Local Program Report to the SCC  
Johnston County, January 16, 2019

On January 16, 2019 personnel from the NCDEQ, Land Quality Section, conducted a review of Johnston County’s Erosion and Sedimentation Control Program. Since our last review on November 1, 2018, the county has hired a new inspector as well as hired an outside consultant to help with plan reviews. The county now has three staff members currently contribute 1.5 full-time equivalents to the program. The county requires a sediment and erosion control plan for sites that have one acre or more of total land disturbance. Since the Nov. 1, 2018 review, the county has reviewed 16 plans, with 8 approvals, and 8 disapprovals. The county currently has 148 active projects. In this time frame, the county has conducted 41 site inspections, issued 3 Notices of Violation and 1 Stop Work Orders. There have been no Civil Penalty Assessments made in this time frame. The county continues to hold building inspections and plats as tools to bring sites back into compliance. During our review of the program, we reviewed three sets of plans that had been approved by the county after our review in November and inspected 3 sites.

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

1. **Holy Cross Lutheran Church (Plan Review Only)**

   This project consists of 3.2 acres and was being constructed for church/educational expansion. The file for this project included the FRO, plan, calculations, deed, and an approval letter. There were no inspection reports, as construction had not started. The erosion and sediment control plan was approved on January 11, 2019. The approved plan was adequate, containing all the appropriate details and calculations for the measures designed for the site. The plans were missing some existing topographic information and soil types, but the county used their GIS system to find that information while conducting their plan review.

2. **Star Valley Subdivision (Plan Review Only)**

   This project consists of 11 acres and was being constructed for residential development. The file for this project included the FRO, plan, calculations, deed, and an approval letter. There were no inspection reports, as construction had not started. The erosion and sediment control plan was approved on January 7, 2019. The approved plan was adequate, containing all the appropriate details and calculations for the measures designed for the site.

3. **Medlin Tract (Plan Review and Site Inspection)**

   This project consists of 18.45 acres and was being constructed for residential development. The file for this project included the FRO, deed, plan, calculations, and an approval letter. No inspections had yet been performed for this site. The erosion and sediment
control plan was approved on October 18, 2018. The approved plan was adequate. Construction started sometime in early November. During our site inspection, the site was out of compliance. Violations included failure to follow approved plan and insufficient measures to retain sediment on site. Some of the issues noticed were disturbed land outside of the approved limits of disturbance, check dams and dissipater pads missing from sediment traps and ditches per plan, silt fence not installed around all stockpiles, skimmer basin embankments were narrow, and there was no set of plans kept on site. Corrective actions needed include submitting a revised sediment and erosion control plan for the limits of disturbance and staging area, install all measures according to plans and details, install silt fence around all stock piles, and keep a set of plans onsite in an accessible location.

4. East School Road/ Ross Landing (Site Inspection Only)

This project consists of 38 acres and was being constructed for residential development. This site inspection was conducted as a follow up to the inspection from the previous review, where the site was found to be in violation of several of the sediment and erosion control rules. The site is currently under notices of violation. While the site was still out of compliance during our inspection, significant progress had been made to comply with the NOV. Ground cover had been established on slopes and large areas across the site, steep slopes had been regraded and reseeded, all offsite sediment had been cleaned up, silt bags had been reinstalled in curb inlets, super silt fence had been installed in areas where sediment had been going offsite, a pad was installed for the skimmer, and slope drains were repositioned. Violation of the previous inspection included: failure to follow the approved plan, failure to submit a revised plan, failure to provide adequate groundcover, failure to take all reasonable measures, graded slopes and fills too steep, unprotected exposed slopes, failure to maintain measures, and failure to self-inspect. The violations of this inspection included: failure to follow approved plan, failure to submit a revised plan, failure to provide adequate groundcover, failure to take all reasonable measures, and failure to maintain measures. The County stated they were ready to take enforcement action depending upon the results of their inspection in the first week of January; however, they felt that a civil penalty would not be issued at this time due to the progress seen during this inspection. The County has kept the current NOV open.

