

# 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:** 07/24/2024      **Evaluator:** Reid Whitehead  
**Project #:** 36030.3.GV4      **TIP #:** I-4700      **Contract #:** C204266  
**Division #:** 13      **County:** Buncombe  
**Project Type:** Contract      **Engineer:** Buncombe I-4700 I-26 Widening  
**Project Length:** 7.49      **Disturbed Acres:** 10  
**River Basin:** French Broad      **HQW Zone:** NO      **Trout Zone:** NO  
**Location Description:** I-26 from NC-280 (Exit 40) to I-40

#### 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
0.5	Urgent Action Items	6	6	6	7	6
1.0	Action Items	8	7	8	8	7

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

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

I received a call from Luke Middleton - Resident Engineer on Monday (7/22/2024) afternoon about losses on the project after 1.5 inches of rain on Sunday night.

An additional 3.5 inches was received over Monday and Monday night.

An additional 0.5 inches of rain was received over Tuesday afternoon and Tuesday night.

Inspection was started on Tuesday 7//23/2024 and completed on Wednesday 7/24/2024.

Inspection was done along with various people over the inspection length. These include Luke Middleton - Resident Engineer, Don Austin - Lead Inspector, Mike Sanderson - DEO and Rick Cunningham - Erosion Inspector.

Maintenance of EC measures was underway on both days of the inspection.

Please continue NPDES inspections.

Larger losses occurred from the Blue Ridge Parkway on both the East and West sides of parkway construction.

A smaller loss occurred in the bifurcated median below the Wall C2 construction.

Losses of turbid water into the wetlands occurred along the Biltmore Access Rd.

An ICA is being issued for the losses of sediment from the project. The Resident Engineer issued a suspension of work letter Tuesday. Recommend continuing suspension of work on the project except for off-site sediment cleanup and repair/maintenance of erosion and sediment control items until all Urgent Items have been addressed. These areas will be reviewed again in 5 working days. If it repairs are made sooner reinspection can occur earlier than 5 working days.

Urgent Action Item(s):

East side of Blue Ridge Parkway.

Gravel had been installed on the future Blue Ridge Parkway roadbed. This created a new flowpath between the gravel and the existing Blue Ridge Parkway.

The previous flowpath that did have checks installed was eliminated by installation of the gravel on the new roadbed.

New checks were needed in the new flowpath and were not installed immediately after the flowpath was created.

This resulted in a high velocity flow in the new flowpath to the end of the gravel installation.

At the end of the gravel installation the high velocity flow washed large rills in the roadbed and in the roadway fillslope that filled up the perimeter silt fence and resulted a loss of material over the silt fence and beyond the project limits in several places.

Most of the losses ended up in one flowpath down to Schenck Parkway on the Biltmore Farms Property. This flowpath outlets near the trail from Schenck Parkway to the Mountain to Sea Trail.

There was a second flowpath that reached Schenck Parkway. This flowpath outlets to Schenck Parkway across from White Ash Drive.

There is material deposited in the flowpath from the Blue Ridge Parkway to Schenck Parkway.

Once the material reached Schenck Parkway it entered several catch basins and washed into the JS that parallels Schenck Parkway and eventually crosses under I-26 at approximately L- station 1048+75.

There is sediment deposited on the banks below the pipes outletting from the catch basins.

There is sediment deposited in the JS and on some parts of the JS floodplain.

There is sediment deposited in the flowpath below White Ash Drive.

There is sediment deposited at the outlet of the crosspipe under I-26.

Since additional rain events are forecast for every day this week, recommend maintaining the EC devices first to try to prevent further losses and then starting off site clean up as soon as possible.

Recommend clean up of off site sediment deposits greater than an inch in depth. This is the previous recommendation made by DENR-WR.

When the new DENR-WR representative visits the sites, she may have further recommendations.

Approximately BRP- station 519+00 to 527+00 Lt. recommend installation of velocity checks every 50 feet in the flowpath between the new and old Blue Ridge Parkways from the construction entrance to the end of the flowpath.

Approximately BRP- station 527+00 to 528+50 Lt. recommend installing a diversion ditch with checks along the edge of the existing BRP past the washes in the grade and fillslope onto the existing grassed shoulder which is protected silt fence.

Approximately 526+00 to 528+00 Rt. recommend maintenance of the existing perimeter silt fence and installation of an additional row of perimeter silt fence.

Approximately 527+00 to 528+00 Rt. recommend repair of the washes in the roadbed and in the fill slope.

Approximately 518+50 to 525+25 Rt. recommend repair/maintenance of the checks in the flowpath along the toe of the cutslope and the toe of the retaining wall.

Approximately 525+75 Rt. recommend cleanout of the basin and repair of the special sediment control fence outlet in the silt fence below the basin.

EC measure installation/repair/maintenance was underway on Wednesday 7/24/2024.

West side of Blue Ridge Parkway.

There were two areas of loss.

The first area of loss is from a slope failure at an existing crosspipe approximately BRP- station 500+50 Rt.

This is an area where paving was going to be done but grade work was not going to be done.

Perimeter silt fence with outlets was installed along the shoulder above the fillslope but there were not any EC measures installed below the fillslope.

The second area of loss is from the flowpath that outlets at the bottom of the retaining wall approximately BRP- station 504+50 Rt.

Both areas lost sediment beyond the project limits that will need cleanup. The flowpaths eventually come together and then flow into a JS that empties into a wetland near the French Broad River.

I am not certain how much material was lost but it is in amounts that require notification and it will need to be cleaned up.

Approximately 500+00 to 501+00 Rt. recommend installing 3 rows of silt fence with outlets below the failing fillslope.

Approximately 500+00 to 501+00 Rt. recommend removing the outlets in the silt fence installed along the shoulder and closing the openings.

Recommend installing another piece of silt fence between the BRP and the installed silt fence to divert the flow past the failed fillslope and onto a stable outlet.

A slope drain may be needed at the outlet of the new silt fence.

Approximately 504+75 to 510+00 Rt. sediment movement from the rain events had filled up the checks and the basin in the flowpath.

Sediment filled up the perimeter silt fence at the outlet of the flowpath and was lost beyond the project limits.

The EC measures in this flowpath had been maintained at the time of the inspection in the afternoon on 7/23/2024.

Recommend clean up of off site sediment deposits greater than an inch in depth. This is the previous recommendation made by DENR-WR.

When the new DENR-WR representative visits the sites, she may have further recommendations.

Recommend checking with the US Fish and Wildlife representative about cleanup in the wetland.

Below Wall C2 construction there is an area where perimeter silt fence had been removed to install stone stabilization.

It was missing the silt fence at my last inspection on 7/12/2024. It had just been removed just before my inspection.

I recommended reinstalling the silt fence as soon as possible.

Part of the silt fence was reinstalled. Part of it was not because the posts could not be installed in the new location.

The missing silt fence has resulted in several small sediment paths into the JS.

There is some sediment in the JS that needs removal.

Approximately 1106+50 to 1107+50 Med.-Rt. recommend removing any pockets of sediment in the JS deeper than one inch in this location and farther down the JS.

Approximately 1106+50 to 1107+50 Med.-Rt. recommend installing coir fiber wattle barrier as the perimeter EC measure since the silt fence cannot be installed.

Recommend holding the coir fiber wattle logs down with sandbags or sandbag sized rocks.

If there are any openings under the wattles after installation, recommend stuffing the holes with wadded up matting.

Approximately L-station 1052+00 to 1053+50 Lt.

Turbid water was released from Tierred Skimmer Basin 20.3B. There isn't any evidence of sediment on the special sediment control fence or the checks below the basin outlet.

Some of the turbid water went through the existing crosspipe below the basin and a small amount of material that I believe was suspended in the run-off deposited in the wetland.

Some run-off from the basin bypassed the crosspipe and its inlet protection and ran down Biltmore Access Road beyond the right of way into the wetlands on right side of Biltmore Access Rd.

I believe this run-off picked up some fines from the roadbed and deposited them in the wetland.

I am not sure either area has enough material deposited to need cleanup.

Recommend checking with the US Fish and Wildlife representative about possible cleanup.

Action Item(s):

Approximately L-station 1052+00 to 1068+00 Lt. the diversions and the checks along the grade needed maintenance after the rain events.

Maintenance of the these measures was underway during the inspection on 7/23/2024.

Approximately L-station 1052+00 Lt. Tierred Skimmer Basin 20.3B. is not full but has reached the point where routine cleanout is needed.

Recommend maintenance of the basin.

Once the forecasts are not predicting daily rain, recommend installing a skimmer in the Silt Basin, Type B Cell of the Tierred Skimmer Basin so it can dewater and provide more storage during frequent rain event periods.

Approximately L-station 1055+00 Lt. Tierred Skimmer Basin 21.2B. is not full but has reached the point where routine cleanout is needed.

Recommend maintenance of the basin.

Recommend maintenance/repair of the special sediment control fence outlet below the basin.

Approximately L-station 1092+00 to 1119+00 Rt./Med.-Rt. the checks in the flowpaths along the roadbed grade need maintenance.

Maintenance was underway during the inspection on 7/24/2024.

The waste site for the project is inaccessible today so the cleaned out material cannot be taken to the waste site.

The waste material is being placed where it can wash back into the devices.

Recommend collecting the waste material on the flat near station 1122+00 and installing silt fence around the area until it can be moved to the waste site.

As work continues, contractor should continue efforts to install and maintain erosion control devices in a timely manner, as per specification, and as per erosion control plans.

Groundcover should be provided to any areas that will remain idle for 7 or 14 days or more, including stockpiles and waste areas.

Continue NPDES inspections weekly and within 24 hours after a 0.5 inch or greater rain event.

Please continue NPDES inspections daily at the French Broad River.

Urgent items should be completed within 24 hours after any storm event or as soon as conditions allow.

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

## ICA EX 1st

Immediate Corrective Action Extension (First Issuance)

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: 08/01/2024      Evaluator: Reid Whitehead  
 Project #: 36030.3.GV4      TIP #: I-4700      Contract #: C204266  
 Division #: 13      County: Buncombe  
 Project Type: Contract      Engineer: Buncombe I-4700 I-26 Widening  
 Project Length: 7.49      Disturbed Acres: 10  
 River Basin: French Broad      HQW Zone: NO      Trout Zone: NO  
 Location Description: I-26 from NC-280 (Exit 40) to I-40

### 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
0.5	Urgent Action Items	8	7	6	8	6

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

#### Remarks and Recommendations:

I did a follow-up inspection of I-4700 on Thursday 8/1/2024. The inspection was done with Lee Sheppard - Roadside Environmental Field Operations and Rick Cunningham - Erosion Inspector.

I spoke with Luke Middleton - Resident Engineer and Don Austin - Lead Inspector by phone during the inspection.

Additional rains events have occurred since my previous inspection. These have slowed but not stopped cleanup and maintenance.

An additional 0.7 inches was received Thursday 7/25/2024.

An additional 0.5 inches was received Friday 7/26/2024.

An additional 0.42 inches was received Monday 7/29/2024.

An additional 0.5 inches was received Tuesday 7/30/2024.

Clean up off-site material and EC measure maintenance was underway during the inspection.

The ICA is being extended because clean up of losses of sediment from the project on the West Side of Blue Ridge Parkway has been started but yet completed.

The Resident Engineer's suspension of work letter is still active.

Recommend continuing suspension of work on the project except for off-site sediment cleanup and repair/maintenance of erosion and sediment control items until all Urgent Items have been addressed.

The West Side of Blue Ridge Parkway will be reviewed again in 5 working days.

If it repairs are made sooner reinspection can occur earlier than 5 working days.

East side of Blue Ridge Parkway.

The issues that resulted in this part of the project being under ICA have been resolved.

The new flowpath between the gravel stabilization on the future Blue Ridge Parkway road bed and the existing Blue Ridge Parkway has been extended by a Temporary Diversion to beyond the fill area to existing ground.

A small Silt Basin, Type B has been added to flowpath outlet.

Temporary Rock Silt Checks have been placed in the flowpath approximately every 50 feet.

The rill washes in the roadbed and fillslope have been repaired.

The perimeter silt fence below the area of loss has been repaired and 2 additional rows of silt fence have been installed.

Clean up of the material on the flowpath from the Blue Ridge Parkway to Schenck Parkway has been done.

The DEQ-WR representative, Amy Annino had been out to evaluate the clean up and identified a few more small areas of cleanup.

Work on these areas was underway during the inspection and was completed before the end of the inspection.

Coir Fiber Wattle Checks have been installed in the flowpath and going to be inspected during the NPDES inspections and maintained as needed.

Sediment that deposited along the JS that parallels Schenck Parkway and eventually crosses under I-26 at approximately L- station 1048+75 has been cleaned up.

The inlet of the livewater pipe under Biltmore Access Rd. is going to be inspected during the NPDES inspections and maintained as needed.

Below Wall C2 construction.

The issues that resulted in this part of the project being under ICA have been resolved.

The areas where the perimeter silt fence was missing have been protected by wattles.

Cleanup of material in the JS has been done.

The DEQ-WR representative, Amy Annino has been out to evaluate the clean up and was satisfied with the current cleanup.

She wanted Coir Fiber Wattles installed at the inlet of the 66" pipe below the area of loss to catch any sediment remnants.

These wattles will be inspected during the NPDES inspections and maintained as needed.

These wattles will be removed after a period of time to be determined by DEQ-WR.

Installation of the wattles is being scheduled and will probably occur on Saturday 8/3/2024.

Urgent Action Item(s):

West side of Blue Ridge Parkway.

The first area of loss was from a slope failure at an existing crosspipe approximately BRP- station 500+50 Rt.

Three rows of silt fence with outlets have been installed below the slope failure.

A second row of silt fence has been installed along the shoulder above the slope failure.

Three slope drains have been installed with inlet protections and dissipaters to carry run-off down the slope past the slope failure.

Clean up has been started below this area and is still underway.

The DEQ-WR representative, Amy Annino has been out to evaluate the loss and identify areas of cleanup.

Coir Fiber Wattle Checks are being installed in the flowpath as areas are cleaned up.

These Coir Fiber Wattle Checks are going to be inspected during the NPDES inspections and maintained as needed.

With permission, Access Roads on the Biltmore Farms property are being used to access the sites.

In some areas rutting has occurred in these roads.

Recommend removal of the ruts and stabilization of any disturbed areas on the access roads once cleanup is complete.

Approximately BRP- station 501+00 Rt. the inlet protection on the 3rd slope drain (the one nearest the retaining wall) needs routine maintenance.

Recommend maintainance the inlet protection.

Approximately 500+00 to 501+30 Rt. the shoulder was disturbed during installation of the second row of silt fence above the slope failure.

Recommend stabilization of the disturbed shoulder.

The second area of loss was from the flowpath that outlets at the bottom of the retaining wall approximately BRP- station 504+50 Rt.

