

# North Carolina Department of Transportation Roadside Environmental Unit Erosion & Sedimentation / Stormwater Report

## ICA

### Immediate Corrective Action

*This project does not comply with the North Carolina Erosion and Sedimentation Control laws. Immediate Corrective Action is needed to resolve the situation to full compliance with the Law: (T15A: 04B.0000).*

#### Project Information

**Inspection Date:** 09/10/2020      **Evaluator:** Donald Pearson  
**Project #:** 34552.3.5      **TIP #:** R-3825B      **Contract #:**  
**Division #:** 4      **County:** Johnston  
**Project Type:** Contract      **Engineer:** Smithfield Resident  
**Project Length:** 4.60      **Disturbed Acres:** 0  
**River Basin:** Neuse      **HQW Zone:** NO      **Trout Zone:** NO  
**Location Description:** DP - NC 42 from East of Glen Laurel Road to Buffalo Road

#### Project Evaluation

**Report Type:**     Routine     ICA     ICA Ex 1st     ICA Ex 2nd     CICA - SWO  
                           PCN             ECPAR

Length	Section	Installation of BMPs	Maintenance of BMPs	Effectiveness of BMPs	Plan Implementation	Overall Project Evaluation
3.6	Sta:153+/- to End	7	6	6	7	6
1.0	remainder of Project	--	--	--	--	--

Grading Scale: 0 - 6 = Immediate Corrective Action Required, 7 = Fair, 8 = Good, 9 = Very Good, 10 = Excellent

#### **ICA Comments:**

Project is being issued an ICA for failure to adequately install and maintain EC measures throughout project limits. A follow up review will be conducted on September 16.

#### **Remarks and Recommendations:**

Met with Ryan, Alex, Dustin, Jeff, Chis, Wayne, Dock, and Donnie either yesterday or today to discuss project condition. Review of project began yesterday and continued today. I did not review entire project as items discovered warranted an ICA prior to finishing the review. Recommend items listed below as well as any outstanding items noted on NPDES inspection records or those identified by project inspectors be completed before September 16, 2020.

I did not review NPDES inspection documents but encourage Resident Engineer's office review with contractor to see if the SDO locations are being properly inspected and documented.

All items listed below should be considered URGENT or High priority.

L-line Sta:153+/- to End

Rt:153+/- to Driveway is eroding significantly - grade to manage runoff properly so intermediate EC measures can be installed.

Rt:154+/- has poorly installed Type A Rock Silt Check below driveway pipe - needs proper width and weir section.

Rt:154+/- Maintain rock checks below slope drain

Basin ID 15.1 is full of sediment and has been for a while considering the vegetation growing in the accumulated sediment. Skimmer head is almost completely buried in sediment. Rebuild this device as needed.

Special Sediment Control Fence outlet below this basin has failed releasing stone and sediment into permitted area. Repair and cleanup material.

Cleanout skimmer Basin sta:167+/-

Complete basin cleanout sta:168+/- and replace stone.

Significance silt loss has occurred Rt:168+/- adjacent to stream in buffer. Crews are actively cleaning it up.

Recommend talking to Chad Coggins about cleanup and whether additional material needs recovered.

Remove sandbags and geotextile lost into the stream at culvert outlet.

Remove contaminated rock in ditch Rt:168+/- and consider small basin as needed.

Clean out Basin ID 16.1

Basin ID 16.3 still has orifice plug still zip tied to the side of the skimmer head. Please install orifice and clean up accumulated silt near weir section of basin.

Repair and or reset geotextile lined ditch line about 174+/- to 180+/-

Need construction pad Rt:172+/- where vehicles are tracking dirt onto roadway.

Rt:173+/- has area between fill slope and berm for neighborhood funneling sediment from our project onto private property. Recover sediment as needed and install a Type A Rock Silt Check. Crews providing temporary groundcover today.

Lt:188+/- has sag in topo and significant sediment has built up on silt fence - maintain and install rock outlet as needed.

Groundcover needed on raw areas Lt: 190-195+/-

Maintain rock checks Rt:185-190+/- and grade roadbed to drain to these devices.

Rebuild tiered skimmer Basin ID 18.3.

Rebuild Type A Rock Inlet Protection on pipe Rt:201+50 and recover lost sediment at edge of pond on outlet end of pipe.

Reset turbidity curtain in pond Lt:202+/-

CWD Lt:223+/- to 229+/- is intended to keep clean off site water separate from runoff generated on project limits. Extend and stabilize area below CWD as needed.

Basin ID 21.2 was not built correctly. Orifice plug is still zip tied to the side of the skimmer head, the geotextile was not trenched in, there has not been sealant placed around barrel pipe through geotextile and berm, and no coir fiber matting has been placed at outlet.

Pursue groundcover on raw area Lt:230+/-

Basin ID 21.2 was not built correctly. Orifice plug is still zip tied to the side of the skimmer head, the geotextile was not trenched in, there are seams in layers of geotextile on front side of weir, and there isnt any sealant around barrel pipe through berm and weir.

Loose fill is being pushed into wetland area Rt:230+/- increasing risk as there is only a PIST A protecting existing 24-inch pipe which discharges into a pond off the ROW. Spoke to Dustin and Chis on site about options for containment and runoff management.

Scour is developing around Basin ID 21.5 and Basin ID 22.1.

Existing pipe outlet Rt:243+50- is causing erosion issues around Basin ID 22.1. Is this discharge from offsite? If so, can the water be routed through project via lined ditch?

#### Y11A

Need proper management of runoff from our project onto Y line and more specifically to drainage structures. Currently water is allowed to bypass the measures. Use sandbag berm, silt fence containment, etc... to capture and impound runoff. There is a fairly large section of ABC covered area available for some creative collection of runoff.

#### Borrow pit

Avoid vertical slopes. Groundcover required on unworked slopes steeper than 3:1 in 7 days. See EC plans sheet EC -03.

#### Waste pit

Waste material has been piled up within feet of overhead power lines. Safety issue? Approved reclamation plan indicated the height would be no more than 22 feet. Recommend checking that as the pit appears to be taller than that.

Replace rotten baffles in Basin. Expand use of PAM to help with turbidity in this basin. Also check the skimmer head to be sure it is not clogged. It should be actively draining today based on its elevation, but no water is

discharging.

Majority of this pit is raw and in need of completed slopes with permanent vegetation established. 7 Day time frame for raw unworked slopes steeper than 3:1 has likely been surpassed. Pursue proper stabilization.

Trucks are generating a lot of track out from this pit as well. Rebuild construction pad as needed and consider suspending hauling.