5. Jordan Narron Rd (Site Inspection Only)

This project involves a road expansion that is near completion. All construction has finished and they are just trying to establish stable groundcover for the entire site. Johnston County is keeping the permit open until stable groundcover has been achieved. The site was in compliance during our visit.
Conclusion:

During our review, we found plan reviews had improved as well as the quality and number of site inspections conducted, inspection reports written, and NOVs issued had increased. The County should implement the following recommendations to improve the program:

1) Continue to attend state-provided workshops to keep staff education current.

2) Continue to use Regional Office and Central Office as a resource to help with potential trouble sites.

3) Continue to grow your program in order to handle the increasing number of active projects in your area.

Overall, the Johnston County Program has seen vast improvements. Approved plans have been adequate and containing all the necessary documents, details, and calculations. Notices of Violations are being issued, and have the appropriate enforcement language. County staff are reaching out to the DEQ Raleigh Regional Office for assistance with NPDES violations. Inspection reports are providing appropriate corrective actions, and are properly documenting site conditions. Staff attended both the 2018 Local Programs and Planners Workshops.

Based on the review, staff will recommend to end the review of the “Sediment and Erosion Control Program” of Johnston County and place the program on continuing delegation.

This report has been prepared based on the review of Johnston County’s Local Program. This report will be presented to the Sedimentation Control Commission (SCC) on February 7, 2019.
SEDIMENTATION INSPECTION REPORT

North Carolina Department of Environmental Quality
Division of Energy, Mineral and Land Resources

County: __Johnston_______ Project: ___Medlin Tract_______ River basin: ___Neuse_____

Person financially responsible: ___________________________________________ Project #: Johnston County Program

Address: SR 1716 __________________________________________________________________________
Case # ____________________________

1. Project location:

   Pictures: No: ☐ Yes: ☑ Video: ☐ Digital: ☑

2. Weather and soil conditions: Sunny, workable soils

   First inspection: Yes: ☑ No: ☐

3. Is site currently under notice of violation? Yes: ☐ No: ☑

4. Is the site in compliance with S.P.C.A. and rules? Yes: ☐ No: ☑

   If no, check violations below:

5. Violations:

   a. No approved plan, G.S. 113A-57 (4) and 15A N.C.A.C 4B.0107(c)
   b. Failure to follow approved plan, G.S. 113A-57(5)
   c. Failure to submit revised plan, G.S. 113A-54.1(b) and 15A N.C.A.C. 4B.0118(a)
   d. Failure to provide adequate groundcover, G.S. 113A-57(3) and 15A N.C.A.C. 4B.0107(b) or 15A N.C.A.C. 4B.0124(e)
   e. Insufficient measures to retain sediment on site, G.S. 113A-57(3)
   f. Failure to take all reasonable measures, 15A N.C.A.C. 4B.0105
   g. Inadequate buffer zone, G.S. 113A-57(1)
   h. Graded slopes and fills too steep, G.S. 113A-57(2) or 15A N.C.A.C. 4B.0124(d)
   i. Unprotected exposed slopes, G.S. 113A-57(2)
   j. Failure to maintain measures, 15A N.C.A.C. 4B.0113
   k. Failure to self-inspect G.S. 113A-54.1(c) and 15A N.C.A.C. 4B.0131
   l. Other (describe)____________________________

6. Is the site in compliance with NPDES Permit NCG 010000? Yes: ☐ No: ☑ Not Applicable ☐

   If no, check violations below:

   m. Failure to manage construction site pollutants, NCG 010000 Sec. II, B.1
   n. Failure to provide ground stabilization, NCG 010000 Sec. II, B.2
   o. Failure to maintain rain gauge or record daily rainfall, NCG 010000 Sec. II, B.1(a,b)
   p. Failure to meet self-inspection and reporting requirements, NCG 010000 Sec. II, B.1(c-i)
   q. Failure to dewater sediment basin from surface, NCG 010000 Sec. II, B.4
   r. Failure to have approved plan and NPDES permit on site, NCG 010000 Sec. III, 3(d)
   s. Failure to install and maintain BMP’s, NCG 010000 Sec. III, 4
   t. Failure to operate and maintain control measures, NCG 010000 Sec. IV, 1
   u. Bypass of stormwater control facilities, NCG 010000, Sec. IV, 3
   v. Other (describe)____________________________.

