

North Carolina Department of Environment and Natural Resources
Division of Forest Resources
Forest Management
2000 - 2003

BMP Implementation Survey Form

Part I. General Information

Date: _____ County _____ # Acres in Harvest Operation _____
District # _____ Region # _____ Name of Adjacent Highway _____
Inspector Name _____ Location (GPS; Lat/Long; QBSP) _____

Logger Name: _____ Company Name: _____
Logger Address: _____

Home Phone: () _____ Work Phone: () _____

Ownership (check one): Government Private Non-industrial Private Industrial

Technical forestry assistance was provided for the harvest by (check all that apply):
 DFR Forester/Technician Industrial Forester Forestry Consultant None Received
 Timber Buyer (Logging Company) Unknown Other _____

Is logger/contractor a graduate of the NCFCA ProLogger Program? Yes No
(If Yes, answer questions below. Answer if logger onsite, otherwise CO will obtain information.)
Approximate month/year graduated _____ Course location _____

Logger has DFR reference material on-site: Yes No (If Yes, check all that apply)
 Wetland Forestry BMP Manual BMP Checklist for Forest Harvest Operations
 Upland Forestry BMP Manual FPG Booklet/Regulations
 Other Guidance Material: _____

Logger notified County District office of his intent to harvest: Yes No

Pre-harvest plan (PHP) performed: Yes No
PHP completed by: Consultant DFR Staff
 Timber Buyer (Company) Other _____
Did you see written PHP? Yes No

Estimated completion (%) of harvest operation at time of survey:
 0-25% 25-50% 50-75% 75-100% complete

Part II. Site Information and Characteristics

1. Dominant forest type prior to harvest treatment (check one):
 Intensive Forest Management Forested Wetland Management
 Passive Forest Management Silvi/Agro Forest Management
2. Dominant Land Feature (check one):
 Wetlands Rolling Other: _____
 Flatwoods Foothills
 Pocosin or Bay Mountain
3. Physiographic Province (check one): Coastal Plain Piedmont Mountain
4. Principle Soil Class (check one): Clay Loam Sand Sandy-Loam
 Sandy-clay-loam Sandy-clay Clay-loam
5. Estimated slope of harvested/treated area **approaching predominant waterbody** (circle one):
 0-5% 6-10% 11-20% 21-45% 46+%
6. Soil erodibility Class (circle one): A
(LOW) B
(MODERATE) C
(HIGH)
7. Soil Erosion Type **observed near waterbody**:
 Sheet Rill Gully Wind None Observed

Part III. Forestry Operations

1. Timber Harvest Method (check all that apply):
 Regeneration Harvest Intermediate Harvest Salvage Cut
 Clearcut Thinning Selection
 Seed Tree Croptree Release Other _____
 Shelterwood Improvement
2. Primary (merchantable) timber species harvested:
 N/A Other Pine species & Mixed Pine
 Loblolly Pine Cypress/Juniper
 Longleaf Pine Hardwood species
 Eastern White Pine Pine-Hardwood Mix
3. Are Forested Wetland Roads present on this site? Yes No
4. Are Stream Crossings present on this site? Yes No

Part IV. BMPs Applicable to Operations

BMP Description	Check if BMP applies*	Go To Page
Streamside Management Zones (SMZ)		
• SMZ Width	<input type="checkbox"/>	6
• SMZ Conditions	<input type="checkbox"/>	7
• Stream Temperature	<input type="checkbox"/>	7
Debris Entering Stream	<input type="checkbox"/>	8
Waste Entering Stream	<input type="checkbox"/>	8
Roads, Skid Trails, & Stream Crossings		
• Permanent Forest Roads	<input type="checkbox"/>	9
• Skid Trails	<input type="checkbox"/>	10
• Stream Crossings	<input type="checkbox"/>	11
• Access Road Entrances	<input type="checkbox"/>	12
Rehabilitation of Project Site	<input type="checkbox"/>	12

***Note: For the purpose of this survey, the DFR “surveyor” determines which BMPs apply, not the logger or landowner. Avoid bias resulting from the presence of BMPs that are not applicable and vice versa. Forest Harvest Operations can be viewed as a three-step process: (1) Pre-harvest Planning, (2) Logging Operation, and (3) Project Closeout. The BMP Implementation Survey you conduct will be in one of these three phases or a transition from one phase to another. Please refer to DFR’s BMP Checklist for Forest Harvest Operations handbook published in 1996. This reference will assist you in determining what to look for with respect to the “surveyed” forest harvest phase. Please indicate below the phase of the operation:**

