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:	07/07/2017	**Evaluator:**	Donald R. Pearson		
Project #:	DF15004.2096128	**TIP #:**	C203968		
Division #:	4	**County:**	Wayne		
Project Type:	Contract	**Engineer:**	Smithfield Resident		
Project Length:	0.20	**Disturbed Acres:**	0		
River Basin:	Neuse	**HQW Zone:**	NO	**Trout Zone:**	NO
Location Description:	Bridge #156 over Raynor Mill Branch on SR 1101 Raynor Mill 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
0.2	The Entire Project	6	6	6	6	6

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

Remarks and Recommendations:

Met Jessica, Burt, Larry, and Jeff on site. Spoke to Brandon and Ryan by phone.

Project is being issued an ICA today. See comments below for guidance on corrective actions. I sent a copy of these items to Jessica via email prior to leaving the site to allow contractor to begin addressing deficiencies as soon as possible.

- Raw area behind silt fence Lt:10+50 needs stabilization. Appears to be related to a water valve. Provide groundcover or containment.
- Lt:12+/- Large stockpile of soil has been placed within 50 ft of jurisdictional stream. NPDES requires all stockpiles to be located 50 ft away from jurisdictional areas. Discussed this with contractor on site and the difficulty of moving pile due to equipment being on opposite side of stream. I understand challenge and agreed that silt fence appropriately installed should provide proper containment. Stockpile needs groundcover within 7 days of placement considering steepness of slope.
- Rt:12+/- SSCF outlet needs proper repair/maintenance.
- Raw fill material has been placed Rt:12+50 . Silt fence was either removed or covered up by this action leaving this area vulnerable to sediment loss. The silt fence containment needs reinstalled per EC plan.
- Stream bank Lt:13+/- adjacent to existing abutment for previous structure has been disturbed and rough graded along stream. This slope should not be exposed to live stream flow. Pursue seeding and matting or application of geotextile or similar to separate raw area from jurisdictional water. Similar request was made

last month on EC report. The opposite side of stream has been seeded and matted properly and looks good.
- Rt:13+60 raw area adjacent to end bent is not contained by silt fence and vulnerable to washing off project. Reinstall silt fence per EC plan.
- Rt:14+/- repair tear/hole in silt fence.
- Lt:15+/- silt fence has been knocked down and nearby SSCF outlet covered up with raw soil. This area needs prompt repair/maintenance

Contractor is using a Concrete Washout structure that has a porous geotextile allowing the slurry to pass through while collecting the solids. This type of collection system is not consistent with the Concrete Washout Provision. Please review the provision and provide proper wash out collection system.

Contractor was to begin addressing items before leaving site today. I will inspect site Monday afternoon to determine if ICA can be lifted.

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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:	07/27/2017	Evaluator:	Todd Hiatt		
Project #:	34518.3.FR3	TIP #:	R-2915C		
Division #:	11	County:	Ashe		
Project Type:	Contract	Engineer:	North Wilkesboro District (3)		
Project Length:	3.97	Disturbed Acres:	20		
River Basin:	New	HQW Zone:	YES	Trout Zone:	YES
Location Description:	US-221 From North of South Fork New River to South of NC-194				

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
0.2	Christopher Moore Waste Site	7	6	6	6	6
3.97	The Entire Project	7	7	7	7	7

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

Remarks and Recommendations:

Project is out of compliance due to failure to install and maintain erosion control devices and failure to take all reasonable measures to prevent off-site sedimentation in accordance with section 107-12 of the Standard Specifications and the Sedimentation Pollution Control Act.

PROJECT RECOMMENDATIONS

Met on site with NCDOT inspectors Jim Holloway and Greg Hamm. Also met with Jim Smith (Project Manager with Vecellio) at the Christopher Moore Waste Site.

Project is out of compliance due to the failure to install and maintain adequate EC measures and failure to take all reasonable measures to prevent off-site sediment. The contractor has not been managing runoff, as directed by the reclamation plan, at the Christopher Moore Waste Site during construction. This has resulted in a sediment loss and high levels of turbidity into a stream.