7. Has sedimentation damage occurred since last inspection or at 1st inspection? Yes: ☐ If yes, where? (check all that apply) No: ☑

   Lake/natural watercourse on the tract: ☐ Lake/natural watercourse off the tract: ☐ Other property: ☐

   Description: ______________________________________________________________

   Stormwater Discharge Outfall with sediment loss: _____________________________

   Degree of damage: slight: ☐ moderate : ☐ severe : ☑

8. Contact made with (name): __________________________ Title: ______________________

   Inspection report given: ☐ or sent: ☑ to person financially responsible. Date given/sent: __________________________

9. Corrective actions needed:

   Revised plan for limits of disturbance and staging area.
   Check dams and dissipation pads for sediment traps per plans.
   Silt fence around all stock piles.
   Check dam in roadside ditch before drive.
   Keep set of plans on site.

Report by: __Taylor Young______ Others present: ___DEQ-DEMLR Staff, Johnston County Staff_______

Date of inspection: __1/16/2019__ Time arriving on site: ______4:00 pm____ Time leaving site: _____5:10 pm_____

cc: ___________________________________________ Page 1 of __2__
9. Corrective actions needed (continued)

☐ Submit an adequate sedimentation and erosion control plan for approval, covering all areas disturbed or to be disturbed.

☐ Install all sedimentation and erosion control measures as shown on the approved plan.

☑ Submit a revised sedimentation and erosion control plan for approval for the following areas: See Corrective actions needed

☐ Provide adequate permanent ground cover on all areas where development has been completed according to the time limits in the approved plan, including the following areas:

☑ Install erosion and sediment control devices sufficient to retain sediment on the tract at the following areas: See Corrective actions needed

☐ Install temporary sediment traps or basins and associated diversions as shown on the approved plan, including the following locations:

☐ Install adequate drop inlet protection as shown on the approved plan, including the following locations:

☐ Provide an adequate stream buffer zone of sufficient width to confine visible sedimentation within the 25% of the buffer nearer the land disturbance using natural or artificial means (minimum 25-foot width in Trout Waters) including the following areas:

☐ Reduce the angle of graded slopes to an angle on which vegetative ground cover may be established including the following locations:

☐ For disturbed areas less than one acre, provide adequate temporary or permanent ground cover on all graded slopes where rough or fine grading has been completed for 21 calendar days, including the following locations:

☐ Maintain all sedimentation and erosion control measures as specified in the approved plan and as required to prevent sedimentation damage including the following locations:

☐ Properly handle concrete to avoid contact with surface waters, wetlands or buffers and prevent discharge from site.

☐ Relocate soil stockpiles at least 50 feet away from storm drain inlets or surface waters.

☐ Provide adequate temporary or permanent ground cover on areas where land-disturbing activity has ceased in 7 or 14 days according to NCG 01000 permit conditions at the following areas:

☐ Provide sediment basins with a drainage area of one acre or greater with a skimmer or flashboard riser.

☐ Inspect all erosion and sedimentation control measures and storm discharge outfalls at least weekly and within 24 hours of a rainfall event of ½ inch or greater and complete self-monitoring reports.

☐ Maintain a rain gauge in good working order and record daily rainfall amounts.

10. Comments:

☐ No construction entrance – removed to place stone for roadway. Disturbed area outside LOD for staging and parking – need revised plan and measures for this area. Self inspection records – first 11/12, latest 1/4 (no issues noted). Site active when we inspected. Plan set not in box, kept in superintendent’s truck. Silt fence not around entire stockpile. Missing check dams and dissipation pads for sediment traps. The basin on the far side of the project looked to have undersized embankments.

☐ Permanent ground cover sufficient to restrain erosion has been established. No additional self-monitoring or self-inspections are required. Project is released and coverage under NPDES General Stormwater Permit for Construction Activities is terminated.

