Project Managers, GSI Advocate(s), Water Quality Supervisor
- Engineering Services – Roadway Design & Construction Division – Roadway Design & Construction Manager, Project Managers
- Housing and Neighborhoods - Project Managers
- Parks, Recreation and Cultural Resources – Capital Projects Superintendent, Project Managers
- Raleigh Water - CIP Team Lead, Project Managers
- Transportation – Planning Supervisor responsible for CIP Planning, Project Managers
- Other City of Raleigh Departments implementing capital improvements projects that create land disturbing activity.

## EXCLUSIONS

This policy does not apply to projects that do not create land disturbing activity.

## RESPONSIBILITIES

### **Budget and Management Services**

- Meet with ES-Stormwater's GSI Advocate a minimum of once a year to discuss planned projects.

### **Engineering Services – Director**

- Meet with Department Directors and Division heads as needed to determine which projects to advance to construction or delegate this responsibility as appropriate.

### **Engineering Services – Raleigh Stormwater**

- Maintain the *Implementation Guide for the "Green Stormwater Infrastructure Evaluation Policy"*
- Provide technical assistance for compliance with this policy.
- Meet with ES-Stormwater's GSI Advocate a minimum of once a year to discuss planned projects.
- Contact ES-Stormwater's GSI Advocate at the conceptual planning phase of a project.



**CIP Teams in Engineering Services – Construction Management Division and Roadway Design & Construction Division; Housing and Neighborhoods; Parks, Recreation and Cultural Resources, Raleigh Water, Transportation, and other departments implementing capital improvements projects creating land disturbing activity.**

- Meet with ES-Stormwater's GSI Advocate a minimum of once a year to discuss planned projects.
- Contact ES-Stormwater's GSI Advocate at the conceptual planning phase of a project.

## **REFERENCES, RELATED DOCUMENTS, FORMS AND TOOLS**

*Implementation Guide for the "Green Stormwater Infrastructure Evaluation Policy"* - The Implementation Guide contains additional information regarding background of the policy, implementation procedure steps, documentation needs, and technical resources.

## **WEBSITE ADDRESS FOR THIS POLICY**

<https://corecon.raleighnc.gov/administrative-policiesand-regulations>

## **HISTORY AND UPDATES**

Date	Revision	Change	Reference Section
Insert Text Here	Insert Text Here	Insert Text Here	Insert Text Here
Insert Text Here	Insert Text Here	Insert Text Here	Insert Text Here

## **APPENDIX**

There are no appendices to this policy.

## **LEGAL NOTICES**

Nothing in this policy shall alter an employee's at-will status of employment with the City.

This policy shall not create liability on the part of the City or any officer or employee thereof for any personal injury or property damage that may result from reliance upon this policy or any administrative decision lawfully made pursuant to this policy.

If any provision of this policy is or becomes or is deemed to be invalid, illegal or unenforceable pursuant to applicable law, such provision shall be construed or deemed amended to conform to applicable laws, or if it cannot be so construed or deemed amended without materially altering the purpose or intent of the policy, such provision shall be stricken and the remainder of the policy shall remain in full force and effect.