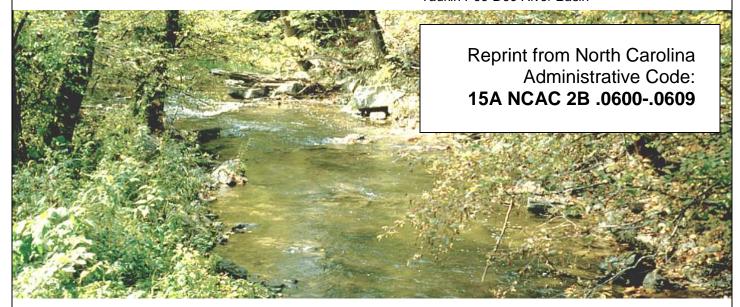


#### STATE OF NORTH CAROLINA DEPARTMENT OF ENVIRONMENT & NATURAL RESOURCES

Site Specific Water Quality Management Plan for the

#### **Goose Creek Watershed**

Yadkin Pee-Dee River Basin



Last Amended: February 1, 2009



http://h2o.enr.state.nc.us/csu/GooseCreek.html



#### SECTION .0600 - WATER QUALITY MANAGEMENT PLANS

#### 15A NCAC 02B .0601 SITE SPECIFIC WATER QUALITY MANAGEMENT PLAN FOR THE GOOSE CREEK WATERSHED (YADKIN PEE-DEE RIVER BASIN): PURPOSE

The Goose Creek watershed in the Yadkin Pee-Dee River Basin provides habitat for an aquatic animal species that is listed as federally endangered by the U.S. Fish and Wildlife Service under the provisions of the Endangered Species Act, 16 U.S.C. 1531-1544. Maintenance and recovery of the water quality conditions required to sustain and recover the federally-listed endangered species thereby protects the biological integrity of the waters. The Goose Creek watershed, which includes Goose Creek (Index # 13-17-18), Stevens Creek (Index # 13-17-18-1), Paddle Branch (Index # 13-17-18-2), Duck Creek (Index # 13-17-18-3) and all tributaries, shall be protected by the site-specific management strategy described in Rules .0601 through .0609 of this Section.

The purpose of the actions required by this site-specific management strategy is for the maintenance and recovery of the water quality conditions required to sustain and recover the federally endangered Carolina heelsplitter (Lasmigona decorata) species. Management of the streamside zones to stabilize streambanks and prevent sedimentation are critical measures to restore water quality to sustain and enable recovery of the federally endangered Carolina heelsplitter. Site-specific management strategies shall be implemented to:

- (1) control stormwater for projects disturbing one acre or more of land as described in Rule .0602,
- (2) control wastewater discharges as described in Rule .0603,
- (3) control toxicity to streams supporting the Carolina heelsplitter as described in Rule .0604, and
- (4) maintain riparian buffers as described in Rules .0605 through .0609.

History Note: Authority G.S. 143-214.1; 143-215.3(a)(1); 143-215.8A;

Eff. January 1, 2009.

## 15A NCAC 02B .0602 SITE SPECIFIC WATER QUALITY MANAGEMENT PLAN FOR THE GOOSE CREEK WATERSHED (YADKIN PEE-DEE RIVER BASIN): STORMWATER CONTROL REQUIREMENTS

- (a) Any new development activity that disturbs one acre or more of land within the Goose Creek watershed and will result in addition of impervious surface shall control and treat the difference in the stormwater runoff from the predevelopment and post-development conditions for the one-year, 24-hour storm, with structural stormwater controls, with the exception of NC Department of Transportation and NC Turnpike Authority activities that shall be regulated in accordance with provisions of that agency's NPDES Stormwater Permit. Development and redevelopment shall implement stormwater management measures that promote infiltration of flows and groundwater recharge for the purpose of maintaining stream base flow or the delegated local government shall maintain a written explanation when it is not practical to use infiltration methods.
- (b) Structural stormwater controls shall meet the following requirements:
  - (1) Remove an 85 percent average annual amount of Total Suspended Solids;
  - (2) Draw down the treatment volume no faster than 48 hours, but no slower than 120 hours, for detention ponds;
  - (3) Discharge the storage volume at a rate equal or less than the pre-development discharge rate for the one-year, 24-hour storm; and
  - (4) Meet Design of Stormwater Management Measures set forth in 15A NCAC 02H .1008.
- (c) Local governments may submit a written request to the Commission for authority to implement and enforce the state's stormwater protection requirements of G.S. 143-214.7 and S.L. 2006-246 within their jurisdiction. The written request shall be accompanied by information that shows:
  - (1) The local government has land use jurisdiction for the riparian buffer demonstrated by delineating the local land use jurisdictional boundary on USGS 1:24,000 topographical map(s) or other finer scale map(s);
  - (2) The local government has the administrative organization, staff, legal authority, financial and other resources necessary to implement and enforce the state's stormwater requirements based on its size and projected amount of development;
  - (3) The local government has adopted ordinances, resolutions, or regulations necessary to establish and maintain the state's stormwater requirements; and
  - (4) The local government has provided a plan to address violations with civil or criminal remedies and actions as well as remedies that shall restore buffer functions on violation sites and provide a deterrent against the occurrence of future violations.
- (d) Within 90 days after the Commission has received the request for delegation, the Commission shall notify the local government based on standards as set out in Paragraph (c) of this Rule whether it has been approved, approved with modifications, or denied.
- (e) The Commission, upon determination that a delegated local authority is failing to implement or enforce the requirements in keeping with a delegation, shall notify the delegated local authority in writing of the local program's inadequacies. If the delegated local authority has not corrected the deficiencies within 90 days of receipt of the written notification, then the Commission shall rescind the delegation of authority to the local government and shall implement and enforce the state's stormwater requirements.
- (f) Limits of delegated local authority are as follows: The Commission shall have jurisdiction to the exclusion of local governments to implement the state's stormwater protection requirements for the following types of activities:
  - (1) Activities undertaken by the State;
  - (2) Activities undertaken by the United States;
  - (3) Activities undertaken by multiple jurisdictions; and
  - (4) Activities undertaken by local units of government.
- (g) Recordkeeping requirements are as follows: Delegated local authorities shall maintain on-site records for a minimum of five years. Delegated local authorities must furnish a copy of these records to the Director within 30 days of receipt of a written request for the records. The Division of Water Quality shall inspect local stormwater programs to ensure that the programs are being implemented and enforced in keeping with an approved delegation.

History Note: Authority G.S. 143-214.1; 143-215.3(a)(1); 143-215.8A;143-214.7, S.L. 2006-246; Eff. February 1, 2009.