Report by: Taylor Young Date of inspection: 1/16/2019 Page 2 of 2
SEDIMENTATION/CONSTRUCTION STORMWATER INSPECTION

North Carolina Department of Environmental Quality
Division of Energy, Mineral and Land Resources: 3800 Barrett Drive, Raleigh, North Carolina 27609, (919) 791-4200

County: Johnston  Project: East School Road-Flowers Plantation (Ross Landing)  River basin: Neuse
Person financially responsible: Dan Ryan Builders NC, LLC Attn: Jay Lewis, VP  Project #: JOCO Local Program
Address: 3131 RDU Center Drive, Suite 120, Morrisville, NC 27560  Case #

1. Project location: East School Road  Pictures: No: ☑  Yes: ☐  Video: Digital: ☑

2. Weather and soil conditions: sunny, dry workable  First inspection: Yes: ☑  No: ☐

3. Is site currently under notice of violation? Yes: ☑  No: ☐

4. Is the site in compliance with S.P.C.A. and rules? Yes: ☑  No: ☐  If no, check violations below:
   a. No approved plan, G.S. 113A-57 (4) and 15A N.C.A.C 4B.0107(c)
   b. Failure to follow approved plan, G.S. 113A-57(5)
   c. Failure to submit revised plan, G.S. 113A-54.1(b) and 15A N.C.A.C. 4B.0118(a)
   d. Failure to provide adequate groundcover, G.S. 113A-57(3) and 15A N.C.A.C. 4B.0107(b) or 15A N.C.A.C. 4B.0124(e)
   e. Insufficient measures to retain sediment on site, G.S. 113A-57(3)
   f. Failure to take all reasonable measures, 15A N.C.A.C. 4B.0105
   g. Inadequate buffer zone, G.S. 113A-57(1)
   h. Graded slopes and fills too steep, G.S. 113A-57(2) or 15A N.C.A.C. 4B.0124(d)
   i. Unprotected exposed slopes, G.S. 113A-57(2)
   j. Failure to maintain measures, 15A N.C.A.C. 4B.0113
   k. Failure to self-inspect G.S. 113A-54.1(e) and 15A N.C.A.C. 4B.0131
   l. Other (describe) _______

5. Is the site in compliance with NPDES Permit NCG 010000? Yes: ☑  No: ☐  Not applicable: ☐  If no, check violations below:
   m. Failure to manage construction site pollutants, NCG 010000 Sec. II, B.1
   n. Failure to provide ground stabilization, NCG 010000 Sec. II, B.2
   o. Failure to maintain rain gauge or record daily rainfall, NCG 010000 Sec. II, B.3(a,b)
   p. Failure to meet self-inspection and reporting requirements, NCG 010000 Sec. II, B.3(c-i)
   q. Failure to dewater sediment basin from surface, NCG 010000 Sec. II, B.4
   r. Failure to have approved plan and NPDES permit on site, NCG 010000 Sec. III, 3(d)
   s. Failure to install and maintain BMP’s, NCG 010000 Sec. III, 4
   t. Failure to operate and maintain control measures, NCG 010000 Sec. IV, 1
   u. Bypass of stormwater control facilities, NCG 010000, Sec. IV, 3
   v. Other (describe) Failure to implement the erosion and sedimentation control plan. The Permittee must implement and follow the erosion and sedimentation control plan. The approved erosion and sedimentation control plan is considered a condition of Construction Stormwater Permit NCG 010000. NCG 010000 Section III. 3) (a)

6. Has sedimentation damage occurred since last inspection or at 1st inspection? Yes: ☑  If yes, where? (check all that apply) No: ☐
   Lake/natural watercourse on the tract: ☐  Lake/natural watercourse off the tract: ☐  Other property: ☐
   Description: (note - no additional off-site sedimentation)
   Stormwater Discharge Outfall with sediment loss: _______
   Degree of damage: slight: ☐  moderate: ☐  severe: ☑

7. Contact made with (name): Randy Talton  Title: Dan Ryan Homes
   Inspection report given: ☑  or sent: ☐  to person financially responsible.  Date given/sent: 01/22/2019

8. Comments: Site is under Johnston County Local Program's jurisdiction for sediment and erosion control. See page 2 for Corrective Actions. NOV dated August 13, 2018, and Notice of Continuing Violation dated September 20, 2018, are still in effect. Significant progress has been made to comply with the NOV/NOCV, including recent seeding of large areas of the site (including slopes), reinstalling silt bags in curb inlets, repositioning of slope drains, adding super silt fencing, installing pad for skimmer, and regrading steep slope. However, additional work is needed to satisfy all the requirements of NOV/NOCV.