The EC measures in this flowpath had been maintained at the time of the inspection in the afternoon on 7/23/2024.

Subsequent rain events have resulted in a few previously maintained EC measures in need of routine maintenance.

Clean up beyond the perimeter EC measures has been started and is still underway.

The DEQ-WR representative, Amy Annino has been out to evaluate the loss and identify areas of cleanup.

Coir Fiber Wattle Checks are being installed in the flowpath as areas are cleaned up.

These Coir Fiber Wattle Checks are going to be inspected during the NPDES inspections and maintained as needed.

With permission, Access Roads on the Biltmore Farms property are being used to access the sites.

In some areas rutting has occurred in these roads.

Recommend removal of the ruts and stabilization of any disturbed areas on the access roads once cleanup is complete.

Approximately 502+00 to 502+75 Rt. the last three checks the diversion ditch that outlets to the slope drain near the West end of the retaining wall need cleanout/repair.

Recommend maintaining these checks.

Approximately 505+25 to 505+75 Rt. a couple of the checks in the upper part in the ditch to the basin are in need of routine cleanout.

Recommend maintaining these checks.

Approximately 506+00 to 507+00 Rt. part of the perimeter silt fence has been removed to work.

Recommend reinstallation at the end of the day.

As work continues, contractor should continue efforts to install and maintain erosion control devices in a timely manner, as per specification, and as per erosion control plans.

Groundcover should be provided to any areas that will remain idle for 7 or 14 days or more, including stockpiles and waste areas.

Continue NPDES inspections weekly and within 24 hours after a 0.5 inch or greater rain event.

Please continue NPDES inspections daily at the French Broad River.

Urgent items should be completed within 24 hours after any storm event or as soon as conditions allow.

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



## Project Information

Inspection Date: 08/08/2024      Evaluator: Reid Whitehead  
 Project #: 36030.3.GV4      TIP #: I-4700      Contract #: C204266  
 Division #: 13      County: Buncombe  
 Project Type: Contract      Engineer: Buncombe I-4700 I-26 Widening  
 Project Length: 7.49      Disturbed Acres: 10  
 River Basin: French Broad      HQW Zone: NO      Trout Zone: NO  
 Location: I-26 from NC-280 (Exit 40) to I-40  
 Description:

## 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
0.5	Urgent Action Items	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:

I did a follow-up inspection of I-4700 on Thursday 8/8/2024. The inspection was done with Rick Cunningham - Erosion Inspector.

The ICA is lifted.

West side of Blue Ridge Parkway.

The issues that resulted in this part of the project being under ICA have been resolved.

The EC measures on the West side of the Blue Ridge Parkway are maintained.

Clean up of the material on the flowpath beyond the EC measures has been completed.

Wattles to catch remnant sedimentation have been installed in the flowpath below the perimeter EC measures per Amy Annino - DEQ-WR.

These wattles are going to be inspected during the NPDES inspections and maintained as needed.

Once remnant sedimentation has been caught and removed, DEQ-WR will be consulted about removal.

Recommend removal of the ruts and stabilization of any disturbed areas on the Access Roads on the Biltmore Farms property that were used access for cleanup.

This work requires consultation with Biltmore Farms to agree on stabilization methods.

East side of Blue Ridge Parkway.

The site was also reinspected.

The issues that resulted in this part of the project being under ICA were resolved at the time of the last inspection.

The inlet of the livewater pipe under Biltmore Access Rd. is going to be inspected during the NPDES inspections and maintained as needed.

Wattles to catch remnant sedimentation have been installed in the flowpath below the perimeter EC measures per Amy Annino - DEQ-WR.

These wattles are going to be inspected during the NPDES inspections and maintained as needed.

Once remnant sedimentation has been caught and removed, DEQ-WR will be consulted about removal.

Below Wall C2 construction.

The site was also reinspected.

The issues that resulted in this part of the project being under ICA were resolved at the time of the last inspection.

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: 07/31/2024      Evaluator: Aaron Harper  
 Project #: 37673.3.GV3      TIP #: R-2721A      Contract #: C204196  
 Division #: 5      County: Wake  
 Project Type: Turnpike      Engineer: Turnpike Resident  
 Project Length: 4.47      Disturbed Acres: 0  
 River Basin: Neuse      HQW Zone: NO      Trout Zone: NO  
 Location Description: Complete 540 - From West of NC55 Bypass to east of Pierce Olive Road (SR 1389)

**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
4.47	The Entire Project	7	6	7	6	6

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

**ICA Comments:**

Note that an Immediate Corrective Actions report is being issued as a result of non-compliance with the requirements of the Sedimentation and Pollution Control Act and the NCG01 Permit. The project is currently not in compliance with the requirements of the SPCA and NCG01 Permit due to:

- Failure to implement EC devices in accordance with the approved plan.
- Failure to maintain EC devices in accordance with the approved plan and in a timely manner.
- Failure to maintain NPDES Documentation.
- Impacts/Disturbance beyond the project limits.

Details of these occurrences are outlined in the body of this report. These deficiencies should be addressed in order for the project to no longer fall under ICA Status. The project will be revisited in 5 working days.

**Remarks and Recommendations:**

Reviewed with Wes, Donald, and Walter. I also spoke with Danny at Permit Site 3.

This review was conducted as a follow-up to the site visit on July 23rd. Items that were noted on the report following that visit are included in this report with updates as of July 31st. The following items should be addressed in order to lift ICA Status.

**NPDES Record Keeping Deficiencies:**

- Most recent signed inspection was for the week of June 17th thru June 23rd. Records were correctly not

signed due to either record keeping deficiencies or incomplete maintenance.

-Additionally, records show incomplete maintenance dating back to the week of July 15th thru July 21st. July 8th shows all maintenance completed, however, the item noted on -Y5- at -Y5D- was not reflected.

July 23rd Note: \*Vicinity -LREV- Sta 53+/- Rt: Private property was utilized to access the project for the removal of basins 7.2F and 8.2F. Equipment was used to blade a path from the adjacent parcel to the project, adjacent to a wetland and buffer area without a Reclamation Plan. Staking is needed to determine if the wetland and/or buffer areas were impacted. All disturbance beyond the project limits should be dressed and stabilized with permanent means and EC re-installed to provide containment. This should also be coordinated with NCTA Environmental if the wetland and/or buffer areas were impacted. If this parcel is needed in support of the project, then the Reclamation Plan process must be followed. \*Urgent Items.

July 31st Follow Up: SF installed. Need to dress and pursue permanent stabilization of areas impacted beyond the project limits

July 23rd Note: \*As noted on the July 16th NPDES Inspection at Permit Site 5, vicinity -L- Sta. 49+00 Rt: Sediment transported into mech clearing due to downed silt fence. Sediment released from rills in slope above permit site. Approximately 2 to 3 five-gallon buckets worth across the downed fence. Sediment reclamation, silt fence repair, and slope repair required. \*Urgent Item and had not yet been addressed at the time of review.

July 31st Follow Up: Perimeter EC has been maintained and sediment retrieval has been pursued. Remaining disturbed footprint needs stabilized with wetland seed and in accordance with guidance from NCTA Environmental. Groundcover is needed of the surrounding fill slopes in accordance with the NCG01 timeframes.

July 23rd Note: \*As noted on the July 16th NPDES Inspection at Permit Site 6, vicinity -L- Sta. 51+00 Rt: Sediment lost into mech clearing area due to silt fence failure. Estimate 1/2 CY of sediment. \*Urgent item and had not yet been addressed at the time of review.

July 31st Follow Up: Additional retrieval is needed on the up station side of the permit site. Recommend coordinating with NCTA Environmental to determine if retrieval from the resource is adequate and pursue stabilization. Some SF has been installed. Continued efforts are needed to maintain/re-set SF and SSCF outlets.

July 23rd Note: \*As noted on the July 8th NPDES Inspection at Permit Site 7, vicinity -L- Sta. 60+00 LT: Sediment deposited in rip rap by the 30 inch pipe and beyond the rip rap into the JS. Approximately 1CY worth of sediment to recover. The source of the material was the unprotected inlet of the 30 inch pipe and significant disturbance associated with toe protection installation and basin 8.2F removal. Sediment needs retrieved and stabilized in accordance with guidance from NCTA Environmental, sediment removed from the rip rap and rip rap replaced as needed and EC re-installed at the pipe inlet to provide containment. \*Urgent items.

July 31st Follow Up: SF was installed at the pipe inlet and sediment retrieval was underway at the time of review. Outlets are needed in the SF and stabilization is needed around the pipe inlet. Danny indicated this would be addressed the day of review. Also, stabilization is needed of the surrounding disturbed areas.

July 23rd Note: \*As noted on the July 8th NPDES Inspection at Permit Site 37, vicinity -L- Sta. 203+00 Rt: Silt has settled in wetland area past 42" pipe outlet. Both rip rap and geotextile were displaced from high velocity of storm water outfall from rain event. Noted Urgent inlet protection clean out and maintenance needed at several DIs that drain to this location. Sediment retrieval from the wetland area should be coordinated with NCTA Environmental. \*Urgent Items and had not been addressed at the time of review.

July 31st Follow Up: Walter and Danny indicated retrieval was pursued with a vac truck. However, it appears additional retrieval is needed. Recommend coordination with NCTA Environmental to determine if additional sediment retrieval from the wetland is needed. Continued maintenance is needed at the inlet protections that drain to this location.

July 23rd Note:\*As noted on the July 8th and 22nd NPDES Inspection at Permit Site 34/35, vicinity Waste Pit OTCB approximate -Y5- Sta 49+/- Lt: Sediment deposited in wetland heading towards OTCB. Approximately 8-9 five-gallon buckets worth. Sediment reclamation is needed. Source of sediment was a failed slope drain, significant slope washing, and failed SF. Devices need repaired/re-installed, washing repaired, and sediment retrieved from the wetland area and stabilized in accordance with guidance from NCTA Environmental. \*Urgent items and had not been addressed at the time of review.

July 31st Follow Up: The slope drain inlet was repaired, some slope washing repaired. Recommend coordination with NCTA Environmental to determine if retrieval from the wetland is adequate and pursue stabilization. SF maintenance, basin clean out and maintenance, and inlet protection clean out and maintenance have not been pursued.

July 23rd Note:\*As noted on the July 22nd NPDES Inspection at Permit Site 34/35, vicinity Waste Pit OTCB at

approximate -Y5- Sta 53+/- Lt: Sediment deposited in wetland heading towards OTCB. Approximately 8-9 five-gallon buckets worth. Sediment reclamation is needed. Outlets needed in the recently re-installed SF. \*Urgent items and had not been addressed at the time of review.

July 31st Follow Up: Some sediment retrieval has taken place. Recommend coordination with NCTA Environmental to determine if clean up is adequate and pursue stabilization. Additional outlets have not been installed and SF has not been maintained.

July 23rd Note:\*As noted on the July 22nd NPDES Inspection at Permit Site 35, vicinity -Y5RPA- 21+00 RT: Slope washed out and sediment deposited at bottom. Coordination is needed with NCTA Environmental to determine extent of sediment retrieval from the JS and rip rap channel changes. The wash occurred as a result of runoff undermining the noise wall due to Str 1757 being blocked. Str 1757 should be opened to flow as designed, and inlet protection installed around the top of the box or back of curb. Also, noted groundcover needs at various areas throughout draining to this system. \*Urgent Items and had not been addressed at the time of review.

July 31st Follow Up: Perimeter measures maintenance has been pursued. Sediment retrieval and wash repair have not been addressed.

July 23rd Note: -Basin 7.2F Removal: The following items were noted during the March 2nd, 2024 Design review regarding basin 7.2F: "There was discussion about Skimmer Basin 7.2 F and the diversion leading to it and whether they could both be removed in a few weeks once Flatiron-Branch is ready to install the toe protection and complete any work in the area. It is recommended that it could be removed with the note that, if possible, the upgradient slope in the area be reseeded and vegetation established prior to removal as it was noted that a large portion of the slope had very sparse vegetation. If not, temporary silt fence should be placed at the toe of slope with temporary silt fence outlets. The silt fence on the outside of the basin should remain in place once the basin and diversion have been removed. Depending on the extents of disturbance, coir fiber wattles might be necessary in the removed diversion and basin areas." Note that it did not appear efforts were made to re-vegetate the slope as recommend by the designers and SF with outlets was also not installed.

Additionally, the SF around the perimeter of the basin footprint was also in need of Urgent maintenance. July 31st Follow Up: Wattle installation and SF installation not addressed. Walter indicated wattles would be installed.

July 23rd Note: -Basin 8.2F Removal: The following items were noted during the March 2nd, 2024 Design review regarding basin 8.2F: "There was discussion about Skimmer Basin 8.2 F and the diversion leading to it and whether they could both be removed in a few weeks once Flatiron-Branch is ready to install the toe protection and complete any work in the area. It was noted during the site visit that the area is fairly well vegetated and established. When removing the basin and diversion steps should be taken to limit the amount of area disturbed during the final work in the area. It is recommended that the basin and diversion could be removed. It should be verified that the temporary silt fence on the outside of the basin is there and remains in place after the basin is removed to protect the jurisdictional resource. Dependent on the extent of ground disturbance, coir fiber wattles might be necessary in the area to prevent sediment runoff." Note that the entire slope was re-worked draining to the basin footprint location. Also, as noted at the Permit Site 7 concern noted above, SF was not in place to provide containment adjacent to the pipe inlet. \*Urgent Items

July 31st Follow Up: Wattle installation not addressed. This item was discussed during the design review the design partners indicated they would provide additional recommendations as a result of disturbance on the slope.

Additional Concerns Noted During July 31st Follow Up. The following items should be addressed in order to lift ICA Status:

\*Urgent Maintenance needed at the SSCF outlet vicinity -L1- Sta 22+/- Lt.

\*As noted on July 8th vicinity -Y5D- Sta 12+/- Rt: Sediment and 57 stone transported beyond silt fence at Lockley Road. Material either overtopped or undermined silt fence, roughly 1-2 5-gallon buckets worth.

\*As of July 31st:Material needs retrieval, silt fence repair, and sediment pile removed from nearby area. Recommend staking the R/W limits to determine if material migrated beyond the project limits.

\*As noted on the July 8th NPDES Inspection at Permit Site 3, vicinity -Y1RPD- Sta 11+50+/- Lt: Both temporary silt fence and SDOs at pipe outlet were overwhelmed and or damaged from washes in fill slope adjacent to permit site. #57 stone and silt needs retrieved in rip rap splash pad, as well as pockets of silt in wetland area.

\*As of July 31st: Sediment retrieval was underway. EC maintenance has not been addressed. Outlets needed in the SF along the rip rap ditch vicinity -Y1RPD- Sta 11+50+/- to 14+50+/- Lt. The need to install additional outlets in the SF was also noted on the June report.