# 15A NCAC 02B .0603 SITE SPECIFIC WATER QUALITY MANAGEMENT PLAN FOR THE GOOSE CREEK WATERSHED (YADKIN PEE-DEE RIVER BASIN): WASTEWATER CONTROL REQUIREMENTS

No new National Pollution Discharge Elimination System "NPDES" wastewater discharges or expansions to existing discharges shall be permitted.

History Note: Authority G.S. 143-214.1; 143-215.3(a)(1); 143-215.8A;

Eff. January 1, 2009.

## 15A NCAC 02B .0604 SITE SPECIFIC WATER QUALITY MANAGEMENT PLAN FOR THE GOOSE CREEK WATERSHED (YADKIN PEE-DEE RIVER BASIN): CONTROL TOXICITY INCLUDING AMMONIA

No activity that results in direct or indirect discharge is allowed if it causes toxicity to the Carolina heelsplitter (*Lasmigona decorata*) endangered mussel. For any direct or indirect discharge that may cause ammonia toxicity to the Carolina heelsplitter freshwater mussel, action shall be taken to reduce ammonia (NH<sub>3</sub>-N) inputs to achieve 0.5 milligrams per liter or less of total ammonia based on chronic toxicity defined in 15A NCAC 02B .0202. This level of total ammonia is based on ambient water temperature equal to or greater than 25 degrees Celsius.

History Note: Authority G.S. 143-214.1; 143-215.3(a)(1); 143-215.8A;

Eff. February 1, 2009.

#### 15A NCAC 02B .0605 SITE SPECIFIC WATER QUALITY MANAGEMENT PLAN FOR THE GOOSE CREEK WATERSHED (YADKIN PEE-DEE RIVER BASIN); RIPARIAN BUFFER WIDTHS

In this watershed, undisturbed riparian buffers are required within 200 feet of waterbodies within the 100-Year Floodplain and within 100 feet of waterbodies that are not within the 100-Year Floodplain. The 100-Year Floodplain is the one percent Annual Chance Floodplain as delineated by the North Carolina Floodplain Mapping Program in the Division of Emergency Management. Within the buffer areas that are regulated by this Rule, redevelopment is allowed for residential structures and redevelopment of non-residential structures is allowed provided that less than an additional half acre is disturbed during the redevelopment activity for non-residential structures. Redevelopment is defined in 15A NCAC 02H .1002(14). Exceptions to undisturbed forested riparian buffer requirements are set forth in Rule .0607 of this Section. Activities shall require stormwater control as required by Rule .0602 of this Section.

History Note: Authority G.S. 143-214.1; 143-215.3(a)(1); 143-215.8A;

Eff. January 1, 2009.

## 15A NCAC 02B .0606 SITE SPECIFIC WATER QUALITY MANAGEMENT PLAN FOR THE GOOSE CREEK WATERSHED (YADKIN PEE-DEE RIVER BASIN): VARIANCE FOR ACTIVITIES WITHIN RIPARIAN BUFFERS

Persons who wish to undertake uses designated as prohibited within the protected riparian buffer area may pursue a variance. Persons who wish to undertake forest harvesting beyond the requirements set forth in 15A NCAC 02B .0608 may pursue a variance. The variance request procedure shall be as follows:

- (1) For any variance request, the Division of Water Quality shall make a finding of fact as to whether the following requirements have been met:
  - (a) There are practical difficulties or unnecessary hardships that prevent compliance with the strict letter of the riparian buffer protection requirements. Practical difficulties or unnecessary hardships shall be evaluated in accordance with the following:
    - (i) If the applicant complies with the provisions of the buffer requirements, he/she can secure no reasonable return from, nor make reasonable use of, his/her property. Merely proving that the variance would permit a greater profit from the property is not adequate justification for a variance. Moreover, the Division of Water Quality shall consider whether the variance is the minimum possible deviation from the terms of the buffer requirements that will make reasonable use of the property possible.
    - (ii) The hardship results from application of the buffer requirements to the property rather than from other factors such as deed restrictions or other hardship.
    - (iii) The hardship is due to the physical nature of the applicant's property and is unique to the applicant's property, such as its size, shape, or topography, such that compliance with provision of this Rule would not allow reasonable use of the property.
    - (iv) The applicant did not cause the hardship by knowingly or unknowingly violating the buffer requirements.
    - (v) The applicant did not purchase the property after the effective date of this Rule, and then request a variance.
  - (b) The variance is in harmony with the general purpose and intent of the State's riparian buffer protection requirements and preserves its spirit; and
  - (c) In granting the variance, the public safety and welfare have been assured, water quality has been protected, and substantial justice has been done.
- (2) A variance request pertains to any activity that is proposed to impact any portion of the riparian buffer. If the Division of Water Quality has determined that a major variance request meets the requirements in Item (1) of this Rule, then it shall prepare a preliminary finding and submit it to the Environmental Management Commission. Preliminary findings on variance requests shall be reviewed by the Commission within 90 days after receipt by the Director. Requests for appeals of determinations that the requirements of Item (1) of this Rule have not been met shall be made to the Office of Administrative Hearings for determinations made by the Division of Water Quality or the appropriate Board of Adjustments under G.S. 160A-388 or G.S. 153A-345 for determinations made by the delegated local authority. The purpose of the Commission's review is to determine if it agrees that the requirements in Item (1) of this Rule have been met. Requests for appeals of decisions made by the Commission shall be made to the Office of Administrative Hearings. The following actions shall be taken depending on the Commission's decision on the major variance request:
  - (a) Upon the Commission's approval, the Division of Water Quality shall issue a final decision granting the variance.
  - (b) Upon the Commission's approval with conditions or stipulations, the Division of Water Quality shall issue a final decision, which includes these conditions or stipulations.
  - (c) Upon the Commission's denial, the Division of Water Quality shall issue a final decision denying the variance.

History Note: Authority G.S. 143-214.1; 143-215.3(a)(1); 143-215.8A; Eff. February 1, 2009.