- Pre-harvest Planning Logging Operation Project Closeout
 Pre-harvest Planning/Logging Operation Logging Operation/Project Closeout

State and Local Buffer Protection Rules: Presently, there are state-mandated forest harvest compliance requirements for the Neuse and Tar-Pamlico River basins and a portion of the Catawba River Mainstem. This survey contains questionnaire components that address the above three (3) rules only. Other specific watershed, stream, and local buffer rules and tree ordinances exist within NC that are not addressed in this survey. Should you be aware of additional buffer rule or tree ordinance applicability when completing this survey, please identify the following:

Government Entity: _____

Applicable Ordinance (Including codification) _____

Other Comments: _____

Note: The purpose of this inquiry is to identify the rule/ordinance existence for information management; determining compliance for the purposes of this survey is not required.

If harvest operation is in the Neuse River Basin / Tar-Pamlico River Basin answer the following:

For Perennial Streams*

Fifty-foot SMZ width present: Yes No N/A

In first ten feet of Zone 1, "selective harvest" in compliance with Neuse/Tar-Pam Buffer Rule: Yes No

In outer twenty feet of Zone 1, "selective harvest" in compliance with Neuse/Tar-Pam Buffer Rule: Yes No

In twenty-feet of Zone 2, ground cover is in compliance with Neuse/Tar-Pam Buffer Rule: Yes No

For Intermittent Streams*

Fifty-foot SMZ width present: Yes No N/A

In first ten feet of Zone 1, "selective cut" in compliance with Neuse/Tar-Pam Buffer Rule: Yes No

In outer twenty feet of Zone 1, "selective cut" in compliance with Neuse/Tar-Pam Buffer Rule: Yes No

In Zone 2, ground cover is in compliance with Neuse/Tar-Pam Buffer Rule: Yes No

For Perennial Waterbody*

Fifty-foot SMZ width present: Yes No N/A

In first ten feet of Zone 1, "selective cut" in compliance with Neuse/Tar-Pam Buffer Rule: Yes No

In outer twenty feet of Zone 1, "selective cut" in compliance with Neuse/Tar-Pam Buffer Rule: Yes No

In Zone 2, ground cover is in compliance with Neuse/Tar-Pam Buffer Rule: Yes No

*Do not transfer responses to Overall BMP Implementation Summary page.

Note: The Neuse and Tar-Pamlico Buffer Rules require that the property be under present use valuation or managed according to a forest management plan prepared or approved by a registered professional forester. Within the first 10 feet of Zone 1, selected high value trees (defined within the rule) may be cut, so long as the tree has no exposed primary roots in the streambank. In the outer 20 feet of Zone 1, up to 50% of the trees greater than 5 inches in DBH may be removed, with reentry no more frequent than 15 years. In plantations, reentry is allowed every 5 years. In Zone 2, harvesting and regeneration is allowed provided that sufficient ground cover is maintained to provide for diffusion and infiltration of surface runoff. Please consult the buffer rules for further details or call the Central Office staff.

Comments: _____

If harvest operation borders the mainstem of the Catawba River and/or mainstem lakes including Lake James, Lake Rhodhiss, Lake Hickory, Lookout Shoals Lake, Lake Norman, Mountain Island Lake, and Lake Wylie (NC portion) answer the following:

For Zone 1*

Thirty-foot SMZ width present: Yes No N/A

**In first ten feet of Zone 1, "selective harvest" in compliance with Catawba Buffer Rule:

Yes No

**In outer twenty feet of Zone 1, "selective harvest" in compliance with Catawba Buffer Rule:

Yes No

Specific Harvest Requirements For Zone 1**:

Timber felling has been directed away from the waterbody:

Yes No N/A

Tracked and wheeled vehicles have been kept out of the buffer except at stream crossings:

Yes No N/A

Skidding, by alternative methods, has been directed away from the waterbody in a manner that minimized soil disturbance and is in compliance with the FPGs:

Yes No N/A

Logging decks and sawmill sites are located outside the buffer:

Yes No N/A

For Zone 2*

Twenty-foot SMZ width present: Yes No N/A

Specific Harvest Requirements For Zone 2:

Harvesting and regeneration of Zone 2 is in compliance with the FPGs.