\*As noted on the July 8th NPDES Inspection at Permit Site 8, vicinity -L- Sta 79+/- Rt: Sediment deposited past silt fence limits and onto rip rap at culvert outlet. Sediment overwhelmed silt fence outlet and bypassed fallen

silt fence to create multiple pockets beyond EC measures. Sediment and 57 stone apparent in open pipe system where an impoundment is installed. Minimal material in stream but accumulation in rock armor is hard to quantify. Guessing 1/2 CY

\*Not addressed as of July 31st. Note that SF and SSCF outlets were overwhelmed as a result of Str 0909 being blocked causing runoff to flow out of the man hole opening. Str 0909 was blocked to prevent sediment from discharging the system (Noted on May 22nd Report). Sediment in the pipe system should be removed so the storm drain system can function as designed.

\*As noted on the July 8th NPDES Inspection at Permit Site 10, vicinity -L- Sta 71+/- Rt: Noise wall undermined resulting in sediment washing down slope and overwhelming SDO. Sediment, 57 stone, and rip rap have been displaced past the 36" pipe outlet. Estimate roughly 1-2 CY of material has been lost and will need recovered.

\*As of July 31st: Some maintenance has been pursued and rip rap re-installed since July 8th. However, additional Urgent SF and SSCF outlet maintenance needed as well as additional retrieval from the toe protection.

\*As noted on the July 8th NPDES Inspection at Permit Site 17, vicinity -L- Sta 116+/- Rt: SDO overwhelmed at pipe outlet as well as silt fence failure. Silt migrated through tall grass and settled near back section of permit area. Estimate several five gallon buckets worth of sediment lost.

\*As of July 31st: EC was maintained. Sediment retrieval has not been addressed. Also, attention is needed to manage runoff behind the wall that is causing washing and contributing to the devices being overwhelmed. I was notified the roadway fill slope was scheduled for stabilization the week of review.

\*As noted on the July 8th NPDES Inspection at Permit Site 30, vicinity -Y5RPC- Sta 20+/- Rt: Sediment coming out the 36" RCP re-deposited into previously cleaned area. New sediment in rip rap (and some 57 stone) and a skim layer in wooded areas with one small pocket. Removal of sediment from rip rap and wooded areas required to ensure smooth flow of water.

\*As of July 31st: Sediment retrieval has taken place. Inlet protection clean out and maintenance not addressed at Str 1705 and 1708. Also, per plan measures are needed in the ditch line vicinity -Y5RPC- Sta 17+50+/- to 22+/- Lt.

\*As noted on the July 15th NPDES Inspection at Permit Site 35, vicinity -Y5RPA- Sta 23+/- Rt: Skim layer of sediment deposited on rip rap, probably coming from loss in waste pit. Appears to be a couple shovels worth. Next rip rap section down appears to be clear of sediment. Rip rap near culvert appears to have residual deposits.

\*As of July 31st: Sediment retrieval has not been pursued. Coordination is needed with NCTA Environmental to determine extent of sediment retrieval from the JS and rip rap channel changes.

\*As noted on the July 8th NPDES Inspection up slope and draining to Permit Site 41, vicinity -Y1RPBREV- Sta 21+/- Lt: Silt fence failure and overwhelmed SDO, Lt of Y-1 ramp B station 21+00. Silt migrated through temporary silt fence and past failure in silt fence. Silt went in wooded area and through sewer easement which all leads to permit site 41. Material will have to be followed and retrieved with shovels and buckets. 10 plus five-gallon buckets of offsite material estimated.

\*As of July 31st: Stabilization has been pursued on the adjacent ramp fill slope and some sediment retrieval from beyond the project limits. Coordination is needed with NCTA Environmental to ensure retrieval is adequate from the offsite resource and stabilization pursued.

\*As noted on the July 8th NPDES Inspection on the inlet of Permit Site 18, vicinity -L- Sta 126+/- Lt: Sediment undercut/overtopped silt fence and deposited in permitted area. Approximately 4-5 five-gallon buckets worth of silt deposited. Sediment reclamation and silt fence repair needed after water has been removed/dried.

\*As of July 31st: Not Addressed

\*As noted on the July 15th NPDES Inspection at the outlet of Permit Site 18, vicinity -L- Sta 126+/- Rt: Water at outlet appears significantly turbid. Unable to identify any failures. Will continue to monitor area as conditions improve.

\*As of July 31st: Water levels have receded and it does not appear retrievable sediment was located within the channel. At the time of review, earthwork operations were underway in the ditch line vicinity -L- Sta 127+50+/- to 131+/- Lt and per plan ditch measures were not in place. Per plan ditch measures should be installed, including the application of PAM.

\*As noted on the July 15th NPDES Inspection at Permit Site 19, vicinity -L- Sta 142+/- Rt: Sediment deposited in rip rap by the culvert due to silt fence failure. Approximately 5-6 five-gallon buckets worth. Sediment reclamation, fresh rip rap, and silt fence repair are needed.

\*This area was not reviewed on July 31st. The RE Office indicated this item has not been addressed as of July

31st.

\*As noted on the July 15th NPDES Inspection at Permit Sites 23/24, vicinity -L- Sta 154+/- Rt: Sediment deposited in the rip rap ditch due to undercut silt fence. Approximately 5-6 five-gallon buckets worth. Sediment reclamation, fresh rip rap, and silt fence repair are needed.

\*This area was not reviewed on July 31st. The RE Office indicated this item has not been addressed as of July 31st.

The Following Additional Concerns were Noted on July 23rd and should be addressed in order to lift ICA Status:

-EC containment needed at the haul path adjacent to -Y3-, vicinity Sta 12+/- to 14+/- Rt. Inlet protection needed at the existing DI that drains to the JS and SF above the pipe outlet to provide containment. \*Has been noted on multiple previous reviews.

The Following Additional Concerns were Noted on July 23rd:

-Noted significant slope sloughing vicinity -L- Sta 198+/- to 206+/- Lt behind the noise wall that will need repaired and stabilized. Continue to monitor as this poses significant risk to the JS and rip rap channel changes along the toe of the slope.

Recommendations Moving Forward:

-Ensure diversions and TSDs are reinstalled daily and in advance of forecasted rains as cut/fill operations progress.

-Continue pursuing the early installation of EC devices as soon as construction allows per spec and per plans.

-Pursue permanent vegetative groundcover as soon as construction allows. Any disturbed area which remains IDLE for greater than 7 or 14 days should be stabilized.

-Utilize slope drains to manage runoff down slopes. Ensure diversions/slope drains are re-installed daily as grading progresses.

-Continue utilizing and maintaining construction entrances at all access points to prevent tracking material onto the roadways.

-In areas noted as Environmentally Sensitive Areas:

-Ensure work progresses in a continuous manner to a state of stabilization per Project Special Provisions.

-Ensure stage seeding is utilized as fill/cut operations progress per Project Special Provisions.

-Ensure Grubbing is not performed until immediately prior to grading operations in any areas noted as an ESA per Project Special Provisions.

-Ensure construction entrances are routinely maintained to prevent tracking onto the roadway.

-NPDES Inspections were reviewed. Record Keeping Concerns Noted Above. NPDES Records should be maintained once every 7 days and within 24 hours of 1 inch of rainfall in a 24 hour period until greater than 80% permanent vegetative cover is achieved throughout the project. Please reach out to this office if additional guidance is needed.

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

## ICA EX 1st

### Immediate Corrective Action Extension (First Issuance)

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: 08/09/2024                      Evaluator:                      Aaron Harper  
 Project #:                      37673.3.GV3                      TIP #:                      R-2721A                      Contract #: C204196  
 Division #:                      5                      County:                      Wake  
 Project Type:                      Turnpike                      Engineer:                      Turnpike Resident  
 Project Length:                      4.47                      Disturbed Acres:                      0  
 River Basin:                      Neuse                      HQW Zone:                      NO                      Trout Zone:                      NO  
 Location Description:                      Complete 540 - From West of NC55 Bypass to east of Pierce Olive Road (SR 1389)

#### 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
4.47	The Entire Project	7	6	7	6	6

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

#### ICA EX 1st Comments:

This review was conducted as a follow up to the Immediate Corrective Action report issued on August 1st for the review completed on July 31st. An ICA Extension is being issued as items noted on the Immediate Corrective Action report have not been completed. Please note that the project experienced a tropical rainfall event that generated between 0.4 and 0.8 inches of rainfall on August 7th, between 3.1 and 3.4 inches of rainfall on August 8th, and between 1.1 and 1.9 inches of rainfall on August 9th according to current MPE rainfall data. The items noted below are separated into two sections. The first are items that were noted on the Immediate Corrective Action report and have not been adequately addressed. The second are items that were noted on the Immediate Corrective Action report and were addressed prior to the tropical event. The project will be revisited in 5 working days.

#### Remarks and Recommendations:

\*\*\*Project Remains Under ICA Status\*\*\*  
 Reviewed with Donald and Caroline

\*\*The Following Items were noted on the Immediate Corrective Action report and have not yet been addressed. Lifting of the ICA is contingent on the following items being adequately addressed:

July 23rd Note: \*Vicinity -LREV- Sta 53+/- Rt: Private property was utilized to access the project for the removal of basins 7.2F and 8.2F. Equipment was used to blade a path from the adjacent parcel to the project,

adjacent to a wetland and buffer area without a Reclamation Plan. Staking is needed to determine if the wetland and/or buffer areas were impacted. All disturbance beyond the project limits should be dressed and stabilized with permanent means and EC re-installed to provide containment. This should also be coordinated with NCTA Environmental if the wetland and/or buffer areas were impacted. If this parcel is needed in support of the project, then the Reclamation Plan process must be followed. \*Urgent Items.

July 31st Follow Up: SF installed. Need to dress and pursue permanent stabilization of areas impacted beyond the project limits

August 8th Follow Up: Impacts not yet dressed or stabilized.

July 23rd Note: \*As noted on the July 16th NPDES Inspection at Permit Site 5, vicinity -L- Sta. 49+00 Rt: Sediment transported into mech clearing due to downed silt fence. Sediment released from rills in slope above permit site. Approximately 2 to 3 five-gallon buckets worth across the downed fence. Sediment reclamation, silt fence repair, and slope repair required. \*Urgent Item and had not yet been addressed at the time of review.

July 31st Follow Up: Perimeter EC has been maintained and sediment retrieval has been pursued. Remaining disturbed footprint needs stabilized with wetland seed and in accordance with guidance from NCTA Environmental. Groundcover is needed of the surrounding fill slopes in accordance with the NCG01 timeframes.

August 8th: Stabilization has not yet been pursued in the wetland area. It appears seeding had taken place in the wetland prior to rainfall and some germination noted. Also, additional discharge appears to have occurred due to tropical event and needs retrieved prior to stabilization. Recommend coordination with NCTA Environmental regarding retrieval.

July 23rd Note: \*As noted on the July 16th NPDES Inspection at Permit Site 6, vicinity -L- Sta. 51+00 Rt: Sediment lost into mech clearing area due to silt fence failure. Estimate 1/2 CY of sediment. \*Urgent item and had not yet been addressed at the time of review.

July 31st Follow Up: Additional retrieval is needed on the up station side of the permit site. Recommend coordinating with NCTA Environmental to determine if retrieval from the resource is adequate and pursue stabilization. Some SF has been installed. Continued efforts are needed to maintain/re-set SF and SSCF outlets.

August 8th Follow Up: Retrieval had not yet been pursued. It appears additional discharge occurred as a result of tropical event. Continued coordination needed with NCTA Environmental regarding retrieval and stabilization in the wetland. Also, adequate efforts had not been made to re-secure the site. SF and outlets were installed inside of failed SF and outlets with a strip of disturbance remaining. Continued repair/maintenance/re-installation of perimeter per plan containment needed, including removal of old failed SF and outlets.

July 23rd Note: \*As noted on the July 8th NPDES Inspection at Permit Site 37, vicinity -L- Sta. 203+00 Rt: Silt has settled in wetland area past 42" pipe outlet. Both rip rap and geotextile were displaced from high velocity of storm water outfall from rain event. Noted Urgent inlet protection clean out and maintenance needed at several DIs that drain to this location. Sediment retrieval from the wetland area should be coordinated with NCTA Environmental. \*Urgent Items and had not been addressed at the time of review.

July 31st Follow Up: Walter and Danny indicated retrieval was pursued with a vac truck. However, it appears additional retrieval is needed. Recommend coordination with NCTA Environmental to determine if additional sediment retrieval from the wetland is needed. Continued maintenance is needed at the inlet protections that drain to this location.

August 9th Follow Up: Appears additional retrieval remains to be completed.

July 23rd Note:\*As noted on the July 8th and 22nd NPDES Inspection at Permit Site 34/35, vicinity Waste Pit OTCB approximate -Y5- Sta 49+/- Lt: Sediment deposited in wetland heading towards OTCB. Approximately 8-9 five-gallon buckets worth. Sediment reclamation is needed. Source of sediment was a failed slope drain, significant slope washing, and failed SF. Devices need repaired/re-installed, washing repaired, and sediment retrieved from the wetland area and stabilized in accordance with guidance from NCTA Environmental. \*Urgent items and had not been addressed at the time of review.

July 31st Follow Up: The slope drain inlet was repaired, some slope washing repaired. Recommend coordination with NCTA Environmental to determine if retrieval from the wetland is adequate and pursue stabilization. SF maintenance, basin clean out and maintenance, and inlet protection clean out and maintenance have not been pursued.

August 9th Follow Up: Basin was cleaned out prior to tropical event. Does not appear SF maintenance or inlet protection clean out and maintenance were pursued. Tropical event has caused the slope drain to fail, and the SF failures to increase in severity. Additional sediment discharge into the adjacent wetland was noted.

July 23rd Note:\*As noted on the July 22nd NPDES Inspection at Permit Site 35, vicinity -Y5RPA- 21+00 RT: Slope washed out and sediment deposited at bottom. Coordination is needed with NCTA Environmental to determine extent of sediment retrieval from the JS and rip rap channel changes. The wash occurred as a result

of runoff undermining the noise wall due to Str 1757 being blocked. Str 1757 should be opened to flow as designed, and inlet protection installed around the top of the box or back of curb. Also, noted groundcover needs at various areas throughout draining to this system. \*Urgent Items and had not been addressed at the time of review.

July 31st Follow Up: Perimeter measures maintenance has been pursued. Sediment retrieval and wash repair have not been addressed.

August 9th Follow: Does not appear sediment retrieval was pursued prior to tropical event. Additional sediment retrieval likely. Also, additional grading has taken place of the fill slope since last visit.

\*Urgent Maintenance needed at the SSCF outlet vicinity -L1- Sta 22+/- Lt.

August 9th Follow Up: Does not appear maintenance was pursued prior to tropical event.

\*As noted on July 8th vicinity -Y5D- Sta 12+/- Rt: Sediment and 57 stone transported beyond silt fence at Lockley Road. Material either overtopped or undermined silt fence, roughly 1-2 5-gallon buckets worth.