## 15A NCAC 02B .0607 SITE SPECIFIC WATER QUALITY MANAGEMENT PLAN FOR THE GOOSE CREEK WATERSHED (YADKIN PEE-DEE RIVER BASIN): BUFFER TYPES AND MANAGING ACTIVITIES WITHIN RIPARIAN BUFFERS

- (a) RIPARIAN BUFFER. The protected riparian buffer shall consist of an area that is undisturbed except for uses provided for in the table in this Rule. A waterbody shall be considered to be present if the feature is shown as described in the applicability paragraph of 15A NCAC 02B .0233 (3) and 02B .0233(3)(a)(i)-(iii). The location of the riparian buffer shall be as follows:
  - (1) For streams, the riparian buffer shall begin at the most landward limit of the top of bank or the rooted herbaceous vegetation and extend landward on all sides of the surface water, measured horizontally on a line perpendicular to the surface water.
  - (2) For ponds, lakes and reservoirs located within a natural drainage way, the riparian buffer shall begin at the most landward limit of the normal water level or the rooted herbaceous vegetation and extend landward, measured horizontally on a line perpendicular to the surface water.
- (b) EXEMPTION WHEN USES ARE PRESENT AND ONGOING. The buffer requirements in this Rule do not apply to portions of the riparian buffer where a use is existing and ongoing. Only the portion of the riparian buffer that contains the footprint of the existing and ongoing use is exempt. The determination of whether a use is existing and ongoing shall be made by the Division of Water Quality. A use is existing and ongoing when it is a completed and maintained activity, an activity with appropriate valid permits, or an activity with documentation for unexpired vested rights, as described below:
  - A use that was present within the riparian buffer as of the effective date of this Rule and has continued since that time. Existing uses shall include agriculture, buildings, industrial facilities, commercial areas, transportation facilities, maintained lawns, utility lines and on-site sanitary sewage systems. Change of ownership through purchase or inheritance is not a change of use. Activities necessary to maintain uses are allowed provided that the site remains similarly vegetated, no impervious surface is added within the buffer area where it did not exist as of the effective date of this Rule and existing diffuse flow is maintained.
  - (2) A use that can be documented to the Division of Water Quality that meets at least one of the following criteria:
    - (A) Project requires a 401 Certification/404 Permit, issued prior to the effective date of this Rule and are still valid:
    - (B) Project requires a state permit, such as a landfill, NPDES wastewater discharge, land application residuals and road construction activities, and has begun construction or is under contract to begin construction and has received all required state permits prior to the effective date of this Rule;
    - (C) Project is being reviewed through the Clean Water Act Section 404/National Environmental Policy Act Merger 01 Process or Safe Accountable Flexible Efficient Transportation Equity Act; a Legacy for Users (published by the US Army Corps of Engineers and Federal Highway Administration, 2003) or its immediate successor and that have reached agreement with Department of Environment and Natural Resources on avoidance and minimization by the effective date of this Rule; or
    - (D) Project is not required to be reviewed by the Clean Water Act Section 404/National Environmental Policy Act Merger 01 Process or Safe Accountable Flexible Efficient Transportation Equity Act; a Legacy for Users (published by the US Army Corps of Engineers and Federal Highway Administration, 2003) or its immediate successor if a Finding of No Significant Impact has been issued for the project and the project has the written approval of the Division of Water Quality prior to the effective date of this Rule.
  - (3) At the time an existing use is changed to another use, the buffer requirement of this Rule shall apply. Change of use includes the following:
    - (A) To add impervious surface within the riparian buffer;
    - (B) An agricultural operation within the riparian buffer is converted to a non-agricultural; or
    - (C) a lawn within the riparian buffer ceases to be maintained.
- (c) DIFFUSE FLOW REQUIREMENT. Diffuse flow of runoff shall be maintained in the riparian buffer by dispersing concentrated flow and reestablishing vegetation, as follows:
  - (1) Concentrated runoff from new ditches or manmade conveyances shall be converted to diffuse flow before the runoff enters the riparian buffer; and
  - (2) Periodic corrective action to restore diffuse flow shall be taken if necessary to impede the formation of erosion gullies.
- (d) REQUIREMENTS FOR CATEGORIES OF USES AND MITIGATION. Uses designated as exempt, potentially allowable, and prohibited location in the chart of uses in this Rule shall have the following requirements:
  - (1) EXEMPT. Uses designated as exempt are allowed within the riparian buffer. Exempt uses shall be designed, constructed and maintained to minimize soil disturbance and to provide the maximum water quality protection practicable. In addition, exempt uses shall meet requirements listed in the table of this Rule for the specific use.
  - (2) POTENTIALLY ALLOWABLE. Uses designated as potentially allowable may proceed within the riparian buffer provided that there are no practical alternatives to the requested use pursuant to this Rule. These uses require written authorization from the Division of Water Quality. Some of these uses require mitigation, as indicated in the chart in this Rule.