Yes No N/A

*Do not transfer responses to Overall BMP Implementation Summary page.

****Note:** The Catawba Buffer Rule establishes a 50-foot buffer width divided into two zones; Zone 1 (closest to the waterbody) being 30-feet and Zone 2 being 20-feet. Selective harvesting requirements allows removal of individual high value trees (trees greater or equal to 18 inches stump diameter for both pines and hardwoods) in the first 10 feet of Zone 1; this includes removal of trees with exposed primary roots in the streambank. In the outer 20 feet of Zone 1, trees greater than 12-inch diameter stump may be cut and removed. There is no requirement that a certain percentage of trees are left but the remaining trees should be evenly spaced. Application of fertilizer (prohibited except for permanent stabilization), natural regeneration/tree planting (permitted provided soil disturbance is minimized), and high intensity prescribed burns (prohibited) are not addressed in the context of the survey. If you should notice a violation of any of these three, please make a note in the Comments section below. Other buffer rule compliance issues should be commented on as well. Please consult the buffer rules for further details or call the Central Office staff should other questions arise.

Comments: _____

County: _____ Landowner: _____ Date: _____

**BMP:
Streamside Management Zone (SMZ) Width**

(Refer to 12-16 of the 1989 Forestry BMP Manual for more information about these categories)

Type of stream: Perennial Intermittent Both Perennial and Intermittent

Name of stream or waterbody, if known (optional): _____

1. Was a braided stream present in the harvest zone? Yes No

2. If stream, indicate Stream Order (circle all that apply): 1st 2nd 3rd 4th Higher

3. Indicate approximate width (feet) of intermittent stream or waterbody found on this site:

N/A 0-5' >5'

Indicate approximate width (feet) of perennial stream or waterbody found on this site:

N/A 0-5' 6-10' 11-20' >20'

4. Pre-harvest stream canopy provides: 0-25% 26-50% 51-75% 76-100% shade.

5. Post-harvest stream canopy provides: 0-25% 26-50% 51-75% 76-100% shade.

Type of Stream or Waterbody (check one)	Percent Slope of Adjacent Land and BMP Recommended SMZ Width (feet) (From Forestry BMP Manual)					SMZ Sufficient Width To Confine Sediment? (Circle Yes, No or N/A)			
	0-5%	6-10%	11-20%	21-45%	46+ %	Left Bank*		Right Bank*	
<input type="checkbox"/> Intermittent	50'	50'	50'	50'	50'	Y / N	N/A	Y / N	N/A
<input type="checkbox"/> Perennial	50'	50'	50'	50'	50'	Y / N	N/A	Y / N	N/A
<input type="checkbox"/> Perennial, Trout waters	50'	66'	75'	100'	125'	Y / N	N/A	Y / N	N/A
<input type="checkbox"/> Public Waterbodies	50'	100'	150'	150'	200'	Y / N	N/A	Y / N	N/A

*Determine left and right banks by facing downstream

Comments: _____

County: _____ Landowner: _____ Date: _____

BMP: Streamside Management Zone (SMZ) Conditions (Refer to pages 12-16 of the 1989 Forestry BMP Manual for more information about these categories)	MEETS BMP GUIDELINES			THREATS OR RISKS TO WATER QUALITY	
	Yes	No	N/A	Yes	No
SMZ uniformly maintained along intermittent & perennial streams/waterbodies.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Roads or trails minimized in SMZ (exclude stream crossing access).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trees were felled away from stream channel.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Skidders and other equipment use was minimized in SMZ (except at stream crossings).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Forest floor/ground cover is essentially undisturbed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
No visible sediment from operations present in streams/waterbodies.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Felled trees removed without machinery entering SMZ in areas where ephemeral streams intersect intermittent/perennial waters	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trees and logging debris removed from streams.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logging decks and/or sawmill sites located outside of SMZ.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logging decks and/or sawmill sites in SMZ \geq 10 feet from stream/waterbody. (Exception)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fuels and chemicals stored outside SMZ.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Innovative BMP utilized: <input type="checkbox"/> Yes <input type="checkbox"/> No. If yes, describe in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Responses for Streamside Management Zone (SMZ) Conditions					
BMP: Stream Temperature (Refer to page 13 of the 1989 Forestry BMP Manual for more information about these categories)	MEETS BMP GUIDELINES			THREATS OR RISKS TO WATER QUALITY	
	Yes	No	N/A	Yes	No
Adequate shade (\geq 75% original canopy) maintained on stream channel to protect perennial/intermittent streams from adverse temperature fluctuations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Innovative BMP utilized: <input type="checkbox"/> Yes <input type="checkbox"/> No. If yes, describe in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Responses for Stream Temperature					

BMPs were not applied to: SMZ Width / SMZ Conditions / Stream Temperature, but no threat to water quality (WQ) exists.