☐ Permanent ground cover sufficient to restrain erosion has been established. No additional self-monitoring or self-inspections are required. Project is released and coverage under NPDES General Stormwater Permit for Construction Activities is terminated.

☑ See page 2 for Corrective Actions

Report by: Kimberly Summers  Others present: Julie Coco (DEMLR), Taylor Young (DEMLR), Charles Pender (JOCO), Shannon Stanley (JOCO), Chandra Farmer (JOCO)

Date of inspection: 01/16/2019  Time arriving on site: 2:05  Time leaving site: 3:40

cc:       Page 1 of 2

Rev. Date 05/27/2016
9. Corrective actions needed for:

S.P.C.A. and rules:

☐ Submit an approvable sedimentation and erosion control plan, including appropriate review fee, covering all areas disturbed or to be disturbed.

☐ Install all sedimentation and erosion control measures as shown on the approved plan.

☒ Submit a revised sedimentation and erosion control plan.

☐ Provide adequate permanent ground cover on all areas where development has been completed according to the time limits in the approved plan.

☐ Install erosion and sediment control devices sufficient to retain sediment on the tract.

☐ Install temporary sediment traps or basins and associated diversions as shown on the approved plan.

☐ Install adequate drop inlet protection as shown on the approved plan.

☐ Provide an adequate stream buffer zone of sufficient width to confine visible sedimentation within the 25% of the buffer nearer the land disturbance using natural or artificial means.

☐ Reduce the angle of graded slopes to an angle on which vegetative ground cover may be established.

☐ For disturbed areas less than one acre, provide adequate temporary or permanent ground cover on all graded slopes where rough or fine grading has been completed for 21 calendar days.

☒ Maintain all sedimentation and erosion control measures as specified in the approved plan and as required to prevent sedimentation damage.

NPDES Permit NCG 010000:

☒ Properly handle concrete to avoid contact with surface waters, wetlands or buffers and prevent discharge from site.

☒ Relocate soil stockpiles at least 50 feet away from storm drain inlets or surface waters.

☒ Provide adequate temporary or permanent ground cover on areas where land-disturbing activity has ceased in 7 or 14 days according to NCG 01000 permit conditions.

☐ Provide sediment basins with a drainage area of one acre or greater with a skimmer or flashboard riser.

☐ Inspect all erosion and sedimentation control measures and storm discharge outfalls at least weekly and within 24 hours of a rainfall event of 0.5 inch or greater and complete self-monitoring reports.

☐ Maintain a rain gauge in good working order and record daily rainfall amounts.

10. Additional Corrective Actions: 1) Several ESC measures need to be maintained or repaired including skimmer basin, silt fencing, silt fence outlets, and inlet protection. Silt fencing should be toed in. Baffles should be replaced in skimmer basin. Stone should be added to silt fence outlet below pump station. Stone should be added to DIP. 2) Concrete washout needs signage, a gravel entrance, and the liner secured in the proper location around all sides. 3) Remaining eroded areas should be repaired and stabilized. 4) Reseeding is needed in areas where temporary vegetation has died. Unvegetated inactive areas must have temporary ground cover. 5) Stockpiles should be moved at least 50 feet from any drop inlet or open water channel. 6) A revised sediment and erosion control plan still needs to be submitted address changes planned to stabilize the slope.

Report by: Kimberly Summers

Date of inspection: 01/16/2019

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NOTICE OF VIOLATIONS OF THE
SEDIMENTATION POLLUTION CONTROL ACT

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Jay Lewis, Vice President
Dan Ryan Builders-North Carolina, LLC
3131 RDU Center Drive, Suite 201
Morrisville, NC 27560

RE: Project Name: East School Road @ Flowers Plantation
   Project ID: JC 17-102-P
   Project Location: East School Road
   County: Johnston
   Compliance Deadline: 15 Days from receipt

To Whom It May Concern:

On 12/13/2018, personnel of this office inspected the above referenced project. This inspection was performed to determine compliance with the North Carolina Sedimentation Pollution Control Act (Act) of 1973. The inspection revealed a land-disturbing activity of approximately 38 acres being conducted.

