



November 4, 2015

City of Burlington
Attention: Brady Goforth, PLS
425 South Lexington Avenue
Burlington, NC 27215

Subject: Sedimentation and Erosion Control Local Program Review

Dear Mr. Goforth:

On March 26, 2015, Tim Latham and Karyn Pageau conducted a review of the City of Burlington's Local Program. Two people contribute one full time equivalent to the erosion control program. The County reports having 14 active projects. The County completed 19 plan reviews with 11 approvals and 8 disapprovals last year. Staff has conducted 170 inspections, issued 3 notices of violations, and have not assessed any civil penalties in the past 12 months. During our review of the program, we reviewed 4 plans and inspected 4 projects located within the Jordan Lake Watershed.

The following is a summary of the projects that were inspected:

1. Drury Inn and Suites

This site consisted of a 2.33 acre commercial project. The file for this project included adequate supporting documentation, and the approved plan for this site was adequate. The last inspection was on 3/23/15 and the site was in compliance. The site was active at the time of the inspection and was **in** compliance.

Comments:

- 1) Silt fence and inlet protection are well maintained. Creative concrete washout area located onsite and is being used.
- 2) Continue to establish groundcover along the perimeter where possible.

2. Retreat at the Park Rural Retreat Road

This site consisted of a 13.0 acre multi-family residential project. The file for this project included adequate documentation, and the approved plan for this site was adequate. The last inspection was on 3/24/2015 and the site was called out of compliance. The site had received had no previous Notices of Violations. The site was actively being graded at the time of the inspection and was called **out** of compliance. A slight amount of offsite sediment was noted at the construction entrance. Violations included failure to follow

approved plan, failure to provide adequate groundcover, insufficient measures to retain sediment on site, failure to take all reasonable measures, and failure to maintain measures.

Corrective Actions:

- 1) Install inlet protection per height designated on plan. This height should be above grade and positive drainage should be provided to inlet as stated on the plan.
- 2) Provide adequate groundcover on all stockpiles located on site.
- 3) Area recently disturbed downstream of basin should be contained with sediment control structure or provided with groundcover immediately.
- 4) Maintain construction entrance and remove sediment from Rural Retreat Road.

Comment:

- 1) Continue to stabilize all bare and inactive areas.
- 2) Sediment removal was underway as we left this site.

3. Mackintosh On The Lake

This site consisted of a 23 acre residential project. The file for this project included adequate documentation and the approved plan was found to be adequate. The site had no previous Notices of Violations. The last inspection was on 2/25/2015 and the site was in compliance. The site was actively being graded at the time of the inspection and was found to be **out** of compliance. Violations included failure to follow approved plan, failure to take all reasonable measures, and failure to maintain measures.

Corrective Actions:

- 1) Repair/maintain perimeter berms and inlet protection.
- 2) Provide silt fence along tow of stockpile near FES#1 that is adjacent to buffer.
- 3) Stabilize perimeter stockpile.

Comment:

- 1) Contact DWR about gradation of stone that is lining streambanks at approved crossing.
- 2) Self-inspection/monitoring reports were up to date and looked good.

4. Quality Equipment

This site consisted of a 6.8 acre commercial project. The file for this project included adequate documentation and the approved plan was not adequate. The erosion and sediment control plan was approved and was not adequate (temporary sediment trap size for 3.3 acres). The last inspection was on 3/23/2015 and the site was in compliance. The site had no previous Notices of Violations. The site was actively being graded at the time of the inspection and was found to be **out** of compliance.

Corrective Actions:

- 1) Repair/maintain inlet protection and construction entrance.
- 2) Provide clean stone on slopes for pipe 14/15.

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Comments:

- 1) Provide adequate ground cover on all bare and inactive areas as per the new NPDES requirements.

Conclusion:

The City of Burlington's Local Program is visiting sites on a frequent basis and there files were very organized, which is appreciated. Comments made on previous formal review were being implemented by the program as evidenced in their inspection reports. The local program should implement the following recommendations to improve the program:

- 1) Request concrete washout area location and details through the plan review process.
- 2) Update the Construction Stormwater permit clause in the approval letter to reflect the most recently signed Permit NCG010000.

A summary of the review will be presented to the Sedimentation Control Commission (SCC) on November 12, 2015. Staff will recommend continued delegation. Thank you again for the efforts of you and your staff to protect the State's waters from sedimentation.

Sincerely,

Ashley Rodgers, PE
State Sedimentation Specialist

Karyn Pageau, EI, CPESC
Assistant State Sedimentation Specialist

cc: Matthew Gantt, PE, Winston-Salem Regional Engineer



Site 1 – Innovative concrete washout area – 2x10s, plywood, and billboard paneling.



Site 2 – Stockpile has inadequate groundcover.



Site 3 – Silt fence was supposed to be installed prior to fill placement near stream buffer.



Site 4 – Temporary Sediment Trap sized for 3.3 acres.