- (3) PROHIBITED. Uses designated as prohibited or not included in this table may not proceed within the riparian buffer unless a variance is granted pursuant to Rule .0606. Site-specific mitigation may be required as one condition of a variance approval.
- (4) MITIGATION. Persons who wish to undertake uses designated as allowable with mitigation shall obtain approval for a mitigation proposal pursuant to 15A NCAC 02B .0609.
- (e) DETERMINATION OF "NO PRACTICAL ALTERNATIVES." Persons who wish to undertake uses designated as potentially allowable shall submit a request for a "no practical alternatives" determination to the Division of Water Quality. The applicant shall certify that the criteria identified in Subparagraph (e)(1) of this Rule are met. The Division shall grant an Authorization Certificate upon a "no practical alternatives" determination. The procedure for making an Authorization Certificate shall be as follows:
  - (1) For any request for an Authorization Certificate, the Division shall review the entire project and make a finding of fact as to whether the following requirements have been met in support of a "no practical alternatives" determination:
    - (A) The basic project purpose cannot be practically accomplished in a manner that would better minimize disturbance, preserve aquatic life and habitat, and protect water quality.
    - (B) The use cannot practically be reduced in size or density, reconfigured or redesigned to better minimize disturbance, preserve aquatic life and habitat, and protect water quality.
    - (C) Plans for practices shall be used if necessary to minimize disturbance, preserve aquatic life and habitat, and protect water quality.
    - (D) The Division of Water Quality must consider the impacts that may affect conditions required to sustain and recover the federally endangered Carolin heelsplitter (*Lasmigona decorata*).
  - (2) Requests for an Authorization Certificate shall be either approved or denied within 60 days of receipt of a complete submission based on the criteria in Subparagraph (e)(1) of this Rule by the Division. Failure to issue an approval or denial within 60 days shall constitute that the applicant has demonstrated "no practical alternatives." The Division of Water Quality may attach conditions to the Authorization Certificate that support the purpose, spirit and intent of the riparian buffer protection program. Complete submissions shall include the following:
    - (A) The name, address and phone number of the applicant;
    - (B) The nature of the activity to be conducted by the applicant;
    - (C) The location of the activity, including the jurisdiction;
    - (D) A map of sufficient detail to accurately delineate the boundaries of the land to be utilized in carrying out the activity, the location and dimensions of any disturbance in riparian buffers associated with the activity, and the extent of riparian buffers on the land;
    - (E) An explanation of why this plan for the activity cannot be practically accomplished, reduced or reconfigured to better minimize disturbance to the riparian buffer, preserve aquatic life and habitat and protect water quality; and
    - (F) Plans for any practices proposed to be used to control the impacts associated with the activity.
  - (3) Any disputes over determinations regarding Authorization Certificates shall be referred to the Director for a decision. The Director's decision is subject to review as provided in Articles 3 and 4 of G.S. 150B.
- (f) DELEGATION OF AUTHORITY FOR THE PROTECTION AND MAINTENANCE OF EXISTING RIPARIAN BUFFERS. The Commission shall grant and rescind local government delegation of the Riparian Buffer Protection requirements according to the following procedures:
  - (1) Local governments within the Goose Creek Watershed may submit a written request to the Commission for authority to implement and enforce the State's riparian buffer protection requirements within their jurisdiction. The written request shall be accompanied by information that shows:
    - (A) The local government has land use jurisdiction for the riparian buffer demonstrated by delineating the local land use jurisdictional boundary on USGS 1:24,000 topographical map(s) or other finer scale map(s);
    - (B) The local government has the administrative organization, staff, legal authority, financial and other resources necessary to implement and enforce the State's riparian buffer protection requirements based on its size and projected amount of development;
    - (C) The local government has adopted ordinances, resolutions, or regulations necessary to establish and maintain the State's riparian buffer protection requirements; and
    - (D) The local government has provided a plan to address violations with civil or criminal remedies and actions as well as remedies that shall restore buffer functions on violation sites and provide a deterrent against the occurrence of future violations.
  - (2) Within 90 days after the Commission has received the request for delegation, the Commission shall approve the request if the local government has complied with all of Subparagraph (f)(1) of this Rule and notify the local government whether it has been approved, approved with modifications, or denied.
  - (3) The Commission, upon determination that a delegated local authority is failing to implement or enforce the riparian buffer protection requirements in keeping with an approved delegation, shall notify the delegated local authority in writing of the local program's inadequacies. If the delegated local authority has not corrected the deficiencies within 90 days of receipt of the written notification, then the Commission shall rescind the delegation of authority to the local government and shall implement and enforce the State's riparian buffer protection requirements.

- (g) APPOINTMENT OF A RIPARIAN BUFFER PROTECTION ADMINISTRATOR. Upon receiving delegation, local governments shall appoint a Riparian Buffer Protection Administrator who shall coordinate the implementation and enforcement of the program. The Administrator shall attend an initial training session by the Division of Water Quality and subsequent annual training sessions. The Administrator shall ensure that local government staffs working directly with the program receive training to understand, implement and enforce the program.
- (h) PROCEDURES FOR USES WITHIN RIPARIAN BUFFERS THAT ARE ALLOWABLE AND ALLOWABLE WITH MITIGATION.
  - (1) Upon receiving delegation, local authorities shall review proposed uses within the riparian buffer and issue approvals if the uses meet the riparian buffer protection requirements.
  - (2) Delegated local authorities shall issue an Authorization Certificate for uses if the proposed use meets the requirements including provisions for mitigation set forth in Rule .0609.
  - (3) The Division of Water Quality may challenge a decision made by a delegated local authority for a period of 30 days after the Authorization Certificate is issued. If the Division of Water Quality does not challenge an Authorization Certificate within 30 days of issuance, then the delegated local authority's decision shall stand.
- (i) VARIANCES. After receiving delegation, local governments shall review variance requests and make recommendations to the Commission for approval.
- (j) LIMITS OF DELEGATED LOCAL AUTHORITY. The Commission has jurisdiction to the exclusion of local governments to implement the requirements of this Rule for the following types of activities:
  - (1) Activities undertaken by the State;
  - (2) Activities undertaken by the United States;
  - (3) Activities undertaken by multiple jurisdictions; and
  - (4) Activities undertaken by local units of government.
- (k) RECORD-KEEPING REQUIREMENTS. Delegated local authorities shall maintain on-site records for a minimum of five years. Delegated local authorities must furnish a copy of these records to the Director within 30 days of receipt of a written request for the records. The Division of the Water Quality shall inspect local riparian buffer protection programs to ensure that the programs are being implemented and enforced. Each delegated local authority's records shall include the following:
  - A copy of variance requests;
  - (2) The variance request's finding of fact;
  - (3) The result of the variance proceedings;
  - (4) A record of complaints and action taken as a result of the complaint;
  - (5) Records for stream origin calls and stream ratings; and
  - (6) Copies of request for authorization, records approving authorization and Authorization Certificates.
- (1) Riparian buffers along surface waters in this watershed shall be maintained. Some uses within riparian buffers are exempt and some uses are potentially allowable. Any exempt or potentially allowed use shall require stormwater control as outlined in Rule .0602 if the one acre threshold is met. The following chart sets out the uses and their designation under this Rule as exempt, potentially allowable requiring DWQ approval or potentially allowable requiring both DWQ approval and mitigation, or prohibited as described above. The United States Environmental Protection Agency Endangered Species Protection Program at www.epa.gov/espp and NC Pesticide Board regulates pesticide application (see rules at 02 NCAC 09L .2201 through .2203).

	Exempt	Potentially allowable requiring DWQ approval or Potentially allowable requiring both DWQ approval and mitigation* Note: the asterisk (X*)Prohibited identifies those uses that require both DWQ approval and mitigation.	1
Airport facilities that impact equal to or less than 150 linear feet			
or one-third of an acre of riparian buffer		X	
Airport facilities that impact greater than 150 linear feet or one-		X*	
third of an acre of riparian buffer			
Archaeological activities	X		
Bridges		X	
Dam maintenance activities	X		
Drainage ditches, roadside ditches and stormwater outfalls			