Comments: _____

County: _____ Landowner: _____ Date: _____

BMP: Debris Entering Stream (Refer to pages 12-16 of the 1989 Forestry BMP Manual for more information about these categories)	MEETS BMP GUIDELINES			THREATS OR RISKS TO WATER QUALITY	
	Yes	No	N/A	Yes	No
Stream obstructions (i.e., soils) from forestry operation(s) nonexistent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stream flow impairment (i.e., soils) by forestry operation(s) nonexistent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Logging and site preparation debris kept out of stream channels.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stream obstructions (i.e., logging debris) from forestry operation(s) nonexistent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stream flow impairment (i.e., logging debris) by forestry operation(s) nonexistent.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stream channel/course has not been altered by obstruction(s).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Innovative BMP utilized: <input type="checkbox"/> Yes <input type="checkbox"/> No. If yes, describe in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Responses for Debris Entering Stream					
BMP: Waste Entering Streams, Waterbodies, or Groundwater (Refer to pages 13 & 47-48 of the 1989 Forestry BMP Manual for more information about these categories)	MEETS BMP GUIDELINES			THREATS OR RISKS TO WATER QUALITY	
	Yes	No	N/A	Yes	No
Waste oil or other petroleum products were not discharged on site or into streams, waterbodies, or groundwater.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fertilizers and other chemical wastes were not discharged into streams, waterbodies, or groundwater.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All petroleum and chemical containers were removed from logging site.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chemical and fuel loading and storage was conducted outside of SMZ.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Innovative BMP utilized: <input type="checkbox"/> Yes <input type="checkbox"/> No. If yes, describe in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Responses for Waste Disposal					

BMPs were not applied to: debris in stream / waste in stream, but no threat to WQ exists.

Comments: _____

County: _____ Landowner: _____ Date: _____

BMP: Permanent Forest Roads (Refer to pages 17-20 of the 1989 Forestry BMP Manual for more information about these categories)	MEETS BMP GUIDELINES			THREATS OR RISKS TO WATER QUALITY						
	Yes	No	N/A	Yes	No					
Permanent roads established a year or more in advance of operation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Permanent roads are a minimum width of 10-14 feet for single track road.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Permanent roads placed on gentle side slopes and not ridge tops.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Permanent roads are located outside of SMZ.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Permanent roads follow contour lines.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Permanent roads have grades of 1-10%.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Drainage structures implemented: (check all that apply) <input type="checkbox"/> ditch turnouts <input type="checkbox"/> outsloping <input type="checkbox"/> wing ditches <input type="checkbox"/> broad based dips (truck haul roads) <input type="checkbox"/> rolling grade or dips (skid trails & steep roads) <input type="checkbox"/> cross-drain culverts <input type="checkbox"/> bridges	<u>Correctly Installed</u> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All drainage outfalls stabilized with riprap, heavy brush, or logs (circle all that apply).	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permanent roads intersect streams at right angle to stream channel.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bridge/culvert used where permanent roads cross streams or waterbodies.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Innovative BMP utilized: <input type="checkbox"/> Yes <input type="checkbox"/> No. If yes, describe in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Responses for Permanent Roads										

BMPs were not applied to: forest roads, but no threat to WQ exists.

Comments: _____

County: _____ Landowner: _____ Date: _____
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BMP: Skid Trails (Refer to pages 25-27 of the 1989 Forestry BMP Manual for more information about these categories)	MEETS BMP GUIDELINES			THREATS OR RISKS TO WATER QUALITY	
	Yes	No	N/A	Yes	No
Logging slash and debris placed on bare ground to prevent erosion.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Water bars/water diversions constructed where needed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rehabilitation completed for inactive skid trails.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Skid trails minimized in SMZ.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Skid trails intersecting streams at right angle to SMZ.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Soil compaction was avoided by concentrating skidder traffic on primary trails.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
“Souping” was avoided.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
“Rutting” was avoided.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Skid trails follow contours where possible.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Skid trails do not exceed grades of 25%.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
“Closed” skid trails protected by adequate waterbars or brush piles.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Innovative BMP utilized: <input type="checkbox"/> Yes <input type="checkbox"/> No. If yes, describe in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Responses for Skid Trails					

BMPs were not applied to: skid trails, but no threat to WQ exists.

