

# 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:** 11/04/2019      **Evaluator:** Reid Whitehead  
**Project #:** 17BP.13.R.157      **TIP #:**      **Contract #:** DM00279  
**Division #:** 13      **County:** McDowell  
**Project Type:** Contract      **Engineer:** Marion Resident Engineer's Office  
**Project Length:** 0.25      **Disturbed Acres:** 1  
**River Basin:** Catawba      **HQW Zone:** NO      **Trout Zone:** NO  
**Location Description:** Replacement Bridge 46 on SR 1135 Old Fort Sugar Hill Rd. over Crooked Creek

#### 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
0.25	Permitted Area(s)	8	6	6	6	6

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

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

Inspection was done with Lee Sheppard in the late afternoon.  
 We spoke with Lynn McNeese on the project during the inspection.  
 I spoke with Mark Biggerstaff by phone after the inspection was completed.

Offsite sedimentation has occurred on this project.  
 Mark Biggerstaff was not aware of the off-site sedimentation.  
 The off-site sedimentation has not yet been reported to DEQ.  
 Maintenance and repair of EC measures had not started at the time of the inspection.  
 NPDES inspections are not up to date. There is a report from last week but an inspection from last Thursday's 2.6 inch rain event is not documented in the report.

Recommend in the future that project personnel notify the Resident or Assistant Resident immediately when off-site sedimentation occurs on a project.  
 Recommend always recording all maintenance needs on the NPDES form within 24 hours of 1.0 inch or greater rain events.  
 Recommend always notifying DEQ, DEMLR and DWR within 24 hours of 5 gallon or greater sediment losses.  
 Recommend always notifying Roadside Environmental Field Operations within 24 hours of 5 gallon or greater sediment losses.

I spoke with Mark Biggerstaff again early on the morning of 11/5/2019. The project is shut down except for EC repair and cleanup. He is going to speak with Roger Bryan about the notification of DEQ.

There are 4 sites of off-site sediment loss.

1 Approximately station 16+50 Rt. sediment went through a hole where the special sediment control fence outlet and silt fence intersection came apart. Judging by the sediment on the streambank sediment was lost into Crooked Creek. The amount of the sediment loss into the creek is unclear. We believe that the lost sediment was washed down the creek. Recommend consulting Kevin Mitchell, DEQ-DWR about clean up of the sediment on the streambank. Recommend reinstallation of the special sediment control fence outlet with a greater overlap with the silt fence. Recommend the addition of a shallow basin in front of the special sediment control fence outlet to provide sediment storage. I suggest 6 inches to a foot deep, the length of the special sediment control fence outlet and 3 to 4 feet wide. Also recommend possible installation of second row of silt fence with outlets.

2 Approximately station 21+50 Rt. the Temporary Rock Silt Check, Type A turnout measure in the silt fence empties into a natural bowl. Sediment has gotten past the turnout measure and has settled into the natural bowl. The creek is adjacent to the project at this point but there isn't any evidence of a loss of sediment from the natural bowl. Estimate approximately 2 five gallon bucketfuls. Recommend removal of the sediment in the natural bowl. Recommend the addition of a shallow basin in front of the Temporary Rock Silt Check, Type A to provide sediment storage. I suggest 6 inches to a foot deep, the length of the Temporary Rock Silt Check, Type A and 3 to 4 feet wide. Also recommend possible installation of second row of silt fence with outlets.

3 Approximately station 21+75 Rt. Sediment has gotten past the special sediment control fence outlet and run to and settled in a natural bowl 15 feet beyond the silt fence. The creek is adjacent to the project at this point but there isn't any evidence of a loss of sediment from the natural bowl. Estimate approximately 5 five gallon bucketfuls. Recommend removal of the sediment in the natural bowl. Recommend the addition of a shallow basin in front of the special sediment control fence outlet to provide sediment storage. I suggest 6 inches to a foot deep, the length of the special sediment control fence outlet and 3 to 4 feet wide. Also recommend possible installation of second row of silt fence with outlets.

4 Approximately station 25+15 Rt. Sediment has gotten past the special sediment control fence outlet and settled in a low point just beyond the silt fence. Estimate less than 1 five gallon bucketful. Recommend removal of the sediment. Recommend the addition of a shallow basin in front of the special sediment control fence outlet to provide sediment storage. I suggest 6 inches to a foot deep, the length of the special sediment control fence outlet and 3 to 4 feet wide. Also recommend possible installation of second row of silt fence with outlets.

The soil on this project is erodible.

There are rill washes on much of the project including the fill sections that have been permanently seeded and matted. The rills are smaller in the permanently seeded and matted areas.

Recommend repair of all rill washes on the project.

Recommend temporary stabilization for all fillslopes not being actively graded.

Once the rills in the driveway are repaired. Recommend temporary seeding and mulching for the driveway that will eventually be paved from approximately station 22+60 to 24+40 Rt.

