



Transmittal

To: Wake County Stormwater Task Force Members

From: CDM Project Team

Date: October 17, 2006

Subject: Meeting 7 Materials

The next Wake County Stormwater Task Force meeting is scheduled for Thursday, October 19, 2006 from 6:00 PM to 8:00 PM in the first floor conference room of the Wake County Public Safety Building, just across Salisbury Street from the Wake County Office Building. As always, box dinners will be available starting at 5:30 PM.

Meeting #7 is the first scheduled meeting of the Tools and Strategies Module. The Project Team will be presenting a revised list of common objectives, developed from your comments at the last meeting. These common objective statements will serve as one basis for our identification, evaluation and comparison of the range of possible tools and strategies available to address stormwater management in Wake County. The project team will also introduce additional screening criteria that will be used to prioritize possible tools and strategies for more detailed evaluation in subsequent meetings, as well as a draft list of tools and strategies to be considered. Examples of how the screening criteria will be applied and the types of information that will be presented for prioritized tools and strategies will also be discussed. We will be seeking your input on the screening criteria, the draft list of tools and strategies, and the information presented for each tool and strategy at future meetings of the Tools and Strategies Module.

The enclosed materials are being provided for your review in advance of our meeting:

- Attachment A - Meeting #7 Agenda;
- Attachment B - Revised version of the Common Objective Statements;
- Attachment C - Proposed Tools and Strategies Screening Criteria;
- Attachment D - Working List of Tools and Strategies.

Please take a moment to review the enclosed information prior to the meeting. If you have any questions about the information or the process, please do not hesitate to contact Brenan Buckley of CDM (787-5620 or buckleyjb@cdm.com) or Britt Stoddard of Wake County (856-2641 or bstoddard@co.wake.nc.us). We'll see you on Thursday!

**Wake County
Collaborative Stormwater Management Evaluation
Stormwater Task Force Meeting #7**

**Public Safety Center
Ground Floor Conference Room**

October 19, 2006

Agenda

- 5:30 – 6:00** **Arrival, Sign-In, Dinner**
- 6:00 – 6:05** **Welcome from Commissioner Kenn Gardner**
- 6:05 – 6:15** **The Linkage between Issues, Common Objectives, and Tools & Strategies**
- 6:15 – 6:30** **Revised Draft Goals and Objective Statements**
- 6:30 – 6:50** **Draft List of Tools & Strategies**
- 6:50 – 7:40** **Presentation and Feedback on Proposed Screening Criteria and Process for Evaluating Tools & Strategies**
- 7:40 – 7:55** **Information Session: Sediment & Water Quality**
- 7:55 – 8:00** **Final Comments and Feedback**
- 8:00** **Adjourn**

**Wake County
Collaborative Stormwater Management Evaluation
Stormwater Task Force - Meeting #7
DRAFT Common Objective Statements**

The following are draft common objective statements for the Task Force that have been revised through the Work Group Discussion at Meeting #6

Economic Concerns

1. Reduce losses in property value resulting from structural flooding and nuisance flooding.
2. Reduce property damage resulting from both existing and future structural flooding, nuisance flooding, and erosion occurrences.
3. Reduce the cost impacts and disruptions to individuals, business and local governments resulting from structural, nuisance and roadway flooding.
4. Reduce long-term environmental restoration costs.
5. Eliminate legal liability due to non-compliance with environmental and drainage regulations.
6. Stormwater pollution should not cause secondary and cumulative impacts that limit development.
7. Comply with state and federal regulations.

Health and Safety Concerns

8. Reduce hazardous conditions resulting from structural or roadway flooding that threatens public safety.
9. Reduce the potential for illness from contact with local waters.

10. Protect local waters and supply sources from contamination and degradation to reduce treatment costs and to protect public health.
11. Reduce need for additional water supplies.
12. Ensure maintenance of existing stormwater infrastructure.