through riparian buffers:			
Existing drainage ditches, roadside ditches, and	X		
stormwater outfalls provided that they are managed	71		
to minimize the sediment, nutrients including			
ammonia and other pollution that convey to			
waterbodies			
New drainage ditches, roadside ditches and		X	
stormwater outfalls provided that a stormwater		Λ	
management facility is installed to minimize the			
sediment, nutrients including ammonia and other			
pollution and attenuate flow before the conveyance			
discharges through the riparian buffer			<del>-</del>
<ul> <li>New drainage ditches, roadside ditches and</li> </ul>			X
stormwater outfalls that do not minimize the			
sediment, nutrients including ammonia and other			
pollution and attenuate flow before discharging			
through the riparian buffer			
<ul> <li>Excavation of the streambed in order to bring it to the</li> </ul>			X
same elevation as the invert of a ditch			
Drainage of a pond in a natural drainage way provided that a	X		
new riparian buffer that meets the diffuse flow requirements of			
this Rule is established adjacent to the new channel			
and react to established adjustments to the first terminal			
Drivowey erossings of streems and other surface waters subject			
Driveway crossings of streams and other surface waters subject to this Rule:			
	X		
Driveway crossings on single family residential lots			
that disturb equal to or less than 25 linear feet in width			
and are perpendicular <sup>3</sup>		37	
Driveway crossings on single family residential lots		X	
that disturb greater than 25 linear feet in width and are			
perpendicular <sup>3</sup>			
<ul> <li>In a subdivision that cumulatively disturbs equal to or</li> </ul>		X	
less than 150 linear feet in width and are perpendicular			
<ul> <li>In a subdivision that cumulatively disturbs greater than</li> </ul>		X*	
150 linear feet in width and are perpendicular			
Fences provided that disturbance is minimized and installation	X		
does not result in removal of forest vegetation			
Forest harvesting – see Rule .0608			
Fertilizer application:			
<ul> <li>One-time fertilizer application at agronomic rates to</li> </ul>	X		
establish replanted vegetation			
Ongoing fertilizer application			X
Greenway/hiking trails		X	
Historic preservation	X		
Landfills as defined by G.S. 130A-290			X
Mining activities:			
Mining activities that are covered by the Mining Act		X	
provided that new riparian buffers that meet the diffuse			
flow requirements of this Rule are established adjacent			
to the relocated channels			
Mining activities that are not covered by the Mining			X
Act OR where new riparian buffers that meet the			
diffuse flow requirements of this Rule are not			
established adjacent to the relocated channels			
Wastewater or mining dewatering wells with approved			
NPDES permit		X*	
Non-electric utility lines with impacts other than perpendicular		71	
crossings <sup>3</sup>			
Crossings			

<ul> <li>If activity is within 50 feet of the stream</li> </ul>		X*	
• If activity is outside of the inner 50 feet nearest the		X	
stream			
Wastewater collection system utility lines and lift		X*	
station lines may impact the riparian zone if both			
gravity and force main collections systems are made of			
ductile iron and 50% of the collection system is			
cleaned annually.			
Lift Stations require Supervisory Control and Data		X*	
Acquisition System (SCADA), telemetry, audio and			
visual alarms, signage with emergency contact, daily			
visitation (365 days/year), and documentation must be			
maintained for 3 years of all of the above and available			
upon request [note: this requirement also applies to			
collection system perpendicular crossings, detailed			
below.]			
Non-electric utility line perpendicular crossing of streams and			
other surface waters subject to this Rule that are not collection			
systems <sup>3</sup> :			
1 *	v		
Perpendicular crossings that disturb equal to or less	X		
than 40 linear feet of riparian buffer with a			
maintenance corridor equal to or less than 10 feet in			
width			
<ul> <li>Perpendicular crossings that disturb equal to or less</li> </ul>		X	
than 40 linear feet of riparian buffer with a			
maintenance corridor greater than 10 feet in width			
		X	
Perpendicular crossings that disturb greater than 40      The first that the state of the s		71	
linear feet but equal to or less than 150 linear feet of			
riparian buffer with a maintenance corridor equal to or			
less than 10 feet in width			
• Perpendicular crossings that disturb greater than 40		X*	
linear feet but equal to or less than 150 linear feet of			
riparian buffer with a maintenance corridor greater than			
10 feet in width			
Perpendicular crossings that disturb greater than 150		X*	
•			
linear feet of riparian buffer			
Non-electric perpendicular utility line crossings that are			
collections systems as defined in Rule 15A NCAC 02T .0300			
(note: must follow constraints listed under wastewater collection			
system utility lines and lift stations, above):			
That use any of the following installation methods to			
minimize the sediment, nutrient and other pollution		X	
through the riparian buffer: underground directional			
boring methods, bore-and-jack techniques or another			
appropriate microtunnelling method.			X
That does not minimize the sediment, nutrient and			71
other pollution through the riparian buffer by the most			
appropriate exempt method.			
			**
On-site sanitary sewage systems - new ones that use ground			X
absorption			
Overhead electric utility lines <sup>1,2,3</sup> :			
• Stream crossings that disturb equal to or less than 150	X		
linear feet of riparian buffer			
Stream crossings that disturb greater than 150 linear		X*	
feet of riparian buffer			
Periodic maintenance of modified natural streams such as canals		X	
and a grassed travelway on one side of the surface water when		Λ	
alternative forms of maintenance access are not practical.			

E			1
Playground equipment:			
Playground equipment on single family lots provided	X		
that installation and use does not result in removal of			
vegetation			
<ul> <li>Playground equipment installed on lands other than</li> </ul>		X	
single-family lots or that requires removal of			
vegetation			
Ponds in natural drainage ways, excluding dry ponds:			
<ul> <li>New ponds provided that a riparian buffer that meets</li> </ul>		X	
the diffuse flow requirements of this Rule is established			
adjacent to the pond			
New ponds where a riparian buffer that meets the			X
diffuse flow requirements of this Rule is NOT			
established adjacent to the pond			
Protection of existing structures, facilities and streambanks when		X	
this requires additional disturbance of the riparian buffer or the		11	
stream channel			
Railroad impacts other than crossings of streams and other			X
surface waters subject to this Rule			Λ
Railroad crossings of streams and other surface waters subject to			
this Rule:	37		
Railroad crossings that impact equal to or less than 40	X		
linear feet of riparian buffer		***	
Railroad crossings that impact greater than 40 linear		X	
feet but equal to or less than 150 linear feet of riparian			
buffer			
<ul> <li>Railroad crossings that impact greater than 150 linear</li> </ul>			X
feet of riparian buffer			
Removal of previous fill or debris provided that diffuse flow is	X		
maintained and any vegetation removed is restored			
Road impacts other than crossings of streams and other surface		X*	
waters subject to this Rule			
Road crossings of streams and other surface waters subject to			
this Rule:			
<ul> <li>Road crossings that impact equal to or less than 40</li> </ul>	X		
linear feet of riparian buffer and is perpendicular			
Road crossings that impact greater than 40 linear feet		X	
but equal to or less than 150 linear feet and is			
perpendicular			
Road crossings that impact greater than 150 linear feet		X*	
of riparian buffer			
Scientific studies and stream gauging	X		
Stormwater management ponds excluding dry ponds:	Λ		
		V	
New stormwater management ponds provided that a		X	
riparian buffer that meets the diffuse flow requirements			
of this Rule is established adjacent to the pond			37
New stormwater management ponds where a riparian			X
buffer that meets the diffuse flow requirements of this			
Rule is NOT established adjacent to the pond			
Stream restoration	X		
Streambank stabilization		X	
Temporary roads:			
Temporary roads that disturb less than or equal to	X		
2,500 square feet provided that vegetation is restored			
within six months of initial disturbance			
Temporary roads that disturb greater than 2,500 square		X	
feet provided that vegetation is restored within six			
months of initial disturbance			