Slope drains were installed at approximately stations 15+75 Rt., 17+40 Lt. and 22+00 Rt. Recommend reinstallation of all the slope drains previously installed.

Recommend additional slope drains be installed in the areas where rill washing has occurred along the fillslopes.

In areas where breaks are used to direct flow to the slope drains recommend lining the breaks with fabric to reduce erosion from the break and extending the fabric underneath the slope drain inlet protections.

Recommend installation of PAM measures above all slope drains.

Recommend cleanout of sediment on the silt fence where needed. Routine cleanout is needed on much of the silt fence on the project.

Sediment is almost to the top of the silt fence at approximately station 21+00 Rt.

Recommend maintenance of the current ditch line turnout measure approximately station 23+75 Lt.

Please continue NPDES inspections weekly and after every 1.0 inch rain event.

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



**Project Information**

Inspection Date: 11/15/2019      Evaluator: Reid Whitehead  
 Project #: 17BP.13.R.157      TIP #:      Contract #: DM00279  
 Division #: 13      County: McDowell  
 Project Type: Contract      Engineer: Marion Resident Engineer's Office  
 Project Length: 0.25      Disturbed Acres: 1  
 River Basin: Catawba      HQW Zone: NO      Trout Zone: NO  
 Location Description: Replacement Bridge 46 on SR 1135 Old Fort Sugar Hill Rd. over Crooked Creek

**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
0.25	Permitted Area(s)	8	8	8	8	8

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

**Remarks and Recommendations:**

Repairs and cleanup have been completed on the project.  
 Additional EC measures and temporary stabilization has been done.  
 The ICA is removed.

Inspection was done with Melissa King, DEQ Land Resources and Lee Sheppard.  
 We spoke with Lynn McNeese on the project during the inspection.

Kevin Mitchell, DEQ, Water Resources inspected the site last Thursday, 11-7-2019 to observe sediment cleanup. His suggestions have been implemented.  
 Roger Bryan, Lee Sheppard and I were with him when he inspected the project.

The off-site sedimentation sites have been cleaned up and stabilized.  
 All perimeter silt fence has been maintained.  
 Additional outlets in the silt fence have been added.  
 A small Silt Basin, Type B has been added at the end of the access road approximately station 17+50 Rt.  
 All rill washes have been repaired.  
 Previously installed slope drains have been repaired.  
 Additional slope drains have been added. Inlet protections are in place on the slopes drains.

Some but not all of the new slope drains have dissipaters installed.  
 Recommend installing dissipaters or lengthening the slope drains so that the outlets reach existing dissipaters for the slope drains without dissipaters installed.  
 This work was underway by the end of the inspection.

The slopes and flats of the the project have either been mulched and temporary seeded, matted or had black fabric installed.

The fillslope at approximately station 19+50 to 20+50 Rt. had just been temporary mulched.

Recommend this area be temporary seeded too.  
This seeding was underway by the end of the inspection.

NPDES inspections are up to date.

The off-site sedimentation that previously occurred is listed in the comments for the NPDES inspection from 11/4/19.

The answer to the sediment deposited question on the SDO sheet was accidently answered No. This was discussed with project personel and changed before we left the project.

Please continue NPDES inspections weekly and after every 1.0 inch rain event.

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**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: 01/07/2020      Evaluator: Josh Young  
 Project #: 17BP.5.R.71      TIP #: 17BP.5.R.71      Contract #:  
 Division #: 5      County: Franklin  
 Project Type: Contract      Engineer: Youngsville Resident  
 Project Length: 0.15      Disturbed Acres:  
 River Basin: Tar-Pamlico      HQW Zone: NO      Trout Zone: NO  
 Location Description: JY- Bridge #25 over Middle Creek on SR 1203 (Green Hill Rd)

**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
0.15	The Entire Project	6	6	6	6	6

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**ICA Comments:**

The Assistant Resident Kenny Baird contacted me today by phone letting me know that the contractor (National Bridge Builders) has illegally dumped project material off right of way onto private property. According to Kenny Baird the landowner gave the contractor permission to waste project material onto his private land. The NCGO1 clearly defines the procedure on how to handle wasting of project material off the right of way. 1.) Material can go to approved waste or borrow site as long as permit number covered by Mining permit is provided to resident. 2.) A reclamation plan can be filled out and approved by the department. Unfortunately neither of these two required options took place thus making the project out of compliance at this current time. I am issuing an ICA at this time based the project concerns discussed with Kenny Baird via phone conversation. My recommendations are to either remove the material from private property and stabilize the area that has been impacted, or submit a reclamation plan to department for review and approval. I recommend contacting the Heather Montague the Division 5 DEO to ensure that no other jurisdictional permitted areas have been impacted. The ICA for the project will be removed once all the project concerns mentioned above have been addressed.