\*As of July 31st: Material needs retrieval, silt fence repair, and sediment pile removed from nearby area.

Recommend staking the R/W limits to determine if material migrated beyond the project limits.

August 9th Follow Up: Appears some SF maintenance took place and sediment pile removed. However SF and SSCF outlet were not repaired. It appears additional sediment discharge occurred as a result of tropical event. Staking of the R/W limits needed to determine if material migrated beyond the project limits.

\*As noted on the July 8th NPDES Inspection at Permit Site 8, vicinity -L- Sta 79+/- Rt: Sediment deposited past silt fence limits and onto rip rap at culvert outlet. Sediment overwhelmed silt fence outlet and bypassed fallen silt fence to create multiple pockets beyond EC measures. Sediment and 57 stone apparent in open pipe system where an impoundment is installed. Minimal material in stream but accumulation in rock armor is hard to quantify. Guessing 1/2 CY

\*Not addressed as of July 31st. Note that SF and SSCF outlets were overwhelmed as a result of Str 0909 being blocked causing runoff to flow out of the man hole opening. Str 0909 was blocked to prevent sediment from discharging the system (Noted on May 22nd Report). Sediment in the pipe system should be removed so the storm drain system can function as designed.

August 8th Follow Up: Contractors records show the structure was cleaned out and the pipe block removed but the pipe system has not yet been cleaned out. Also, perimeter SF and outlet repair does not appear to have been addressed.

\*As noted on the July 8th NPDES Inspection at Permit Site 17, vicinity -L- Sta 116+/- Rt: SDO overwhelmed at pipe outlet as well as silt fence failure. Silt migrated through tall grass and settled near back section of permit area. Estimate several five gallon buckets worth of sediment lost.

\*As of July 31st: EC was maintained. Sediment retrieval has not been addressed. Also, attention is needed to manage runoff behind the wall that is causing washing and contributing to the devices being overwhelmed. I was notified the roadway fill slope was scheduled for stabilization the week of review.

August 8th Follow Up: The roadway fill slope was not stabilized and runoff management along the back of the wall was not addressed. Tropical rain led to urgent maintenance needed of the containment measures at the wetland.

\*As noted on the July 8th NPDES Inspection at Permit Site 30, vicinity -Y5RPC- Sta 20+/- Rt: Sediment coming out the 36" RCP re-deposited into previously cleaned area. New sediment in rip rap (and some 57 stone) and a skim layer in wooded areas with one small pocket. Removal of sediment from rip rap and wooded areas required to ensure smooth flow of water.

\*As of July 31st: Sediment retrieval has taken place. Inlet protection clean out and maintenance not addressed at Str 1705 and 1708. Also, per plan measures are needed in the ditch line vicinity -Y5RPC- Sta 17+50+/- to 22+/- Lt.

\*August 8th Follow Up: Per plan ditch measure installation and maintenance was not pursued. It appears that tropical event has caused additional sediment discharge.

\*As noted on the July 8th NPDES Inspection on the inlet of Permit Site 18, vicinity -L- Sta 126+/- Lt: Sediment undercut/overtopped silt fence and deposited in permitted area. Approximately 4-5 five-gallon buckets worth of silt deposited. Sediment reclamation and silt fence repair needed after water has been removed/dried.

\*As of July 31st: Not Addressed

August 8th Follow Up: Sediment retrieval and SF and SSCF maintenance addressed. Stabilization needed in the buffer.

\*As noted on the July 15th NPDES Inspection at the outlet of Permit Site 18, vicinity -L- Sta 126+/- Rt: Water at outlet appears significantly turbid. Unable to identify any failures. Will continue to monitor area as conditions improve.

\*As of July 31st: Water levels have receded and it does not appear retrievable sediment was located within the channel. At the time of review, earthwork operations were underway in the ditch line vicinity -L- Sta 127+50+/- to 131+/- Lt and per plan ditch measures were not in place. Per plan ditch measures should be installed, including the application of PAM.

August 8th Follow Up: Earthen dam skimmer installed in lieu of excavated type B silt basin 13.1F. Per plan ditch measures with PAM not in place.

\*As noted on the July 15th NPDES Inspection at Permit Site 19, vicinity -L- Sta 142+/- Rt: Sediment deposited in rip rap by the culvert due to silt fence failure. Approximately 5-6 five-gallon buckets worth. Sediment reclamation, fresh rip rap, and silt fence repair are needed.

\*This area was not reviewed on July 31st. The RE Office indicated this item has not been addressed as of July 31st.

August 8th Follow Up: Material has not yet been retrieved and SF not yet repaired to good working order. It was also noted that per plan ditch measures including PAM devices were not in place draining to Str 1406 vicinity -L- Sta 135+/- to 139+/- Lt as a result of recent grading activities. An earthen dam skimmer is in place in lieu of excavated type B silt basin 14.1F.

\*As noted on the July 15th NPDES Inspection at Permit Sites 23/24, vicinity -L- Sta 154+/- Rt: Sediment deposited in the rip rap ditch due to undercut silt fence. Approximately 5-6 five-gallon buckets worth. Sediment reclamation, fresh rip rap, and silt fence repair are needed.

\*This area was not reviewed on July 31st. The RE Office indicated this item has not been addressed as of July 31st.

August 8th Follow Up: Some SF repair has taken place and TRSC-A installation adjacent to Str 1517. Sediment retrieval has not yet been pursued from the rip rap ditch. Additionally, it was noted that per plan ditch measures were not in place draining to Str 1517 which is contributing to the material migrating into site 23/24.

-EC containment needed at the haul path adjacent to -Y3-, vicinity Sta 12+/- to 14+/- Rt. Inlet protection needed at the existing DI that drains to the JS and SF above the pipe outlet to provide containment. \*Has been noted on multiple previous reviews.

August 8th Follow Up: Not addressed

\*\*The following items were noted on the Immediate Corrective Action report and had been addressed prior to the tropical event.

July 23rd Note: \*As noted on the July 8th NPDES Inspection at Permit Site 7, vicinity -L- Sta. 60+00 LT: Sediment deposited in rip rap by the 30 inch pipe and beyond the rip rap into the JS. Approximately 1CY worth of sediment to recover. The source of the material was the unprotected inlet of the 30 inch pipe and significant disturbance associated with toe protection installation and basin 8.2F removal. Sediment needs retrieved and stabilized in accordance with guidance from NCTA Environmental, sediment removed from the rip rap and rip rap replaced as needed and EC re-installed at the pipe inlet to provide containment. \*Urgent items.

July 31st Follow Up: SF was installed at the pipe inlet and sediment retrieval was underway at the time of review. Outlets are needed in the SF and stabilization is needed around the pipe inlet. Danny indicated this would be addressed the day of review. Also, stabilization is needed of the surrounding disturbed areas.

August 8th Follow Up: Containment was in place around the pipe inlet but has failed as a result of tropical event and should be treated as Urgent. Additional stabilization and wattles needed on the up station side of the pipe inlet.

July 23rd Note:\*As noted on the July 22nd NPDES Inspection at Permit Site 34/35, vicinity Waste Pit OTCB at approximate -Y5- Sta 53+/- Lt: Sediment deposited in wetland heading towards OTCB. Approximately 8-9 five-gallon buckets worth. Sediment reclamation is needed. Outlets needed in the recently re-installed SF. \*Urgent items and had not been addressed at the time of review.

July 31st Follow Up: Some sediment retrieval has taken place. Recommend coordination with NCTA Environmental to determine if clean up is adequate and pursue stabilization. Additional outlets have not been installed and SF has not been maintained.

August 9th Follow Up: One additional outlet installed. Tropical event has caused continued degradation of the waste fill, and additional Urgent SF and SSCF outlets maintenance throughout as well as additional sediment discharge into the adjacent wetland.

July 23rd Note: -Basin 7.2F Removal: The following items were noted during the March 2nd, 2024 Design review regarding basin 7.2F: "There was discussion about Skimmer Basin 7.2 F and the diversion leading to it and whether they could both be removed in a few weeks once Flatiron-Branch is ready to install the toe

protection and complete any work in the area. It is recommended that it could be removed with the note that, if possible, the upgradient slope in the area be reseeded and vegetation established prior to removal as it was noted that a large portion of the slope had very sparse vegetation. If not, temporary silt fence should be placed at the toe of slope with temporary silt fence outlets. The silt fence on the outside of the basin should remain in place once the basin and diversion have been removed. Depending on the extents of disturbance, coir fiber wattles might be necessary in the removed diversion and basin areas." Note that it did not appear efforts were made to re-vegetate the slope as recommend by the designers and SF with outlets was also not installed.

Additionally, the SF around the perimeter of the basin footprint was also in need of Urgent maintenance.

July 31st Follow Up: Wattle installation and SF installation not addressed. Walter indicated wattles would be installed.

August 8th Follow Up: See notes pertaining to Permit Site 6 regarding EC repair needed. Wattles have been installed along the toe and stabilization pursued on the slope.

July 23rd Note: -Basin 8.2F Removal: The following items were noted during the March 2nd, 2024 Design review regarding basin 8.2F: "There was discussion about Skimmer Basin 8.2 F and the diversion leading to it and whether they could both be removed in a few weeks once Flatiron-Branch is ready to install the toe protection and complete any work in the area. It was noted during the site visit that the area is fairly well vegetated and established. When removing the basin and diversion steps should be taken to limit the amount of area disturbed during the final work in the area. It is recommended that the basin and diversion could be removed. It should be verified that the temporary silt fence on the outside of the basin is there and remains in place after the basin is removed to protect the jurisdictional resource. Dependent on the extent of ground disturbance, coir fiber wattles might be necessary in the area to prevent sediment runoff." Note that the entire slope was re-worked draining to the basin footprint location. Also, as noted at the Permit Site 7 concern noted above, SF was not in place to provide containment adjacent to the pipe inlet. \*Urgent Items

July 31st Follow Up: Wattle installation not addressed. This item was discussed during the design review the design partners indicated they would provide additional recommendations as a result of disturbance on the slope.

August 8th Follow Up: See notes above regarding maintenance needs at Permit Site 7. Wattles were installed and stabilization pursued on the adjacent fill slope.

\*As noted on the July 8th NPDES Inspection at Permit Site 3, vicinity -Y1RPD- Sta 11+50+/- Lt: Both temporary silt fence and SDOs at pipe outlet were overwhelmed and or damaged from washes in fill slope adjacent to permit site. #57 stone and silt needs retrieved in rip rap splash pad, as well as pockets of silt in wetland area.

\*As of July 31st: Sediment retrieval was underway. EC maintenance has not been addressed. Outlets needed in the SF along the rip rap ditch vicinity -Y1RPD- Sta 11+50+/- to 14+50+/- Lt. The need to install additional outlets in the SF was also noted on the June report.

August 8th Follow Up: Items addressed. Additional stabilization needed. Also, Urgent maintenance and potential retrieval noted as a result of tropical event.

\*As noted on the July 8th NPDES Inspection at Permit Site 10, vicinity -L- Sta 71+/- Rt: Noise wall undermined resulting in sediment washing down slope and overwhelming SDO. Sediment, 57 stone, and rip rap have been displaced past the 36" pipe outlet. Estimate roughly 1-2 CY of material has been lost and will need recovered.

\*As of July 31st: Some maintenance has been pursued and rip rap re-installed since July 8th. However, additional Urgent SF and SSCF outlet maintenance needed as well as additional retrieval from the toe protection.

August 8th Follow Up: Appears SF and outlet maintenance was pursued and material retrieved from the toe protection. The tropical event has cause additional Urgent maintenance and sediment retrieval and rip rap replacement.

\*As noted on the July 15th NPDES Inspection at Permit Site 35, vicinity -Y5RPA- Sta 23+/- Rt: Skim layer of sediment deposited on rip rap, probably coming from loss in waste pit. Appears to be a couple shovels worth. Next rip rap section down appears to be clear of sediment. Rip rap near culvert appears to have residual deposits.

\*As of July 31st: Sediment retrieval has not been pursued. Coordination is needed with NCTA Environmental to determine extent of sediment retrieval from the JS and rip rap channel changes.

August 9th Follow Up: Sediment retrieval from the rip rap pursued prior to tropical event. Noted Urgent SF and outlet maintenance needed and it appears additional discharge likely due to tropical event. Also noted additional grading of the fill slope since previous visit.

\*As noted on the July 8th NPDES Inspection up slope and draining to Permit Site 41, vicinity -Y1RPBREV- Sta 21+/- Lt: Silt fence failure and overwhelmed SDO, Lt of Y-1 ramp B station 21+00. Silt migrated through temporary silt fence and past failure in silt fence. Silt went in wooded area and through sewer easement which all leads to permit site 41. Material will have to be followed and retrieved with shovels and buckets. 10 plus

five-gallon buckets of offsite material estimated.

\*As of July 31st: Stabilization has been pursued on the adjacent ramp fill slope and some sediment retrieval from beyond the project limits. Coordination is needed with NCTA Environmental to ensure retrieval is adequate from the offsite resource and stabilization pursued.

\*August 8th Follow Up: Additional measure installed, appears urgent maintenance and continued retrieval was generated by tropical event.

As noted above, the project received tropical rainfall on August 7th, 8th, and 9th. The rainfall on August 8th and 9th exceeded the 1 inch threshold according to MPE data generating the need to complete NPDES Inspections per the NCG01 Permit on August 9th and the following working day after August 9th. It is anticipated that the rainfall caused significant maintenance needs at various areas throughout the project. This review does not serve as the NPDES Inspection. Ensure necessary efforts are dedicated to maintenance generated by recent rainfall in accordance with the Routine and Urgent timeframes in addition to the ongoing Immediate Corrective Action items noted above.

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



**Project Information**

Inspection Date: 08/19/2024      Evaluator: Aaron Harper  
 Project #: 37673.3.GV3      TIP #: R-2721A      Contract #: C204196  
 Division #: 5      County: Wake  
 Project Type: Turnpike      Engineer: Turnpike Resident  
 Project Length: 4.47      Disturbed Acres:  
 River Basin: Neuse      HQW Zone: NO      Trout Zone: NO  
 Location Description: Complete 540 - From West of NC55 Bypass to east of Pierce Olive Road (SR 1389)

**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
4.47	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:**

\*\*\*This report constitutes lifting of the ICA status on the project. See notes below regarding the items that were reflected on the ICA-Ext 1st report.