		**	1
Temporary roads used for bridge construction or		X	
replacement provided that restoration activities, such as			
soil stabilization and revegetation, are conducted			
immediately after construction			
Temporary sediment and erosion control devices:			
<ul> <li>To control impacts associated with uses approved by</li> </ul>		X	
the Division or that have received a variance provided			
that sediment and erosion control for upland areas is			
addressed to the maximum extent practical outside the			
buffer			
In-stream temporary erosion and sediment control	X		
measures for work within a stream channel			
Underground electric utility lines:			
<ul> <li>Impacts other than perpendicular crossings <sup>3,4</sup></li> </ul>	X		
Underground electric utility line perpendicular crossings of			
streams and other surface waters subject to this Rule:			
<ul> <li>Perpendicular crossings that disturb less than or equal</li> </ul>	X		
to 40 linear feet of riparian buffer <sup>3,4</sup>			
<ul> <li>Perpendicular crossings that disturb greater than 40</li> </ul>		X	
linear feet of riparian buffer <sup>3,4</sup>			
Vegetation management:			
Emergency fire control measures provided that	X		
topography is restored			
<ul> <li>Planting vegetation to enhance the riparian buffer</li> </ul>	X		
<ul> <li>Pruning forest vegetation provided that the health and</li> </ul>	X		
function of the forest vegetation is not compromised			
Removal of individual trees which are in danger of	X		
causing damage to dwellings, other structures or human			
life			
Removal of poison ivy	X		
Removal of understory nuisance vegetation as defined			
in: Smith, Cherri L. 1998. Exotic Plant Guidelines.	X		
Department of Environment and Natural Resources.			
Division of Parks and Recreation. Raleigh, NC.			
Guideline #30			
Water dependent structures as defined in 15A NCAC 02B .0202		X	
Water wells	X		
Wetland restoration	X		

Provided that all of the following BMPs for overhead utility lines are used. If all of these BMPs are not used, then the overhead utility lines shall require a no practical alternatives evaluation by the Division of Water Quality.

- A minimum zone of 10 feet wide immediately adjacent to the water body shall be managed such that only vegetation that poses a hazard or has the potential to grow tall enough to interfere with the line is removed.
- Woody vegetation shall be cleared by hand. No land grubbing or grading is allowed.
- Vegetative root systems shall be left intact to maintain the integrity of the soil. Stumps shall remain where trees are cut.
- Rip rap shall not be used unless it is necessary to stabilize a tower.
- No fertilizer shall be used other than a one-time application to re-establish vegetation.
- Construction activities shall minimize the removal of woody vegetation, the extent of the disturbed area, and the time in which
  areas remain in a disturbed state.
- Active measures shall be taken after construction and during routine maintenance to ensure diffuse flow of stormwater through the buffer.
- In wetlands, mats shall be utilized to minimize soil disturbance.
- Provided that poles or towers shall not be installed within 10 feet of a water body unless the Division of Water Quality completes a no practical alternatives evaluation.
- Perpendicular crossings are those that intersect the surface water at an angle between 75 degrees and 105 degrees.
- Provided that all of the following BMPs for underground utility lines are used.

If all of these BMPs are not used, then the underground utility line shall require a no practical alternatives evaluation by the Division of Water Quality.

- Woody vegetation shall be cleared by hand. No land grubbing or grading is allowed.
- Vegetative root systems shall be left intact to maintain the integrity of the soil. Stumps shall remain, except in the trench, where trees are cut.
- Underground cables shall be installed by vibratory plow or trenching.
- The trench shall be backfilled with the excavated soil material immediately following cable installation.
- No fertilizer shall be used other than a one-time application to re-establish vegetation.
- Construction activities shall minimize the removal of woody vegetation, the extent of the disturbed area, and the time in which areas remain in a disturbed state.
- Active measures shall be taken after construction and during routine maintenance to ensure diffuse flow of stormwater through the buffer.
- In wetlands, mats shall be utilized to minimize soil disturbance.

History Note: Authority G.S. 143-214.1; 143-215.8A; 143-214.7;

Eff. February 1, 2009.

## 15A NCAC 02B .0608 SITE SPECIFIC WATER QUALITY MANAGEMENT PLAN FOR THE GOOSE CREEK WATERSHED (YADKIN PEE-DEE RIVER BASIN): MANAGE ACTIVITIES WITHIN RIPARIAN BUFFERS: FOREST HARVESTING REQUIREMENTS