The purpose of this letter is to inform you that this activity was found to be in violation of the SPCA, G.S. 113A-50 to 66, Title 15A, North Carolina Administrative Code (NCAC), Chapter 4. If you feel that you are not responsible for the following violations, please notify this office immediately.

The violations of the SPCA that were found are:

a. Failure to file an acceptable, revised plan after being notified of the need to do so. G.S. 113A-54.1 (b) and 15A NCAC 4B .0118 (a). Submit revised plans showing individual lot measures as well as how the steep slope will be stabilized.

b. Failure when a land-disturbing activity that will disturb more than one acre is undertaken on a tract, to provide a permanent ground cover sufficient to restrain erosion on such
exposed areas within 15 working days or 90 calendar days, whichever is shorter, after completion of construction or development. G.S. 113A-57(3) and 15A NCAC 4B .0107(b). Ground cover is not sufficient to retain erosion.

c. Failure to maintain on graded slopes and fills, an angle which can be retained by vegetative cover or other adequate erosion control devices or structures. G.S. 113A-57(2) and (if in HQW Zone) 15 NCAC 4B .0124(d). The large slope is not stabilized adequately. The slope should be stabilized and vegetated.

d. Failure within 21 calendar days of completion of any phase of grading, to plant or otherwise provide exposed graded slopes or fills with temporary or permanent ground cover, devices, or structures sufficient to restrain erosion. G.S. 113A-57(2). Slopes are not stabilized adequately to restrain erosion. Slopes must be stabilized.

e. Failure to install and maintain all temporary and permanent erosion and sedimentation control measures as required by the approved plan or any provision of the Act, and rules adopted thereunder, during or after the development of a site. 15 NCAC 4B .0113. Maintain erosion control measures on site to include but not limited to the concrete washout, silt fence outlets, inlet protection, skimmer basin, etc.

To correct these violations, you must:

1. Submit revised plans showing the erosion control measures for the individual lots as well as how to better stabilize the steep slope.
2. Muck the sediment and refresh yard inlets that have sediment accumulation with 18” of clean stone.
3. Repair and stabilize all eroded areas and provide measures to prevent additional erosion. This was noted throughout the site especially where the streets were cut in but not completed, the northeast portion of the site as well as the west side of the site.
4. Sweep the streets.
5. Repair the liner in the concrete wash out pit and remove the concrete that was poured outside the pit.
6. Stabilize the steep slope on the north side of the project. The slope must be graded at an angle that can retain vegetative cover or other adequate erosion control measures to establish temporary or permanent ground cover.
7. Muck and refresh the silt fence outlets downslope of all eroded areas.
8. Muck skimmer sediment basin 1.
9. Establish temporary or permanent ground cover on all bare or sparsely vegetated portions of the site including, but not limited to the spoil piles, slopes, riparian buffer, etc.

Please note that merely planting grass seed does not satisfy the requirements of "vegetative cover" or of "ground cover sufficient to restrain erosion." These requirements are not satisfied until an adequate cover of grass or other ground cover (such as properly applied and secured, mulched
Notice of Violations
Dan Ryan Builders-North Carolina, LLC
12/19/2018
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seeding or appropriate rip-rap) is established which is, in fact, sufficient to restrain accelerated or man-made erosion.

We request that you complete all corrective actions no later than 15 days after the receipt of this letter. Please be advised that any new land-disturbing activity associated with this project should not begin until the area presently disturbed is brought into compliance.

When corrective actions are complete, you should notify this office so that work can be inspected. You should not assume that the property is in compliance with the Ordinance until we have notified you. We solicit your cooperation, and would like to avoid taking further enforcement action. Please be aware that the violations cited herein may be subject to civil penalties of up to $5,000 per violation per day beginning from the date of the violation.

Should you have questions concerning this notice or the requirements of the Johnston County Erosion and Sediment Control Ordinance, please contact Jessica Batten at (919) 209-8333 or via email at jessica.batten@johnstonnc.com.

Sincerely,

[Signature]
Jessica Batten, EI
Development Engineer/ Stormwater Manager

Enclosures: Sedimentation Inspection Report
Photos

cc: Julie Coco, PE, CPESC-NCDEQ via email
    Chandra C. Farmer, PE via email