I reviewed the items noted on the ICA-Ext 1st report on August 16th will the following:

Flatiron-Branch JV: Jon, Vicente, Sam, Raymond  
 RE Office: Donald, Anthony, Caroline

I followed up on August 19th with the following:

Flatiron-Branch JV: Sam, Raymond  
 RE Office: Donald

July 23rd Note: \*Vicinity -LREV- Sta 53+/- Rt: Private property was utilized to access the project for the removal of basins 7.2F and 8.2F. Equipment was used to blade a path from the adjacent parcel to the project, adjacent to a wetland and buffer area without a Reclamation Plan. Staking is needed to determine if the wetland and/or buffer areas were impacted. All disturbance beyond the project limits should be dressed and stabilized with permanent means and EC re-installed to provide containment. This should also be coordinated with NCTA Environmental if the wetland and/or buffer areas were impacted. If this parcel is needed in support of the project, then the Reclamation Plan process must be followed. \*Urgent Items.

July 31st Follow Up: SF installed. Need to dress and pursue permanent stabilization of areas impacted beyond the project limits

August 8th Follow Up: Impacts not yet dressed or stabilized.

August 16th Follow Up: Stabilization pursued.

July 23rd Note: \*As noted on the July 16th NPDES Inspection at Permit Site 5, vicinity -L- Sta. 49+00 Rt: Sediment transported into mech clearing due to downed silt fence. Sediment released from rills in slope above permit site. Approximately 2 to 3 five-gallon buckets worth across the downed fence. Sediment reclamation, silt fence repair, and slope repair required. \*Urgent Item and had not yet been addressed at the time of review.

July 31st Follow Up: Perimeter EC has been maintained and sediment retrieval has been pursued. Remaining

disturbed footprint needs stabilized with wetland seed and in accordance with guidance from NCTA Environmental. Groundcover is needed of the surrounding fill slopes in accordance with the NCG01 timeframes.

August 8th: Stabilization has not yet been pursued in the wetland area. It appears seeding had taken place in the wetland prior to rainfall and some germination noted. Also, additional discharge appears to have occurred due to tropical event and needs retrieved prior to stabilization. Recommend coordination with NCTA Environmental regarding retrieval.

August 16th Follow Up: Sediment retrieval complete and coir fiber matting installed.

July 23rd Note: \*As noted on the July 16th NPDES Inspection at Permit Site 6, vicinity -L- Sta. 51+00 Rt: Sediment lost into mech clearing area due to silt fence failure. Estimate 1/2 CY of sediment. \*Urgent item and had not yet been addressed at the time of review.

July 31st Follow Up: Additional retrieval is needed on the up station side of the permit site. Recommend coordinating with NCTA Environmental to determine if retrieval from the resource is adequate and pursue stabilization. Some SF has been installed. Continued efforts are needed to maintain/re-set SF and SSCF outlets.

August 8th Follow Up: Retrieval had not yet been pursued. It appears additional discharge occurred as a result of tropical event. Continued coordination needed with NCTA Environmental regarding retrieval and stabilization in the wetland. Also, adequate efforts had not been made to re-secure the site. SF and outlets were installed inside of failed SF and outlets with a strip of disturbance remaining. Continued repair/maintenance/re-installation of perimeter per plan containment needed, including removal of old failed SF and outlets.

August 16th Follow Up: Minor amount of retrieval to be completed from the wetland. SF needs properly trenched in. Personnel mobilized to address this the day of review. Failed row of SF and SSCF outlets needs removed and replaced just east of the 48 inch inlet.

August 19th Follow Up: Retrieval pursued, EC maintenance completed, and SF was that not properly trenched was re-installed correctly.

July 23rd Note: \*As noted on the July 8th NPDES Inspection at Permit Site 37, vicinity -L- Sta. 203+00 Rt: Silt has settled in wetland area past 42" pipe outlet. Both rip rap and geotextile were displaced from high velocity of storm water outfall from rain event. Noted Urgent inlet protection clean out and maintenance needed at several DIs that drain to this location. Sediment retrieval from the wetland area should be coordinated with NCTA Environmental. \*Urgent Items and had not been addressed at the time of review.

July 31st Follow Up: Walter and Danny indicated retrieval was pursued with a vac truck. However, it appears additional retrieval is needed. Recommend coordination with NCTA Environmental to determine if additional sediment retrieval from the wetland is needed. Continued maintenance is needed at the inlet protections that drain to this location.

August 9th Follow Up: Appears additional retrieval remains to be completed.

August 16th Follow Up: Sediment retrieval ongoing. Ensure retrieval continues to completion and is coordinated with NCTA Environmental. Also, rip rap dissipator will need cleaned out and rip rap replaced.

August 19th Follow Up: Retrieval ongoing. Sub contractor has remained on site and should remain on site until clean up is completed. Also, rip rap dissipator will need cleaned out and rip rap replaced prior to turning pipe system live.

July 23rd Note:\*As noted on the July 8th and 22nd NPDES Inspection at Permit Site 34/35, vicinity Waste Pit OTCB approximate -Y5- Sta 49+/- Lt: Sediment deposited in wetland heading towards OTCB. Approximately 8-9 five-gallon buckets worth. Sediment reclamation is needed. Source of sediment was a failed slope drain, significant slope washing, and failed SF. Devices need repaired/re-installed, washing repaired, and sediment retrieved from the wetland area and stabilized in accordance with guidance from NCTA Environmental. \*Urgent items and had not been addressed at the time of review.

July 31st Follow Up: The slope drain inlet was repaired, some slope washing repaired. Recommend coordination with NCTA Environmental to determine if retrieval from the wetland is adequate and pursue stabilization. SF maintenance, basin clean out and maintenance, and inlet protection clean out and maintenance have not been pursued.

August 9th Follow Up: Basin was cleaned out prior to tropical event. Does not appear SF maintenance or inlet protection clean out and maintenance were pursued. Tropical event has caused the slope drain to fail, and the SF failures to increase in severity. Additional sediment discharge into the adjacent wetland was noted.

August 16th Follow Up: Water levels have receded and it was noted that sediment deposition occurred in the rip rap at the outlet of the pipe as well as within the pipe itself. The inlet protection at the OTCB was maintained, basin cleaned out, SF repaired and matting and wattles installed, as well as retrieval from the adjacent wetland. Retrieval from the outlet rip rap and from the pipe needs addressed and stabilization pursued at the wetland retrieval footprint adjacent to basin 17118. Skimmer also needs re-attached at basin 17118.

August 19th Follow Up: Skimmer re-attached at basin 17118, wetland footprint stabilized. Contractor provided

photo documentation the day of review of cleaned out pipe and rip rap bank stabilization addressed.

July 23rd Note: \*As noted on the July 22nd NPDES Inspection at Permit Site 35, vicinity -Y5RPA- 21+00 RT: Slope washed out and sediment deposited at bottom. Coordination is needed with NCTA Environmental to determine extent of sediment retrieval from the JS and rip rap channel changes. The wash occurred as a result of runoff undermining the noise wall due to Str 1757 being blocked. Str 1757 should be opened to flow as designed, and inlet protection installed around the top of the box or back of curb. Also, noted groundcover needs at various areas throughout draining to this system. \*Urgent Items and had not been addressed at the time of review.

July 31st Follow Up: Perimeter measures maintenance has been pursued. Sediment retrieval and wash repair have not been addressed.

August 9th Follow: Does not appear sediment retrieval was pursued prior to tropical event. Additional sediment retrieval likely. Also, additional grading has taken place of the fill slope since last visit.

August 16th Follow Up: Sediment retrieval coordination needed from the channel changes. Stabilization has been pursued on the ramp fill slopes.

\*Urgent Maintenance needed at the SSCF outlet vicinity -L1- Sta 22+/- Lt.

August 9th Follow Up: Does not appear maintenance was pursued prior to tropical event.

August 16th Follow Up: Maintenance pursued. Ensure stabilization is pursued of the disturbance associated with maintenance

\*As noted on July 8th vicinity -Y5D- Sta 12+/- Rt: Sediment and 57 stone transported beyond silt fence at Lockley Road. Material either overtopped or undermined silt fence, roughly 1-2 5-gallon buckets worth.

\*As of July 31st: Material needs retrieval, silt fence repair, and sediment pile removed from nearby area.

Recommend staking the R/W limits to determine if material migrated beyond the project limits.

August 9th Follow Up: Appears some SF maintenance took place and sediment pile removed. However SF and SSCF outlet were not repaired. It appears additional sediment discharge occurred as a result of tropical event. Staking of the R/W limits needed to determine if material migrated beyond the project limits.

August 16th Follow Up: SF and SSCF outlet repaired. R/W was staked the day of review. Retrieval and stabilization pursued beyond the R/W.

\*As noted on the July 8th NPDES Inspection at Permit Site 8, vicinity -L- Sta 79+/- Rt: Sediment deposited past silt fence limits and onto rip rap at culvert outlet. Sediment overwhelmed silt fence outlet and bypassed fallen silt fence to create multiple pockets beyond EC measures. Sediment and 57 stone apparent in open pipe system where an impoundment is installed. Minimal material in stream but accumulation in rock armor is hard to quantify. Guessing 1/2 CY

\*Not addressed as of July 31st. Note that SF and SSCF outlets were overwhelmed as a result of Str 0909 being blocked causing runoff to flow out of the man hole opening. Str 0909 was blocked to prevent sediment from discharging the system (Noted on May 22nd Report). Sediment in the pipe system should be removed so the storm drain system can function as designed.

August 8th Follow Up: Contractors records show the structure was cleaned out and the pipe block removed but the pipe system has not yet been cleaned out. Also, perimeter SF and outlet repair does not appear to have been addressed.

August 16th Follow Up: Majority of repair completed, contractors records reflect pipe system was cleaned out. SSCF outlet maintenance and SF maintenance to be completed above the headwall and wing walls. Crews on site during review.

August 19th Follow Up: SF and SSCF outlets maintenance pursued.

\*As noted on the July 8th NPDES Inspection at Permit Site 17, vicinity -L- Sta 116+/- Rt: SDO overwhelmed at pipe outlet as well as silt fence failure. Silt migrated through tall grass and settled near back section of permit area. Estimate several five gallon buckets worth of sediment lost.

\*As of July 31st: EC was maintained. Sediment retrieval has not been addressed. Also, attention is needed to manage runoff behind the wall that is causing washing and contributing to the devices being overwhelmed. I was notified the roadway fill slope was scheduled for stabilization the week of review.

August 8th Follow Up: The roadway fill slope was not stabilized and runoff management along the back of the wall was not addressed. Tropical rain led to urgent maintenance needed of the containment measures at the wetland.

August 16th Follow Up: Significant amount of grading behind the wall. Stabilization pursued on the fill slope. Raymond indicated disturbed areas behind the wall would be stabilized the week following review and wattle barriers would be installed to slow velocity from the estimated 0.3 acres of disturbance. EC Repair around the wetland completed and the roadway fill slope has been stabilized.

\*As noted on the July 8th NPDES Inspection at Permit Site 30, vicinity -Y5RPC- Sta 20+/- Rt: Sediment coming

out the 36" RCP re-deposited into previously cleaned area. New sediment in rip rap (and some 57 stone) and a skim layer in wooded areas with one small pocket. Removal of sediment from rip rap and wooded areas required to ensure smooth flow of water.

\*As of July 31st: Sediment retrieval has taken place. Inlet protection clean out and maintenance not addressed at Str 1705 and 1708. Also, per plan measures are needed in the ditch line vicinity -Y5RPC- Sta 17+50+/- to 22+/- Lt.

\*August 8th Follow Up: Per plan ditch measure installation and maintenance was not pursued. It appears that tropical event has caused additional sediment discharge.

August 16th Follow Up: Ditch measures installed, sediment retrieval pursued. Ensure stabilization is pursued in the retrieval footprints.

August 19th Follow Up: Stabilization pursued

\*As noted on the July 8th NPDES Inspection on the inlet of Permit Site 18, vicinity -L- Sta 126+/- Lt: Sediment undercut/overtopped silt fence and deposited in permitted area. Approximately 4-5 five-gallon buckets worth of silt deposited. Sediment reclamation and silt fence repair needed after water has been removed/dried.

\*As of July 31st: Not Addressed

August 8th Follow Up: Sediment retrieval and SF and SSCF maintenance addressed. Stabilization needed in the buffer.

August 16th Follow Up: Stabilization addressed

\*As noted on the July 15th NPDES Inspection at the outlet of Permit Site 18, vicinity -L- Sta 126+/- Rt: Water at outlet appears significantly turbid. Unable to identify any failures. Will continue to monitor area as conditions improve.

\*As of July 31st: Water levels have receded and it does not appear retrievable sediment was located within the channel. At the time of review, earthwork operations were underway in the ditch line vicinity -L- Sta 127+50+/- to 131+/- Lt and per plan ditch measures were not in place. Per plan ditch measures should be installed, including the application of PAM.

August 8th Follow Up: Earthen dam skimmer installed in lieu of excavated type B silt basin 13.1F. Per plan ditch measures with PAM not in place.

August 16th Follow Up: Ditch measures installed

\*As noted on the July 15th NPDES Inspection at Permit Site 19, vicinity -L- Sta 142+/- Rt: Sediment deposited in rip rap by the culvert due to silt fence failure. Approximately 5-6 five-gallon buckets worth. Sediment reclamation, fresh rip rap, and silt fence repair are needed.

\*This area was not reviewed on July 31st. The RE Office indicated this item has not been addressed as of July 31st.

August 8th Follow Up: Material has not yet been retrieved and SF not yet repaired to good working order. It was also noted that per plan ditch measures including PAM devices were not in place draining to Str 1406 vicinity -L- Sta 135+/- to 139+/- Lt as a result of recent grading activities. An earthen dam skimmer is in place in lieu of excavated type B silt basin 14.1F.

August 16th: SF and outlet maintenance remains to be completed above the headwall and toe protection. Material needs removed from the SF and SF replaced as needed.

August 19th Follow Up: SF maintained

\*As noted on the July 15th NPDES Inspection at Permit Sites 23/24, vicinity -L- Sta 154+/- Rt: Sediment deposited in the rip rap ditch due to undercut silt fence. Approximately 5-6 five-gallon buckets worth. Sediment reclamation, fresh rip rap, and silt fence repair are needed.

\*This area was not reviewed on July 31st. The RE Office indicated this item has not been addressed as of July 31st.

August 8th Follow Up: Some SF repair has taken place and TRSC-A installation adjacent to Str 1517.

Sediment retrieval has not yet been pursued from the rip rap ditch. Additionally, it was noted that per plan ditch measures were not in place draining to Str 1517 which is contributing to the material migrating into site 23/24.

August 16th Follow Up: SF and SSCF outlets repaired, material retrieved and rip rap replaced. Grading and rip rap installation underway at the berm ditch draining to structure 1517. Grading was also underway at -Y4- Sta 23+/- Lt. Ditch line measures had not yet been installed and containment needed around the rip rap ditch or ditch measures installed in the rip rap.

August 19th Follow Up: Wattles to be installed day of review, should be installed in the swale that was created along the rip rap berm ditch. RE Office should coordinate with the DB team regarding what the berm ditch was intended to convey as currently constructed, offsite water would bypass the berm ditch. Contractor provided photo documentation of wattle installation the day following review. Wattles will need to be extended to prevent by-pass.