Comments: _____

County: _____ Landowner: _____ Date: _____
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BMP: Stream Crossings (Refer to pages 28-32 of the 1989 Forestry BMP Manual for more information about these categories)	MEETS BMP GUIDELINES			THREATS OR RISKS TO WATER QUALITY	
	Yes	No	N/A	Yes	No
Stream flow obstruction and impairment avoided.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stream channel use as access road or skid trail avoided.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stream crossings stabilized and erosion prevented or controlled.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sufficient water control devices employed to collect and direct surface water flow away from stream.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ground cover is present to prevent visible sediment in stream.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type of stream crossing: (check all that apply) <input type="checkbox"/> culvert <input type="checkbox"/> bridge <input type="checkbox"/> rock ford <input type="checkbox"/> natural ford <input type="checkbox"/> dragline/bridge mat (<input type="checkbox"/> wood/ <input type="checkbox"/> steel) <input type="checkbox"/> other _____	<u>Correctly Installed</u> <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stream crossing(s) are: <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary <input type="checkbox"/> Both Permanent and Temporary					
Innovative BMP utilized: <input type="checkbox"/> Yes <input type="checkbox"/> No. If yes, describe in Comments.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Total Responses for Stream Crossings					

BMPs were not applied to: stream crossings, but no threat to WQ exists.

Comments: _____

County: _____ Landowner: _____ Date: _____

BMP: Access Road Entrances (Refer to page 19 of the 1989 Forestry BMP Manual for more information about these categories)	MEETS BMP GUIDELINES			THREATS OR RISKS TO WATER QUALITY	
	Yes	No	N/A	Yes	No
Excessive soil on the highway adjacent to access was avoided.	<input type="checkbox"/>				
Logging debris or trash on the highway adjacent to access was avoided.	<input type="checkbox"/>				
Drainage easement/ditch between main highway and access road (1) bridged by appropriate means; (2) properly stabilized and (3) not impeding storm water flow.	1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/>				
Innovative BMP utilized: <input type="checkbox"/> Yes <input type="checkbox"/> No. If yes, describe in Comments.	<input type="checkbox"/>				
Total Responses for Access Road Entrances					
BMP: Rehabilitation of Project Site (Refer to pages 51-66 of the 1989 Forestry BMP Manual for more information about these categories)	MEETS BMP GUIDELINES			THREATS OR RISKS TO WATER QUALITY	
	Yes	No	N/A	Yes	No
High/accelerated erosion areas have been provided ground cover or other sediment control measure(s) within 30 working days after ceasing any operational phase or beginning a period of inactivity in a portion of the entire harvest tract.	<input type="checkbox"/>				
Soils properly prepared for conventional seeding.	<input type="checkbox"/>				
Lime and fertilizer properly incorporated into soils.	<input type="checkbox"/>				
Seeding accomplished in an effective manner.	<input type="checkbox"/>				
Mulching (following seeding) meets the (1) 25% ground surface visibility standard; (2) mulch properly anchored.	1 <input type="checkbox"/> 2 <input type="checkbox"/>				
Innovative BMP utilized: <input type="checkbox"/> Yes <input type="checkbox"/> No. If yes, describe in Comments.	<input type="checkbox"/>				
Total Responses for Rehabilitation of Project Site					

BMPs were not applied to: access road entrances / rehab of site, but no threat to WQ exists.

Comments: _____

Overall BMP Implementation Summary

BMP Description	Number of Yes Responses	Number of No Responses	Total Yes + No	% Yes	Total Number of Threats or Risks to Water Quality
Streamside Management Zones (SMZ)					
• SMZ Width					
• SMZ Conditions					
• Stream Temperature					
Debris Entering Stream					
Waste Entering Stream					
Roads, Skid Trails, & Stream Crossings					
• Permanent Forest Roads					
• Skid Trails					
• Stream Crossings					
• Access Road Entrances					
Rehabilitation of Project Site					
Totals					
Overall Implementation (%)					
Total Practices with threats or risks to water quality (%)					

4808 Information

On ___ / ___ / ___ this forestry operation was inspected for compliance with the Forest Practices Guidelines, applicable buffer rules, and other water quality regulations.