-The reclamation plan for this site directed that runoff be diverted with temporary diversions into skimmer basins. The plan called for a haul road to be constructed between the two skimmer basins. However, bedrock was encountered, thus making the haul road ungradable and too steep to use. The haul road was rerouted

around the northern skimmer basin which prevented a large area of the waste site from draining to this basin. A silt fence with two SSCF outlets (SDOs) were used to treat the runoff from this area before leaving the site. These outlets have been overtopped and severely damaged during recent rain events, which has resulted in a sediment loss. Recommend repairing the silt fence and SDOs at the toe of slope. Repair any erosion on this slope and stabilize with seed and matting. Install TSD with adequately spaced TRSC-As and silt basins along the top of the stabilized slope. Direct TSD into the skimmer basin per plan. This will require that runoff be piped under the haul road that is being used. The concern for potential sediment loss and erosion at this site was addressed in the previous inspection report.

-Reestablish/maintain the TSD leading to the skimmer basin on the south end of the Christopher Moore Waste Site. Ensure this TSD is diverted into the first bay of the skimmer basin. This basin should also be cleaned out and maintained.
-ESA at Sta. 358+25 LT - Install EC devices per plan. The silt fence has been removed and this area is currently unprotected.
-ESA at Sta. 379 to 381 LT - Contractor has begun grubbing adjacent to a tributary that leads to Old Field Creek. No EC devices have been installed.
-ESA at Sta. 373 to 375 LT - Contractor has begun clearing and grubbing adjacent to Ira Jordan Rd. Silt fence protecting Old Field Creek has not been installed per plan.
-Install skimmer basins at the Joseph Starnes and Stephen Miller Waste Sites per plan. These sites have been completely cleared and grubbed. Skimmer basins are not yet in place.
-ESA at Sta. 299 RT - The silt fence at the outlet of the skimmer basin has been overtopped with sediment. Utilize TSD along the slope and slope drain to direct runoff into the first bay. Remove accumulated sediment and repair silt fence.
-Install TDs to direct runoff from the Donald Blackburn Waste Site per plan. Much of the disturbed slope at this site is being treated by silt fence and SSCF outlets.
-Sta. 282 +/- LT - Maintain SSCF outlet that is full of sediment.
-Maintain TRSC-As in the ditchline along Y4 LT (Windy Hill Road).
-Sta. 368 LT - Maintain skimmer basin 12.1. Remove sediment from the basin and from the ditchline at the outlet. Ensure that TRSC-As with PAM are installed and maintained in the ditchline from Sta. 364 to 368 RT.
-Maintain skimmer basin 10.3 - Utilize slope drains to divert runoff into the basin to prevent erosion on the interior slopes.
-Repair erosion on slopes at Sta. 333 LT. Ensure slope is compacted and stabilized.
-Sta. 267 +/- LT - Install slope drain and outlets per plan.

General Comments
**Make sure that runoff at waste sites is diverted into skimmer basins according to plan. If the plan is unable to be implemented due to constructability issues, then the plan should be revised by someone with a level III certification.
**Ensure that any disturbed areas adjacent to jurisdictional areas are protected with silt fence. The silt fence should be placed along the top of bank in areas protecting stream.
**Ensure that the soil stabilization timeframes as stated on EC-3 of the plans and EC-1 of the proposal are followed throughout the life of the project.
-Install EC devices according to plan. Any revisions should be approved by the engineer. Keep as-built plans up to date.
-NPDES records were not reviewed during the project inspection. Ensure all corrective actions are documented on NPDES forms. Continue to perform inspections once every 7 days and after a 0.5" rainfall event within 24 hrs.
-Add SDOs at the waste areas to the NPDES forms as directed by the DEO.
-The DEO reviewed this project in the field Thursday and Friday and concurs with this report.

-Project will be reviewed again for compliance in 5 working days.