-EC containment needed at the haul path adjacent to -Y2-, vicinity Sta 12+/- to 14+/- Rt. Inlet protection

needed at the existing DI that drains to the JS and SF above the pipe outlet to provide containment. \*Has been noted on multiple previous reviews.

August 8th Follow Up: Not addressed

August 16th Follow Up: Containment established

NPDES Record Keeping:

NPDES Inspection records were reviewed for the previous month. The following two concerns were noted:

-Noted "rollover" documented as the date for several items. However, the item was not reflected on subsequent inspection records. Raymond indicated rollover would no longer be used, but would include date once items are completed.

-Noted a lack of documentation of the items reflected on the ICA reports. Moving forward, efforts need to be made to ensure records accurately reflect maintenance needs on the project.

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: 08/01/2024                      Evaluator:                      Aaron Harper  
 Project #:                      37673.3.TA3                      TIP #:                      R-2721B                      Contract #: C204198  
 Division #:                      5                      County:                      Wake  
 Project Type:                      Turnpike                      Engineer:                      Turnpike Resident  
 Project Length:                      4.92                      Disturbed Acres:                      0  
 River Basin:                      Neuse                      HQW Zone:                      NO                      Trout Zone:                      NO  
 Location Description:                      NC-540 Triangle Expressway Southeast Extension from East of Pierce Olive Rd to East of US-401 (Fayetteville 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
4.92	The Entire Project	7	7	6	6	6

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

**ICA Comments:**

**Immediate Corrective Actions Notes:**

Note that an Immediate Corrective Actions report is being issued as a result of non-compliance with the requirements of the Sedimentation and Pollution Control Act and the NCG01 Permit. The project is currently not in compliance with the requirements of the SPCA and NCG01 Permit due to:

- Failure to implement EC devices in accordance with the approved plan.
- Failure to maintain EC devices in accordance with the approved plan and in a timely manner.
- Failure to maintain NPDES Documentation.
- Impacts/Disturbance beyond the project limits.

Details of these occurrences are outlined in the body of this report. These deficiencies should be addressed in order for the project to no longer fall under ICA Status. The project will be revisited in 5 working days.

**Remarks and Recommendations:**

Reviewed with Donald and Caroline

This review was conducted as a follow-up to the site visit on July 23rd. Items that were noted on the report following that visit are included in this report with updates as of August 1st. The Following Items should be addressed in order to lift ICA Status.

NPDES Records: Most recent signed inspection was the set for the week of June 24th thru June 30th.

Inspection records since have correctly not been signed due to record keeping deficiencies including blanks as well as incomplete maintenance.

July 23rd Note: \*As noted on the July 22nd NPDES Inspection at Permit Site Number 23, vicinity -Y13- Sta. 65+50 LT: Sediment from raw median washed into pipe system and discharged into the rip rap at the outlet of the 24" RCP. Sediment does not appear to have passed the rip rap, but difficult to determine with CA fence up. Approximately 1/2 CY worth. Sediment needs removed, rip rap refreshed, and erosion control placed in median. \*Urgent item and had not yet been addressed at the time of review.

August 1st Follow Up: \*No change since previous week other than paving along -Y13-. Ditch line measures needed vicinity -Y13- Sta 67+/- to 69+/- Lt, groundcover needed in accordance with the ESA requirements, stabilization needed in the median, and Urgent SDO maintenance.

July 23rd Note: \*Noted areas beyond the project limits were used for staging associated with noise wall construction vicinity -Y13- Sta 31+/- Lt. Any remaining material beyond the project limits need removed including waste concrete and remaining disturbance dressed and permanent seeded. \*Urgent Item.

August 1st Follow Up: Not addressed.

July 23rd Note: \*As noted on the July 22nd NPDES vicinity -Y13- Sta. 32+00 LT: Sediment from raw median and shoulder drained through pipe system and into the rip rap at the outlet of the 30" RCP and beyond the project limits. Approximately 1CY worth of material. Sediment needs removed, rip rap refreshed, and erosion control placed in median and shoulder. \*Urgent Item and had not yet been addressed at the time of review.

August 1st Follow Up: New rip rap was installed in the ditch line since previous visit, however, appears rip rap was placed on top of sediment. Need to remove sediment from the rip rap lined ditch and replace rip rap as needed. Sediment retrieval from beyond the DUE has not yet been pursued. Per plan ditch line measures also needed draining to Str 3105. Also need to close the gap in the SF adjacent to the rip rap ditch.

Sediment loss was reported on July 24th associated with water line break vicinity -Y13- Sta 38+/- Lt. August 1st Follow Up: Some silt fence maintenance and sediment retrieval has been pursued. Sediment retrieval needs to continue to completion, SF correctly maintained and outlets installed, and stabilization pursued at the adjacent disturbed areas.

Rainfall caused sediment loss on July 15th into the apartment parking vicinity -Y13- Sta 34+50+/- Lt.

August 1st Follow Up: Additional discharge of material was noted. The sand bag diversion needs re-installed and SF clean out and maintenance pursued as well as stabilization of the surrounding disturbed areas. \*Urgent Item

July 23rd Note: \*As noted on the July 22nd NPDES Inspection at Permit Site Number 20, vicinity -Y13RPD- Sta. 20+00: Sediment deposited into rip rap near the edge of permit site. Approximately 1/2 CY worth. Likely due to sediment entering pipe system upgrade. Sediment removal and rip rap refresh needed. \*Urgent item and had not yet been addressed at the time of review.

August 1st Follow Up: Not addressed

July 23rd Note:\*As noted on the July 15th and July 22nd NPDES Inspections at Permit Site 9, vicinity -Y10A- Sta. 14+00: Sediment from slope washed down into toe protection near 66-inch pipe outlet. Sediment appears to be trapped within Class B stone along toe of slope but not in outlet pad below pipe. Some 57 stone deposited beyond SDO adjacent to wetland and buffer. Slope repair, material reclamation, rip rap cleanout, and Urgent SDO repair needed. \*Urgent item and had not yet been addressed at the time of review.

August 1st Follow Up: Not addressed

July 23rd Note: \*Vicinity -Y12- Sta 11+50+/- Rt: Per plan containment measures not in place at the time of review at the outlets of the pipes. Note that there is an adjacent wetland to this location. Wetland limits need to be staked and containment measures installed, and disturbance needs dressed and permanently seeded. \*Urgent Item.

August 1st 2024 Follow Up: SF installed and seeding and matting pursued, however, a ditch was cut that would cause runoff to bypass the SF and no ditch measures were installed. Additionally, no per plan measures were re-installed draining to this location. Additional disturbance has also taken place beyond the R/W and project limits associated with rip rap ditch construction at two locations, vicinity -Y12- Sta 13+50+/- Lt and 12+/- Lt. Impacts beyond the R/W and Easement need dressed and permanently stabilized.

July 23rd Note:\*As noted on the July 15th and July 22nd NPDES Inspections at Permit Site 17, vicinity -L- Sta. 437+00 to 439+50 Rt: Sediment from slope rills overtook silt fence and deposited material into the wetland area. Approximately 1 -2 five-gallon bucket worth. Sediment needs retrieved and silt fence repaired.\*Urgent Item and had not been addressed at the time of review.

August 1st Follow Up: Not addressed. Need to clean off and replace SF along majority of toe protection. Fill slope has minimal permanent vegetative cover and washing/rilling throughout.

Additional Concerns Noted During August 1st Follow Up that need Addressed in order to lift ICA Status:

\*Urgent Item at -Y10A-: Recent work at the pipe inlet has generated urgent maintenance at the SF and SSCF outlets around the headwall. Also, per plan ditch line measures are needed vicinity -Y10A- Sta 13+50+/- to 15+/- Lt.

-Groundcover needed in the gore area between -Y13- Ramp A, -L-, and -Y13- Loop A. Groundcover was previously pursued, however, minimal coverage or vegetation remain. \*Also noted on previous review.

-Groundcover needed in accordance with the NCG01 timeframes vicinity -Y13LPA-. \*Also noted on previous review.

-Groundcover needed at various areas throughout -Y13-, including the median island, the fill slope above Permit Site 23 and adjacent to the noise wall construction associated with the loss vicinity Sta 33+/- Lt, in accordance with NCG01 timeframes.

-Per plan ditch line measures needed vicinity -Y13- Sta 67+/- to 68+/- Lt.

-Per plan ditch line measures needed vicinity -Y13- Sta 32+/- to 34+/- Lt behind the noise wall.

-Ditch measures should be constructed as TRSC-As per plans vicinity -Y12- Sta 11+50+/- to 12+/- Lt and 13+50+/- to 18+/- Rt.

-Per plan ditch measures needed vicinity -Y7- Sta 13+/- to 23+/- Lt.

-Per plan outlets needed in the SF vicinity -Y7- Sta 16+/- to 18+/- Rt.

-Per plan ditch measures needed vicinity -Y7- Sta 11+/- to 13+/- Rt.

-As noted on the July 22nd NPDES Inspection vicinity -Y12- Sta. 13+00: Sediment collected in rock at 30? RCP inlet. Approximately 1/2 CY worth. Slope needs repair, rip rap replaced, and sediment removed. \*Not yet addressed at the time of review.

\*As noted on the July 22nd NPDES Inspection at Permit Site Number 20, vicinity -Y13RPD- Sta. 20+00: Sediment deposited into rip rap near the edge of permit site. Approximately 1/2 CY worth. Likely due to sediment entering pipe system upgrade. Sediment removal and rip rap refresh needed. \*Urgent item and had not yet been addressed at the time of review. August 1st Follow Up: Not Addressed

-Basin 17.1B needs adjusted/revised to be built as a skimmer per design revision provided by HDR and approved by REU field ops on February 23rd. \*Noted on multiple previous reviews

The Following Additional Concerns were Noted on July 23rd:

-Noted non-approved materials being wasted in the gore area vicinity -Y13- Ramp A and Ramp D including geotextile fabric, HDPE pipe, pump hoses, and clearing debris. Also, need to ensure rocks are removed and clods are broken per spec for permanent seeding. \*Also noted on previous review.

Recommendations Moving Forward:

-Ensure diversions and TSDs are reinstalled daily and in advance of forecasted rains as cut/fill operations progress.

-Continue pursuing the early installation of EC devices as soon as construction allows per spec and per plans.

-Pursue permanent vegetative groundcover as soon as construction allows. Any disturbed area which remains IDLE for greater than 7 or 14 days should be stabilized.

-Utilize slope drains to manage runoff down slopes. Ensure diversions/slope drains are re-installed daily as grading progresses.

-Continue utilizing and maintaining construction entrances at all access points to prevent tracking material onto the roadways.

-In areas noted as Environmentally Sensitive Areas:

-Ensure work progresses in a continuous manner to a state of stabilization per Project Special Provisions.

-Ensure stage seeding is utilized as fill/cut operations progress per Project Special Provisions.

-Ensure Grubbing is not performed until immediately prior to grading operations in any areas noted as an ESA per Project Special Provisions.

-Ensure construction entrances are routinely maintained to prevent tracking onto the roadway.

-NPDES Inspections were reviewed. Concerns have been noted above. NPDES Records should be maintained once every 7 days and within 24 hours of 1 inch of rainfall in a 24 hour period until greater than 80% permanent vegetative cover is achieved throughout the project. Please reach out to this office if additional guidance is needed.

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

## ICA EX 1st

### Immediate Corrective Action Extension (First Issuance)

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: 08/09/2024	Evaluator: Aaron Harper
Project #: 37673.3.TA3	TIP #: R-2721B      Contract #: C204198
Division #: 5	County: Wake
Project Type: Turnpike	Engineer: Turnpike Resident
Project Length: 4.92	Disturbed Acres: 0
River Basin: Neuse	HQW Zone: NO      Trout Zone: NO
Location Description: NC-540 Triangle Expressway Southeast Extension from East of Pierce Olive Rd to East of US-401 (Fayetteville 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
4.92	The Entire Project	7	7	6	6	6

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

#### ICA EX 1st Comments:

This review was conducted as a follow up to the Immediate Corrective Action report issued on August 1st. An ICA Extension is being issued as items noted on the Immediate Corrective Action report have not been completed. Please note that the project experienced a tropical rainfall event that generated approximately 0.8 inches of rainfall on August 7th, between 3.2 and 3.3 inches of rainfall on August 8th, and between 1 and 1.2 inches of rainfall on August 9th according to current MPE rainfall data. The items noted below are separated into two sections. The first are items that were noted on the Immediate Corrective Action report and have not been adequately addressed. The second are items that were noted on the Immediate Corrective Action report and were addressed prior to the tropical event.

The project will be revisited in 5 working days.

#### Remarks and Recommendations:

\*\*\*Project Remains Under ICA Status\*\*\*

Reviewed with Donald and Caroline

\*\*The Following Items were noted on the Immediate Corrective Action report and have not yet been addressed.

Lifting of the ICA is contingent on the following items being adequately addressed:

July 23rd Note: \*As noted on the July 22nd NPDES Inspection at Permit Site Number 23, vicinity -Y13- Sta. 65+50 LT: Sediment from raw median washed into pipe system and discharged into the rip rap at the outlet of

the 24" RCP. Sediment does not appear to have passed the rip rap, but difficult to determine with CA fence up. Approximately 1/2 CY worth. Sediment needs removed, rip rap refreshed, and erosion control placed in median. \*Urgent item and had not yet been addressed at the time of review.

August 1st Follow Up: \*No change since previous week other than paving along -Y13-. Ditch line measures needed vicinity -Y13- Sta 67+/- to 69+/- Lt, groundcover needed in accordance with the ESA requirements, stabilization needed in the median, and Urgent SDO maintenance.

August 8th Follow Up: Median stabilized. TRSC-As maintained adjacent to the rip rap outfall ditch. TRSC-As not yet installed vicinity -Y13- Sta 67+/- to 69+/- Lt, groundcover not yet pursued in accordance with the ESA requirements.

July 23rd Note: \*Noted areas beyond the project limits were used for staging associated with noise wall construction vicinity -Y13- Sta 31+/- Lt. Any remaining material beyond the project limits need removed including waste concrete and remaining disturbance dressed and permanent seeded. \*Urgent Item.

August 1st Follow Up: Not addressed.

August 8th Follow Up: Stabilization pursued. However, concrete waste not yet cleaned up. Additional stabilization will be needed following clean up.

July 23rd Note: \*As noted on the July 22nd NPDES vicinity -Y13- Sta. 32+00 LT: Sediment from raw median and shoulder drained through pipe system and into the rip rap at the outlet of the 30" RCP and beyond the project limits. Approximately 1CY worth of material. Sediment needs removed, rip rap refreshed, and erosion control placed in median and shoulder. \*Urgent Item and had not yet been addressed at the time of review.