- (a) The following requirements shall apply for forest harvesting operations and practices in the riparian areas.
  - (1) Logging decks and sawmill sites shall not be placed in the riparian buffer.
  - (2) Access roads and skid trails are prohibited except for temporary and permanent stream crossings established in accordance with 15A NCAC 01I .0203. Temporary stream crossings shall be permanently stabilized after any site disturbing activity is completed.
  - (3) Timber felling shall be directed away from the stream or water body.
  - (4) Skidding shall be directed away from the stream or water body and shall be done in a manner that minimizes soil disturbance and prevents the creation of channels or ruts.
  - (5) Individual trees may be treated to maintain or improve their health, form or vigor.
  - (6) Harvesting of dead or infected trees or application of pesticides necessary to prevent or control extensive tree pest and disease infestation is allowed, when approved by the Division of Forest Resources for a specific site in accordance with G.S. 113-60.4. A copy of the Division of Forest Resources approval must be provided to the Division of Water Quality in accordance with Session Law 2001-404.
  - (7) Removal of individual trees that are in danger of causing damage to structures or human life is allowed.
  - (8) Natural regeneration of forest vegetation and planting of trees, shrubs, or ground cover plants to enhance the riparian buffer is allowed provided that soil disturbance is minimized. Plantings shall consist primarily of native species.
  - (9) High intensity prescribed burns shall not be allowed.
  - (10) Application of fertilizer is not allowed except as necessary for permanent stabilization. Broadcast application of fertilizer or herbicides to the adjacent forest stand shall be conducted so that the chemicals are not applied directly to or allowed to drift into the riparian buffer.
- (b) In the riparian buffer, forest vegetation shall be protected and maintained. Selective harvest as provided for below is allowed on forest lands that have a deferment for use value under forestry in accordance with G.S. 105-277.2 through G.S. 277.6 or on forest lands that have a forest management plan prepared or approved by a registered professional forester. Copies of either the approval of the deferment for use value under forestry or the forest management plan shall be produced upon request. For such forest lands, selective harvest is allowed in accordance with the following:
  - (1) Tracked or wheeled vehicles are not permitted within the first 50 feet the riparian buffer top of bank landward except at stream crossings designed, constructed and maintained in accordance with 15A NCAC 01I .0203.
  - (2) Soil disturbing site preparation activities are not allowed.
  - (3) Trees shall be removed with the minimum disturbance to the soil and residual vegetation.
  - (4) The first 10 feet of the riparian buffer directly adjacent to the stream or waterbody shall be undisturbed.
  - In the zone from 10 feet to 50 feet of the riparian buffer, a maximum of 50 percent of the trees greater than five inches diameter breast height (dbh) may be cut and removed. The reentry time for harvest shall be no more frequent than every 15 years, except on forest plantations as defined in 15A NCAC 02B .0233(e) where the reentry time shall be no more frequent than every five years. In either case, the trees remaining after harvest shall be as evenly spaced as possible.
  - (6) In the outer riparian buffer (landward of 50 feet), harvesting and regeneration of the forest stand is allowed provided that sufficient ground cover is maintained to provide for diffusion and infiltration of surface runoff.

History Note: Authority G.S. 143-214.1; 143-215.3(a)(1); 143-215.8A; Eff. February 1, 2009.

## 15A NCAC 02B .0609 SITE SPECIFIC WATER QUALITY MANAGEMENT PLAN FOR THE GOOSE CREEK WATERSHED (YADKIN PEE-DEE RIVER BASIN): MANAGE ACTIVITIES WITHIN RIPARIAN BUFFERS: MITIGATION REQUIREMENTS FOR BUFFER IMPACTS

- (a) PURPOSE. The purpose of this Rule is to set forth the mitigation requirements that apply to the Goose Creek Watershed existing riparian buffer protection program, as described in 15A NCAC 02B .0605, .0606, and .0607.
- (b) APPLICABILITY. This Rule applies to persons who wish to impact a riparian buffer in the Goose Creek Watershed when one of the following applies:
  - (1) A person has received an Authorization Certificate pursuant to 15A NCAC 02B .0607 for a proposed use that is designated as potentially allowable requiring both DWQ approval and mitigation.
  - (2) A person has received a variance pursuant to 15A NCAC 02B .0606 and is required to perform mitigation as a condition of a variance approval.
- (c) THE AREA OF MITIGATION. The required area of mitigation shall be determined by either the Division of Water Quality or the delegated local authority according to the following:
  - (1) The impacts in square feet to the riparian buffer shall be determined by the Division of Water Quality or the delegated local authority by adding the following:
    - (A) The area of the footprint of the use causing the impact to the riparian buffer.
    - (B) The area of the boundary of any clearing and grading activities within the riparian buffer necessary to accommodate the use.
    - (C) The area of any ongoing maintenance corridors within the riparian buffer associated with the use.
  - (2) The required area of mitigation shall be determined by applying the following multipliers to the impacts determined in Subparagraph (c)(1) of this Rule to each zone of the riparian buffer:
    - (A) Impacts to the riparian buffer shall be multiplied by three.
    - (B) Impacts to wetlands within the riparian buffer that are subject to mitigation under 15A NCAC 02H .0506 shall comply with the mitigation ratios in 15A NCAC 02H .0506.
- (d) THE LOCATION OF MITIGATION. The mitigation effort shall be within the Goose Creek Watershed, as close to the location of the impact as feasible.
- (e) ISSUANCE OF THE MITIGATION DETERMINATION. The Division of Water Quality or the delegated local authority shall issue a mitigation determination that specifies the required area and location of mitigation pursuant to Paragraph (c) of this Rule.
- (f) OPTIONS FOR MEETING THE MITIGATION DETERMINATION. The mitigation determination made pursuant to Paragraph (e) of this Rule may be met through one of the following options:
  - (1) Payment of a compensatory mitigation fee to the Riparian Buffer Restoration Fund pursuant to Paragraph (g) of this Rule
  - (2) Donation of real property or of an interest in real property pursuant to Paragraph (h) of this Rule.
  - (3) Restoration or enhancement of a non-forested riparian buffer. This shall be accomplished by the applicant after submittal and approval of a restoration plan pursuant to Paragraph (i) of this Rule.
- (g) PAYMENT TO THE RIPARIAN BUFFER RESTORATION FUND. Persons who choose to satisfy their mitigation determination by paying a compensatory mitigation fee to the Riparian Buffer Restoration Fund shall meet the following requirements:
  - (1) SCHEDULE OF FEES: The amount of payment into the Fund shall be determined by multiplying the acres or square feet of mitigation determination made pursuant to Paragraph (e) of this Rule by ninety-six cents (\$.96) per square foot or forty-one thousand, six hundred and twenty-five dollars (\$41,625) per acre.
  - (2) The required fee shall be submitted to the [North Carolina Ecosystem Enhancement Program, 1652 Mail Service Center, Raleigh, NC 27699-1652] prior to any activity that results in the removal or degradation of the protected riparian buffer for which a "no practical alternatives" determination has been made.
  - (3) The payment of a compensatory mitigation fee may be fully or partially satisfied by donation of real property interests pursuant to Paragraph (h) of this Rule.
  - (4) The Division of Water Quality shall review the fee outlined in Subparagraph (g)(1) of this Rule every two years and compare it to the actual cost of restoration activities conducted by the Department, including site identification, planning, implementation, monitoring and maintenance costs. Based upon this biennial review, the Division of Water Quality shall recommend revisions to Subparagraph (g)(1) of this Rule when adjustments to this Schedule of Fees are deemed necessary.
- (h) DONATION OF PROPERTY. Persons who choose to satisfy their mitigation determination by donating real property or an interest in real property shall meet the following requirements:
  - (1) The donation of real property interests may be used to either partially or fully satisfy the payment of a compensatory mitigation fee to the Riparian Buffer Restoration Fund pursuant to Paragraph (g) of this Rule. The value of the property interest shall be determined by an appraisal performed in accordance with Part (h)(4)(D) of this Rule. The donation shall satisfy the mitigation determination if the appraised value of the donated property interest is equal to or greater than the required fee. If the appraised value of the donated property interest is less than the required fee calculated pursuant to Subparagraph (g)(1) of this Rule, the applicant shall pay the remaining balance due.
  - (2) The donation of conservation easements to satisfy compensatory mitigation requirements shall be accepted only if the conservation easement is granted in perpetuity.