Environmental Concerns

13. Minimize degradation or loss of aquatic habitat and disruption of stream ecosystems resulting from increased runoff, water pollution and sediment loading to streams and restore streams on the 303(d) list.

Aesthetics/Quality of Life Concerns

14. Protect and improve the aesthetic appearance and increase accessibility for recreational activities associated with local waters in order to preserve a high quality of life.

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Proposed Tools and Strategies Screening Criteria

Screening Criteria	Considerations	Scoring Methodology
Compliance with Goals and Objectives	Goals and Objectives	To what extent (how many) does the tool address the goal and objective statements established by the Task Force?
Cost	Capital Costs	Does the tool require the construction of new facilities, structures or other improvements, or the purchase of real property?
	Operations & Maintenance Costs	Does the tool require a new, or an increased, annual budget allocation for field staff, equipment and resources for operations and maintenance?
	Administrative Costs	Does the tool require a new, or an increased, annual budget allocation for management and administration staff and resources?
	Economies of Scale	Can the tool be implemented through intergovernmental cooperation, and will the cooperation result in improved level of service, reduced costs, or both?
Ease of Implementation	Ordinance	Does the tool require a new ordinance, or modifications to an existing ordinance, in order to be implemented by local governments in Wake County?
	Use in County	To what extent (how many local governments) is the tool currently used by local governments in Wake County?
	Organization	Does the tool require new staff or organizational changes to accommodate implementation?
Equity	New and Existing Development	Can the tool be applied to new and existing development?
	Sources of stormwater	Does the tool address multiple sources of stormwater - specifically, non-residential, residential, and roadways?
	Proactive versus reactive	Does the tool address stormwater concerns after problem has been made evident, or does the tool address stormwater concerns before the problem has been made evident?
	Personal property	Does the tool affect the use of real property?

**Wake County
Collaborative Stormwater Management Evaluation
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Working List of Tools and Strategies

Tools and Strategies
PUBLIC EDUCATION
Public Education for Good Housekeeping (residential, non-residential & municipal)
Real Estate Disclosure
Stream Stewardship
ASSESSMENT & FORECASTING
Hydrologic and hydraulic modeling of drainage system (volume, velocity, elevation, etc.)
Water quality modeling for watershed (pollutant loadings)
DEVELOPMENT & REDEVELOPMENT STANDARDS
Minimize changes to the existing FEMA floodplain
Strategies to reduce impervious surfaces required for new development
Strategies to reduce impervious surfaces for existing development
Reducing impervious surfaces with zoning restrictions
Site-Level Flood Controls
Site-Level Water Quality Controls
Development or Watershed-Level Flood Controls
Development or Watershed-Level Water Quality Controls
Protection of sensitive and valuable natural areas
Planning and layout of development (cluster, etc.)
INSPECTIONS, OPERATIONS AND MAINTENANCE
Inspection and maintenance for stormwater facilities
Monitoring requirements for stormwater facility performance and operations
Material use, exposure and disposal for municipal operations
Material use, exposure and disposal for non-municipal operations
Hazardous material spill prevention/containment and enforcement
Hazardous material spill response and clean-up
Illicit discharge detection and elimination
SITE CONSTRUCTION CONTROLS
Design and maintenance standards for sedimentation and erosion control devices
Inspection and enforcement for sedimentation and erosion control devices
Application of S&E for agricultural operations
PRESERVATION, RESTORATION, REHABILITATION AND REPLACEMENT
Inspect, maintain and rehabilitate the sanitary sewer system
Rehabilitate the stormwater drainage system to address age and condition
Replace the stormwater drainage system to address capacity issues
Restore in-stream habitat and stream banks
Restore wetlands
Preserve stream buffers
Purchase properties located in the flood plain and remove from flood plain
Raise the finished floor of properties in the flood plain to above flood elevations
Preserve land through open space acquisition, conservation easements, etc.
Reduce the quantity of impervious surface area through retrofit projects
Construct regional flood control structures
Construct regional water quality improvement structures