August 1st Follow Up: New rip rap was installed in the ditch line since previous visit, however, appears rip rap was placed on top of sediment. Need to remove sediment from the rip rap lined ditch and replace rip rap as needed. Sediment retrieval from beyond the DUE has not yet been pursued. Per plan ditch line measures also needed draining to Str 3105. Also need to close the gap in the SF adjacent to the rip rap ditch.

August 8th Follow Up: Some rip rap replaced, additional efforts are needed. Per plan ditch line measures still needed draining to Str 3105.

Sediment loss was reported on July 24th associated with water line break vicinity -Y13- Sta 38+/- Lt. August 1st Follow Up: Some silt fence maintenance and sediment retrieval has been pursued. Sediment retrieval needs to continue to completion, SF correctly maintained and outlets installed, and stabilization pursued at the adjacent disturbed areas.

August 8th Follow up: Outlet installed in the SF. Stabilization not yet pursued, additional retrieval also not yet pursued. Appears the tropical event has caused additional sediment discharge beyond the project limits.

Rainfall caused sediment loss on July 15th into the apartment parking vicinity -Y13- Sta 34+50+/- Lt.

August 1st Follow Up: Additional discharge of material was noted. The sand bag diversion needs re-installed and SF clean out and maintenance pursued as well as stabilization of the surrounding disturbed areas. \*Urgent Item

August 8th Follow Up: Additional efforts needed to re-establish containment at the end of the SF.

July 23rd Note:\*As noted on the July 15th and July 22nd NPDES Inspections at Permit Site 9, vicinity -Y10A- Sta. 14+00: Sediment from slope washed down into toe protection near 66-inch pipe outlet. Sediment appears to be trapped within Class B stone along toe of slope but not in outlet pad below pipe. Some 57 stone deposited beyond SDO adjacent to wetland and buffer. Slope repair, material reclamation, rip rap cleanout, and Urgent SDO repair needed. \*Urgent item and had not yet been addressed at the time of review.

August 1st Follow Up: Not addressed

August 9th Follow Up: Not addressed

July 23rd Note: \*Vicinity -Y12- Sta 11+50+/- Rt: Per plan containment measures not in place at the time of review at the outlets of the pipes. Note that there is an adjacent wetland to this location. Wetland limits need to be staked and containment measures installed, and disturbance needs dressed and permanently seeded. \*Urgent Item.

August 1st 2024 Follow Up: SF installed and seeding and matting pursued, however, a ditch was cut that would cause runoff to bypass the SF and no ditch measures were installed. Additionally, no per plan measures were re-installed draining to this location. Additional disturbance has also taken place beyond the R/W and project limits associated with rip rap ditch construction at two locations, vicinity -Y12- Sta 13+50+/- Lt and 12+/- Lt. Impacts beyond the R/W and Easement need dressed and permanently stabilized.

August 9th Follow Up: Containment measures not installed, including around the rip rap ditches, pipe inlet, and outfall ditch measures. Some stabilization has taken place at the offsite impacts but will need to be re-dressed and re-seeded as a result of tropical event.

July 23rd Note:\*As noted on the July 15th and July 22nd NPDES Inspections at Permit Site 17, vicinity -L- Sta.

437+00 to 439+50 Rt: Sediment from slope rills overtook silt fence and deposited material into the wetland area. Approximately 1 -2 five-gallon bucket worth. Sediment needs retrieved and silt fence repaired.\*Urgent Item and had not been addressed at the time of review.

August 1st Follow Up: Not addressed. Need to clean off and replace SF along majority of toe protection. Fill slope has minimal permanent vegetative cover and washing/rilling throughout.

August 9th Follow Up: Some SF maintenance has taken place. However, SF was not cleaned off prior to replacement. Minimal permanent vegetative cover and rilling on the fill slope not addressed.

\*Urgent Item at -Y10A-: Recent work at the pipe inlet has generated urgent maintenance at the SF and SSCF outlets around the headwall. Also, per plan ditch line measures are needed vicinity -Y10A- Sta 13+50+/- to 15+/- Lt.

August 9th Follow Up: Stabilization pursued on the fill slope. Per plan ditch line measures not installed, SF and Outlets do not appear to have been maintained.

-Groundcover needed in accordance with the NCG01 timeframes vicinity -Y13LPA-. \*Also noted on previous review.

August 9th Follow Up: Stabilization not yet pursued.

-Per plan ditch line measures needed vicinity -Y13- Sta 67+/- to 68+/- Lt.

August 8th Follow Up: Per plan measures not yet installed.

-Ditch measures should be constructed as TRSC-As per plans vicinity -Y12- Sta 13+50+/- to 18+/- Rt.

August 9th Follow Up: Not addressed.

-Per plan ditch measures needed vicinity -Y7- Sta 13+/- to 23+/- Lt.

August 9th Follow Up: Not addressed.

-Per plan outlets needed in the SF vicinity -Y7- Sta 16+/- to 18+/- Rt.

August 9th Follow Up: Not addressed

-Per plan ditch measures needed vicinity -Y7- Sta 11+/- to 13+/- Rt.

August 9th Follow Up: Not addressed

-Basin 17.1B needs adjusted/revise to be built as a skimmer per design revision provided by HDR and approved by REU field ops on February 23rd. \*Noted on multiple previous reviews

August 9th Follow Up: Not addressed.

\*\*The following items were noted on the Immediate Corrective Action report and had been addressed prior to the tropical event.

July 23rd Note: \*As noted on the July 22nd NPDES Inspection at Permit Site Number 20, vicinity -Y13RPD- Sta. 20+00: Sediment deposited into rip rap near the edge of permit site. Approximately 1/2 CY worth. Likely due to sediment entering pipe system upgrade. Sediment removal and rip rap refresh needed. \*Urgent item and had not yet been addressed at the time of review.

August 1st Follow Up: Not addressed

August 9th Follow Up: Item addressed prior to tropical event. Appears additional sediment has deposited within the rip rap as a result of tropical event.

-Groundcover needed in the gore area between -Y13- Ramp A, -L-, and -Y13- Loop A. Groundcover was previously pursued, however, minimal coverage or vegetation remain. \*Also noted on previous review.

August 9th Follow Up: Some stabilization pursued. Recommend continued efforts.

-As noted on the July 22nd NPDES Inspection vicinity -Y12- Sta. 13+00: Sediment collected in rock at 30? RCP inlet. Approximately 1/2 CY worth. Slope needs repair, rip rap replaced, and sediment removed. \*Not yet addressed at the time of review.

August 9th Follow Up: Rip rap replaced in the ditch line. Additional material has migrated into the rip rap ditch as a result of tropical event.

As noted above, the project received tropical rainfall on August 7th, 8th, and 9th. The rainfall on August 8th

and 9th exceeded the 1 inch threshold according to MPE data generating the need to complete NPDES Inspections per the NCG01 Permit on August 9th and the following working day after August 9th. It is anticipated that the rainfall caused significant maintenance needs at various areas throughout the project. This review does not serve as the NPDES Inspection. Ensure necessary efforts are dedicated to maintenance generated by recent rainfall in accordance with the Routine and Urgent timeframes in addition to the ongoing Immediate Corrective Action items noted above.

Additional concerns noted on August 9th:

-Earthen dam skimmer 17.2B needs installed at -Y12- per approved design change.

-Per plan ditch line measures needed vicinity -Y13- Sta 44+/- to 48+/- Rt.

\*Please note, additional loss appears to have occurred vicinity -Y7- Sta 14+50+/- Rt but is hard to determine based on high water levels. Additional monitoring and review will be needed.

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



**Project Information**

Inspection Date: 08/19/2024      Evaluator: Aaron Harper  
 Project #: 37673.3.TA3      TIP #: R-2721B      Contract #: C204198  
 Division #: 5      County: Wake  
 Project Type: Turnpike      Engineer: Turnpike Resident  
 Project Length: 4.92      Disturbed Acres:  
 River Basin: Neuse      HQW Zone: NO      Trout Zone: NO  
 Location: NC-540 Triangle Expressway Southeast Extension from East of Pierce Olive Rd to East of US-401  
 Description: (Fayetteville 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
4.92	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:**

\*\*\*This report constitutes lifting of the ICA status on the project. See notes below regarding the items that were reflected on the ICA-Ext 1st report.

I reviewed the items noted on the ICA-Ext 1st report on August 16th will the following:  
 Flatiron-Branch JV: Jon, Vicente, Sam, Raymond  
 RE Office: Donald, Anthony, Caroline

I followed up on August 19th with the following:  
 Flatiron-Branch JV: Sam, Raymond  
 RE Office: Donald

July 23rd Note: \*As noted on the July 22nd NPDES Inspection at Permit Site Number 23, vicinity -Y13- Sta. 65+50 LT: Sediment from raw median washed into pipe system and discharged into the rip rap at the outlet of the 24" RCP. Sediment does not appear to have passed the rip rap, but difficult to determine with CA fence up. Approximately 1/2 CY worth. Sediment needs removed, rip rap refreshed, and erosion control placed in median. \*Urgent item and had not yet been addressed at the time of review.

August 1st Follow Up: \*No change since previous week other than paving along -Y13-. Ditch line measures needed vicinity -Y13- Sta 67+/- to 69+/- Lt, groundcover needed in accordance with the ESA requirements, stabilization needed in the median, and Urgent SDO maintenance.

August 8th Follow Up: Median stabilized. TRSC-As maintained adjacent to the rip rap outfall ditch. TRSC-As not yet installed vicinity -Y13- Sta 67+/- to 69+/- Lt, groundcover not yet pursued in accordance with the ESA requirements.

August 16th Follow Up: Stabilization pursued

July 23rd Note: \*Noted areas beyond the project limits were used for staging associated with noise wall construction vicinity -Y13- Sta 31+/- Lt. Any remaining material beyond the project limits need removed including waste concrete and remaining disturbance dressed and permanent seeded. \*Urgent Item.

August 1st Follow Up: Not addressed.

August 8th Follow Up: Stabilization pursued. However, concrete waste not yet cleaned up. Additional stabilization will be needed following clean up.

August 16th Follow Up: Addressed

July 23rd Note: \*As noted on the July 22nd NPDES vicinity -Y13- Sta. 32+00 LT: Sediment from raw median and shoulder drained through pipe system and into the rip rap at the outlet of the 30" RCP and beyond the project limits. Approximately 1CY worth of material. Sediment needs removed, rip rap refreshed, and erosion control placed in median and shoulder. \*Urgent Item and had not yet been addressed at the time of review.

August 1st Follow Up: New rip rap was installed in the ditch line since previous visit, however, appears rip rap was placed on top of sediment. Need to remove sediment from the rip rap lined ditch and replace rip rap as needed. Sediment retrieval from beyond the DUE has not yet been pursued. Per plan ditch line measures also needed draining to Str 3105. Also need to close the gap in the SF adjacent to the rip rap ditch.

August 8th Follow Up: Some rip rap replaced, additional efforts are needed. Per plan ditch line measures still needed draining to Str 3105.

August 16th Follow Up: TRSC-As installed, need two velocity control measures, wattles or TRSC-Bs. Rip rap has been replaced. Stabilization needed at the retrieval footprint of the ditch line beyond the DUE

August 19th Follow Up: Wattles installed, need stabilization of the retrieval footprint. Contractor provided photo documentation of completed work the day of review.

Sediment loss was reported on July 24th associated with water line break vicinity -Y13- Sta 38+/- Lt. August 1st Follow Up: Some silt fence maintenance and sediment retrieval has been pursued. Sediment retrieval needs to continue to completion, SF correctly maintained and outlets installed, and stabilization pursued at the adjacent disturbed areas.

August 8th Follow up: Outlet installed in the SF. Stabilization not yet pursued, additional retrieval also not yet pursued. Appears the tropical event has caused additional sediment discharge beyond the project limits.

August 16th Follow Up: Retrieval and stabilization pursued. Stabilization needed of the sediment retrieval footprint.

August 19th Follow Up: Stabilization pursued

Rainfall caused sediment loss on July 15th into the apartment parking vicinity -Y13- Sta 34+50+/- Lt.

August 1st Follow Up: Additional discharge of material was noted. The sand bag diversion needs re-installed and SF clean out and maintenance pursued as well as stabilization of the surrounding disturbed areas. \*Urgent Item

August 8th Follow Up: Additional efforts needed to re-establish containment at the end of the SF.

August 16th Follow Up: Berm in place. Moving forward, recommend installing SF and SSCF outlet.

July 23rd Note:\*As noted on the July 15th and July 22nd NPDES Inspections at Permit Site 9, vicinity -Y10A- Sta. 14+00: Sediment from slope washed down into toe protection near 66-inch pipe outlet. Sediment appears to be trapped within Class B stone along toe of slope but not in outlet pad below pipe. Some 57 stone deposited beyond SDO adjacent to wetland and buffer. Slope repair, material reclamation, rip rap cleanout, and Urgent SDO repair needed. \*Urgent item and had not yet been addressed at the time of review.

August 1st Follow Up: Not addressed

August 9th Follow Up: Not addressed

August 16th Follow Up: Toe protection re-worked, washes repaired, SDO maintained. Minor amount of stone and sediment retrieval remains to be completed.

August 19th Follow Up: Retrieval pursued, need to replace excelsior matting with coir fiber matting in the wetland. Contractor provided photo documentation of replacing matting the day following review.

July 23rd Note: \*Vicinity -Y12- Sta 11+50+/- Rt: Per plan containment measures not in place at the time of review at the outlets of the pipes. Note that there is an adjacent wetland to this location. Wetland limits need to be staked and containment measures installed, and disturbance needs dressed and permanently seeded.

\*Urgent Item.

August 1st 2024 Follow Up: SF installed and seeding and matting pursued, however, a ditch was cut that would cause runoff to bypass the SF and no ditch measures were installed. Additionally, no per plan measures were re-installed draining to this location. Additional disturbance has also taken place beyond the R/W and project limits associated with rip rap ditch construction at two locations, vicinity -Y12- Sta 13+50+/- Lt and 12+/- Lt. Impacts beyond the R/W and Easement need dressed and permanently stabilized.

August 9th Follow Up: Containment measures not installed, including around the rip rap ditches, pipe inlet, and outfall ditch measures. Some stabilization has taken place at the offsite impacts but will need to be re-dressed and re-seeded as a result of tropical event.

August 16th Follow Up: Containment measures installed, groundcover pursued on adjacent private property.

July 23rd Note:\*As noted on the July 15th and July 22nd NPDES Inspections at Permit Site 17, vicinity -L- Sta.

437+00 to 439+50 Rt: Sediment from slope rills overtook silt fence and deposited material into the wetland area. Approximately 1 -2 five-gallon bucket worth. Sediment needs retrieved and silt fence repaired.\*Urgent Item and had not been addressed at the time of review.

August 1st Follow Up: Not addressed. Need to clean off and replace SF along majority of toe protection. Fill slope has minimal permanent vegetative cover and washing/rilling throughout.