- (3) Donation of real property interests to satisfy the mitigation determination shall be accepted only if such property meets all of the following requirements:
  - (A) The property shall be located within an area that is identified as a priority for restoration in the Basinwide Wetlands and Riparian Restoration Plan developed by the Department pursuant to G.S. 143-214.10 or shall be located at a site that is otherwise consistent with the goals outlined in the Basinwide Wetlands and Riparian Restoration Plan;
  - (B) The property shall contain riparian areas for restoration, defined in 15A NCAC 02B .0243, not currently protected by the State's riparian buffer protection program that merit restoration;
  - (C) The size of the restorable riparian buffer on the property to be donated shall equal or exceed the acreage of riparian buffer required to be mitigated under the mitigation responsibility determined pursuant to Paragraph (c) of this Rule;
  - (D) The property shall not require excessive measures for successful restoration, such as removal of structures or infrastructure. Restoration of the property shall be capable of fully offsetting the adverse impacts of the requested use;
  - (E) The property shall be suitable to be successfully restored, based on existing hydrology, soils, and vegetation;
  - (F) The estimated cost of restoring and maintaining the property shall not exceed the value of the property minus site identification and land acquisition costs;
  - (G) The property shall not contain any building, structure, object, site, or district that is listed in the National Register of Historic Places established pursuant to Public Law 89-665, 16 U.S.C. 470 as amended;
  - (H) The property shall not contain any hazardous substance or solid waste;
  - (I) The property shall not contain structures or materials that present health or safety problems to the general public. If wells, septic, water or sewer connections exist, they shall be filled, remediated or closed at owner's expense in accordance with state and local health and safety regulations;
  - (J) The property and adjacent properties shall not have prior, current, and known future land use that would inhibit the function of the restoration effort;
  - (K) The property shall not have any encumbrances or conditions on the transfer of the property interests.
- (4) At the expense of the applicant or donor, the following information shall be submitted to the Division of Water Quality with any proposal for donations or dedications of interest in real property:
  - (A) Documentation that the property meets the requirements laid out in Subparagraph (h)(3) of this Rule.
  - (B) US Geological Survey 1:24,000 (7.5 minute) scale topographic map, county tax map, USDA Natural Resource Conservation Service County Soil Survey Map, and county road map showing the location of the property to be donated along with information on existing site conditions, vegetation types, presence of existing structures and easements.
  - (C) A current property survey performed in accordance with the procedures of the North Carolina Department of Administration, State Property Office as identified by the State Board of Registration for Professional Engineers and Land Surveyors in "Standards of Practice for Land Surveying in North Carolina." Copies may be obtained from the North Carolina State Board of Registration for Professional Engineers and Land Surveyors, 3620 Six Forks Road, Suite 300, Raleigh, North Carolina 27609.
  - (D) A current appraisal of the value of the property performed in accordance with the procedures of the North Carolina Department of Administration, State Property Office as identified by the Appraisal Board in the "Uniform Standards of Professional North Carolina Appraisal Practice." Copies may be obtained from the Appraisal Foundation, Publications Department, P.O. Box 96734, Washington, D.C. 20090-6734.
  - (E) A title certificate.
- (i) RIPARIAN BUFFER RESTORATION OR ENHANCEMENT. Persons who choose to meet their mitigation requirement through riparian buffer restoration or enhancement shall meet the following requirements:
  - (1) The applicant may restore or enhance riparian buffer defined in 15A NCAC 02B .0243 if either of the following applies:
    - (A) The area of riparian buffer restoration is equal to the required area of mitigation determined pursuant to Paragraph (c) of this Rule; or
    - (B) The area of riparian buffer enhancement is three times larger than the required area of mitigation determined pursuant to Paragraph (c) of this Rule.
  - (2) The location of the riparian buffer restoration or enhancement shall comply with the requirements in Paragraph (d) of this Rule.
  - (3) The riparian buffer restoration or enhancement site shall have a minimum width of 50 feet as measured horizontally on a line perpendicular to the surface water and may include the following:
    - (A) Restoration/enhancement of existing riparian areas.
    - (B) Restoration/enhancement and respective preservation of streamside areas when the stream is not depicted on USGS map or Soil Survey.
    - (C) Preservation of streamside areas when the stream is not depicted on USGS map or Soil Survey.

- (D) Restoration/enhancement and respective preservation of streamside areas along first order ephemeral streams that discharge/outlet into intermittent or perennial streams.
- (E) Preservation of the streamside area along first order ephemeral streams that discharge/outlet intermittent or perennial stream.
- (4) Other individual/innovative mitigation projects may be approved by the Division of Water Quality that meet the purpose of this Rule.
- (5) The applicant shall first receive an Authorization Certificate for the proposed use according to the requirements of 15A NCAC 02B .0607. After receiving this determination, the applicant shall submit a restoration or enhancement plan for approval by the Division of Water Quality. The Division of Water Quality shall approve plans that meet the requirements of this Rule. The restoration or enhancement plan shall contain the following.
  - (A) A map of the proposed restoration or enhancement site.
  - (B) A vegetation plan. The vegetation plan shall include a minimum of two native hardwood tree species planted at a density sufficient to provide 320 trees per acre at maturity.
  - (C) A grading plan. The site shall be graded in a manner to ensure diffuse flow through the riparian buffer.
  - (D) A fertilization plan.
  - (E) A schedule for implementation.
- (6) Within one year after the Division of Water Quality has approved the restoration or enhancement plan, the applicant shall present proof to the Division of Water Quality that the riparian buffer has been restored or enhanced. If proof is not presented within this timeframe, then the person shall be in violation of the State's or the delegated local authority's riparian buffer protection program.
- (7) The mitigation area shall be placed under a perpetual conservation easement that will provide for protection of the property's nutrient removal functions.
- (8) The applicant shall submit annual reports for a period of five years after the restoration or enhancement showing that the trees planted have survived and that diffuse flow through the riparian buffer has been maintained. The applicant shall replace trees that do not survive and restore diffuse flow if needed during that five-year period.

History Note: Authority G.S. 143-214.1; 143-215.3(a)(1); 143-215.8A; Eff. February 1, 2009.