August 9th Follow Up: Some SF maintenance has taken place. However, SF was not cleaned off prior to replacement. Minimal permanent vegetative cover and rilling on the fill slope not addressed.

August 16th Follow Up: Some SF maintenance has taken place. Need to fully remove accumulated sediment against original SF and replace SF along of toe protection vicinity -L- Sta 437+00 to 439+50 Rt. Repair and stabilize adjacent fill slope as needed.

August 19th Follow Up: Large portion addressed. Continued clean off needed until the elevation on the inside of the SF is the same as the toe protection. Contractor provided photos of completed work the day of review.

\*Urgent Item at -Y10A-: Recent work at the pipe inlet has generated urgent maintenance at the SF and SSCF outlets around the headwall. Also, per plan ditch line measures are needed vicinity -Y10A- Sta 13+50+/- to 15+/- Lt.

August 9th Follow Up: Stabilization pursued on the fill slope. Per plan ditch line measures not installed, SF and Outlets do not appear to have been maintained.

August 16th Follow Up: Ditch measure installation pursued the day of review. SF and SSCF outlet maintenance remains to be completed.

August 19th Follow Up: Need to pursue SF and SSCF outlet clean out and maintenance. Contractor provided photos of completed maintenance the day of review.

-Groundcover needed in accordance with the NCG01 timeframes vicinity -Y13LPA-. \*Also noted on previous review.

August 9th Follow Up: Stabilization not yet pursued.

August 16th Follow Up: Sam indicated this had not yet been stabilized as it was the location would have been used for waste. However, this would no longer happen, therefore, Sam and Raymond indicated CCS would pursue stabilization the Tuesday following review.

-Per plan ditch line measures needed vicinity -Y13- Sta 67+/- to 68+/- Lt.

August 8th Follow Up: Per plan measures not yet installed.

August 16th Follow Up: TRSC-As installed

-Ditch measures should be constructed as TRSC-As per plans vicinity -Y12- Sta 13+50+/- to 18+/- Rt.

August 9th Follow Up: Not addressed.

August 16th Follow Up: Additional TRSC-As installed

-Per plan ditch measures needed vicinity -Y7- Sta 13+/- to 23+/- Lt.

August 9th Follow Up: Not addressed.

August 16th Follow Up: Addressed

-Per plan outlets needed in the SF vicinity -Y7- Sta 16+/- to 18+/- Rt.

August 9th Follow Up: Not addressed

August 16th Follow Up: One additional outlet needed vicinity Sta 18+/- Rt

August 19th Follow Up: Additional SSCF outlet installed in the SF. Continued coordination is needed between the RE office and the DB team regarding drainage field changes that will discharge runoff to a different location than originally shown on the plans. This was discussed in the field with Donald, Sam, and Raymond.

-Per plan ditch measures needed vicinity -Y7- Sta 11+/- to 13+/- Rt.

August 9th Follow Up: Not addressed

August 16th Follow Up: Addressed

-Basin 17.1B needs adjusted/revised to be built as a skimmer per design revision provided by HDR and approved by REU field ops on February 23rd. \*Noted on multiple previous reviews

August 9th Follow Up: Not addressed.

August 16th Follow Up: Not addressed. Skimmer installation began the day of review. Weir should be wrapped with fabric per spec.

August 19th Follow Up: Item addressed

NPDES Record Keeping:

NPDES Inspection records were reviewed for the previous month. The following two concerns were noted:

-Noted "rollover" documented as the date for several items. However, the item was not reflected on

subsequent inspection records. Raymond indicated rollover would no longer be used, but would include date once items are completed.

-Noted a lack of documentation of the items reflected on the ICA reports. Moving forward, efforts need to be made to ensure records accurately reflect maintenance needs on the project.

North Carolina Department of Transportation  
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ICA EX 1st / PCN

Immediate Corrective Action Extension (First Issuance) / Permit Consultation Needed

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). This project does not comply with the permit requirements for the project. Permit consultation is needed to resolve the situation to full compliance.

**Project Information**

Inspection Date: 10/02/2024                      Evaluator: Thomas Smith  
 Project #: 50146.3.1                              TIP #: C-5621                      Contract #:  
 Division #: 10                                      County: Mecklenburg  
 Project Type: Contract                          Engineer: Matthews Resident Eng  
 Project Length: 0.19                              Disturbed Acres: 4  
 River Basin: Catawba                              HQW Zone: NO                      Trout Zone: NO  
 Location Description: Dual Roundabouts North and South of SR-5544 (Catawba Ave) and US 21 Intersection in Cornelius

**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
0.19	The Entire Project	7	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 on site with Traywick (NCDOT), Kelvin (NCDOT), Joe (Caton), Ray (RE), Taylor (ARE), Tray (ARE), and Harrison (ARE) for ICA follow up inspection.

ICA to be extend as we still have several Erosion Control corrective actions that need to be completed.

**Sta. 10+50 Lt- Y1A to 16+50 Lt-Y1A**

- Slope drain breached and slope eroded into rip-rap ditch at toe of slope.
- Repair slope drain and install per Std. 1622.01.
- Install additional slope drains along this section to break up drainage.
- Sta. 17+50 Lt-Y1A
- Stabilize banks at JS above structure 616 with erosion control matting.
- Crews starting to rework rip-rap ditch.
- Install silt fence along rip-rap channel to protect ditch until slope stabilized with ground cover.
- As soon as site conditions allow slopes need to be stabilized with adequate ground cover.

**Permit Site 2A and 2B**

- Headwall structure 616 has been installed.
- Remove sediment from JS above structure 616.
- Stabilize banks at headwall with rip-rap.

- Install rip- rap up wing walls and over top of headwall.
- Install rock checks in v ditch coming ti headwall.
- Install silt fence with SSCF outlet up over headwall.
- Verify drainage system is clean of sediment and debris prior to turning JS into pipe system.
- Also make sure all inlets and unfinished pipe runs to main channel pipe are adequately protected.
- Sediment has been removed from JS below structure 631.

#### Permit Site 3 (No change since ICA)

- Currently Permit Site 3 drains on project and ponds up across project.
- Need to install V ditch and carry JS to 24 inch pipe.
- Complete the Permit work and protect V ditch as the new JS.

#### Overall Comments

- Manage runoff throughout the entire project by installing berms to divert runoff to slope drains, inlets, rock checks etc. runoff bypassing erosion control measures.
- Make sure all EC devices are installed per NCDOT spec. Type C Inlets throughout the project need to have additional T post installed and 57 stone needs to be 1 foot high. Rock Checks need to have a defined weirs.
- As storm drainage structure are installed make sure pipes and boxes are mudded in properly.

#### NPDES

- Note all corrective actions and sediment losses in weekly NPDES report.
- Document sediment removed in each area on the NPDES weekly report.
- Inspect the site weekly and after each 1 inch rainfall event.
- Maintain erosion control measures per weekly inspection.

NOTE: Site will be re-inspected on Oct 9, 2024.

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

ICA / PCN

Immediate Corrective Action / Permit Consultation Needed

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). This project does not comply with the permit requirements for the project. Permit consultation is needed to resolve the situation to full compliance.

**Project Information**

Inspection Date: 09/25/2024                      Evaluator:                      Thomas Smith  
 Project #:                      50146.3.1                      TIP #:                      C-5621                      Contract #:  
 Division #:                      10                      County:                      Mecklenburg  
 Project Type:                      Contract                      Engineer:                      Matthews Resident Eng  
 Project Length:                      0.19                      Disturbed Acres:                      4  
 River Basin:                      Catawba                      HQW Zone:                      NO                      Trout Zone:                      NO  
 Location Description:                      Dual Roundabouts North and South of SR-5544 (Catawba Ave) and US 21 Intersection in Cornelius

**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
0.19	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

**ICA / PCN Comments:**

Division PDEA and DEO need to advise Contractor on clean up in JS at Permit Site 2B.

**Remarks and Recommendations:**

Met on site with Traywick (NCDOT), Kelvin (NCDOT), and Joe (Caton) to review sediment losses at Permit Sites 1, 2A, and 2B.

Project rainfall last night was 1.5 inches.

**Permit Site 1**

-Sediment noted in 24 inch pipe coming from offsite. Adjacent property has several sink holes in back yard and sediment washing into 24 inch pipe then flowing through our Permit Site 1. Please note this in the weekly NPDES and document with pictures as this sediment is not due to our project.

-Repair silt fence at Y7 left side above drop inlet and 42 inch pipe outlet. (Apartment reinstalled sprinkler and tore down silt fence.)

-Install Type A Rock Dam in draw above str. 517 near stockpile material.

**Sta. 10+50 Lt- Y1A to 16+50 Lt-Y1A**

-Slope drain breached and slope eroded into rip-rap ditch at toe of slope.

-Repair slope drain and install per Std. 1622.01.

-Recommend installing additional slope drains along this section to break up the drainage and not overwhelm

the one slope drain.

- Install rock checks in rip-rap ditch line per erosion control plan. (Discussed on site utilize rock checks in rip-rap ditch until ditch line can be reworked and slope stabilized.)
  - Remove accumulated sediment below rip-rap ditch sta. 16+50 Lt-Y1A to sta. 17+50 Lt-Y1A.
  - Install Rock Checks below rip-rap ditch per erosion control plan sta. 16+50 Lt-Y1A to sta. 17+50 Lt-Y1A.
  - Sta. 17+50 Lt-Y1A
- Install silt fence with outlet at top of bank above structure 616 per discussions on site.
- As soon as site conditions allow slopes need to be stabilized with adequate ground cover.

#### Permit Site 2A and 2B

- Pipe system complete and crews trying to block off pipe with fabric and maintain impervious dike with pump.
- Need to install Headwall structure 616. Headwall is on site. If cannot install headwall then need to divert JS into pipe system utilizing fabric lined channel. Put JS into pipe system so you do not have to try to bypass pump during rainfall events. (WHEN contractor does come back to install headwall this will have to be done in the dry.)
- Verify drainage system is clean of sediment and debris prior to turning JS into pipe system.
- Also make sure all inlets and unfinished pipe runs to main channel pipe are adequately protected.
- Remove sediment from JS below structure 0631. (Division PDEA and DEO to review site tomorrow for clean up in JS.)

#### Permit Site 3

- Currently Permit Site 3 drains on project and ponds up across project.
- Need to install V ditch and carry JS to 24 inch pipe.
- Complete the Permit work and protect V ditch as the new JS.

#### Overall Comments

- Manage runoff throughout the entire project by installing berms to divert runoff to slope drains, inlets, rock checks etc. runoff bypassing erosion control measures.
- Make sure all EC devices are installed per NCDOT spec. Type C Inlets throughout the project need to have additional T post installed and 57 stone needs to be 1 foot high. Rock Checks need to have a defined weirs.
- Structures 637 and 630 need additional t post and stone installed correctly so inlet protection will function.
- Install inlet protection to structures 609 and 608.

#### NPDES

- Note all corrective actions and sediment losses in weekly NPDES report.
- Document sediment removed in each area on the NPDES weekly report.
- Inspect the site weekly and after each 1 inch rainfall event.
- Maintain erosion control measures per weekly inspection.

NOTE: Site will be re-inspected on Oct 2, 2024.

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



## Project Information

Inspection Date: 10/09/2024                      Evaluator: Thomas Smith  
 Project #: 50146.3.1                              TIP #: C-5621                      Contract #:  
 Division #: 10                                      County: Mecklenburg  
 Project Type: Contract                          Engineer: Matthews Resident Eng  
 Project Length: 0.19                              Disturbed Acres: 4  
 River Basin: Catawba                              HQW Zone: NO                      Trout Zone: NO  
 Location Description: Dual Roundabouts North and South of SR-5544 (Catawba Ave) and US 21 Intersection in Cornelius

## 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
0.19	The Entire Project	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:

Met on site with Traywick (NCDOT) and Taylor (ARE) for ICA follow up inspection.

#### Sta. 10+50 Lt- Y1A to 16+50 Lt-Y1A

- Slope drains have been installed per last site visit.
- Rip-rap ditch has been reworked and protected with silt fence per last site visit.
- Slopes have been temp seeded and mulched.

#### Permit Site 2A and 2B

- Headwall complete and banks at headwall stabilized with rip-rap.
- Sediment has been removed from JS above headwall.
- Badger is on site cleaning out storm drainage system.

#### Permit Site 3 (Crews finishing up ditch work.)

- Crews are grading V ditch on site at this time.
- Once V ditch stabilized with rip-rap make sure to install silt fence along both sides of ditch.
- Also install safety fence along V ditch as this is the new JS.

#### NPDES

- Continue to inspect the site weekly and after each 1 inch rainfall event.
- Maintain erosion control measures per weekly inspection.

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

ICA / PCN

Immediate Corrective Action / Permit Consultation Needed

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). This project does not comply with the permit requirements for the project. Permit consultation is needed to resolve the situation to full compliance.

**Project Information**

Inspection Date: 08/21/2024      Evaluator: Lee Sheppard  
 Project #: Bridge #361 on SR 1485      TIP #:      Contract #:  
 Division #: 14      County: Macon  
 Project Type: Bridge Maintenance      Engineer: Macon/Clay Bridge  
 Project Length: 0.05      Disturbed Acres: 0.25  
 River Basin: Little Tennessee      HQW Zone: NO      Trout Zone: NO  
 Location Description: Bridge #361 Replacement over Iotla Creek on SR 1485 (Willow Pond 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
	The Entire Project	6	--	--	6	6

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

**ICA / PCN Comments:**

A PCN is being issued due to ground disturbing construction adjacent to and in jurisdictional features without permitting and due to the lack of NPDES implementation. Temporary fill material consisting of bare soil and rock has been placed in the stream as a diversion. Sediment is in contact with live water.

An ICA is being issued due to the lack of Best Management Practices being implemented.

**Remarks and Recommendations:**

No one was working during the time of inspection.

Bridge replacement is underway with some of the existing structure removed. Ground disturbance is present without installation of any EC devices for controlling runoff. Excavated material from structure excavation consisting of soil and rock has been piled up along the edge of the creek and in contact with live water.

Division Environmental is unaware of any permitting that was obtained for this project. Consult with them at this point for needed permitting moving forward on this project.

There is not an EC plan for the project at this time. NPDES recordkeeping and inspections are not being done. It is unclear when construction on the project began.

IMMEDIATE CORRECTIVE ACTIONS NEEDED:

- Remove enough of the material that is encroached into the creek to install temporary silt fence on both side of creek for containing all disturbed area. At least one outlet is needed on each run of silt fence in the low points. Utilize special sediment control fence w/ stone for the outlet- refer to Standard Drawing 1606.01.
- Apply temporary ground cover to all areas disturbed. This could include straw mulching, plastic covering, coir matting, etc.
- Begin NPDES inspections and recordkeeping.
- Begin generating and EC plan for the project.

A follow up review will be conducted within 5 working days.