This forestry operation is currently **in compliance** with the Forest Practices Guidelines.

This forestry operation is currently **in non-compliance** with the Forest Practices Guidelines because of the following marked violations:

- | | | |
|---|--|--|
| 0 .0201 Streamside management zone | 0 .0204 Access road entrances | 0 .0207 Fertilizer application |
| 0 .0202 Stream obstruction | 0 .0205 Prohibition of waste entering streams, waterbodies and groundwater | 0 .0208 Stream temperature |
| 0 .0203 Access road and skid trail stream crossings | 0 .0206 Pesticide application | 0 .0209 Rehabilitation of project site |

CORRECTIVE ACTION(S) NEEDED:

Surveyor Name: _____ District: _____

On _____ (month/day/year) I invested a total of _____ hours and _____ mileage to capture _____ survey(s).

On _____ (month/day/year) I attempted, without success, to conduct a survey in the county(ies) checked below. This attempt yielded no viable harvest operations that fit the survey's site selection criteria. My time and mileage investment in this effort was about _____ hours and _____ mileage.

- | | | | |
|------------------------------------|-------------------------------------|--------------------------------------|---------------------------------------|
| <input type="checkbox"/> Alamance | <input type="checkbox"/> Cumberland | <input type="checkbox"/> Johnston | <input type="checkbox"/> Randolph |
| <input type="checkbox"/> Alexander | <input type="checkbox"/> Currituck | <input type="checkbox"/> Jones | <input type="checkbox"/> Richmond |
| <input type="checkbox"/> Alleghany | <input type="checkbox"/> Dare | <input type="checkbox"/> Lee | <input type="checkbox"/> Robeson |
| <input type="checkbox"/> Anson | <input type="checkbox"/> Davidson | <input type="checkbox"/> Lenoir | <input type="checkbox"/> Rockingham |
| <input type="checkbox"/> Ashe | <input type="checkbox"/> Davie | <input type="checkbox"/> Lincoln | <input type="checkbox"/> Rowan |
| <input type="checkbox"/> Avery | <input type="checkbox"/> Duplin | <input type="checkbox"/> Macon | <input type="checkbox"/> Rutherford |
| <input type="checkbox"/> Beaufort | <input type="checkbox"/> Durham | <input type="checkbox"/> Madison | <input type="checkbox"/> Sampson |
| <input type="checkbox"/> Bertie | <input type="checkbox"/> Edgecombe | <input type="checkbox"/> Martin | <input type="checkbox"/> Scotland |
| <input type="checkbox"/> Bladen | <input type="checkbox"/> Forsyth | <input type="checkbox"/> McDowell | <input type="checkbox"/> Stanly |
| <input type="checkbox"/> Brunswick | <input type="checkbox"/> Franklin | <input type="checkbox"/> Mecklenburg | <input type="checkbox"/> Stokes |
| <input type="checkbox"/> Buncombe | <input type="checkbox"/> Gaston | <input type="checkbox"/> Mitchell | <input type="checkbox"/> Surry |
| <input type="checkbox"/> Burke | <input type="checkbox"/> Gates | <input type="checkbox"/> Montgomery | <input type="checkbox"/> Swain |
| <input type="checkbox"/> Cabarrus | <input type="checkbox"/> Graham | <input type="checkbox"/> Moore | <input type="checkbox"/> Transylvania |
| <input type="checkbox"/> Caldwell | <input type="checkbox"/> Granville | <input type="checkbox"/> Nash | <input type="checkbox"/> Tyrrell |
| <input type="checkbox"/> Camden | <input type="checkbox"/> Greene | <input type="checkbox"/> New Hanover | <input type="checkbox"/> Union |
| <input type="checkbox"/> Carteret | <input type="checkbox"/> Guildford | <input type="checkbox"/> Northampton | <input type="checkbox"/> Vance |
| <input type="checkbox"/> Caswell | <input type="checkbox"/> Halifax | <input type="checkbox"/> Onslow | <input type="checkbox"/> Wake |
| <input type="checkbox"/> Catawba | <input type="checkbox"/> Harnett | <input type="checkbox"/> Orange | <input type="checkbox"/> Warren |
| <input type="checkbox"/> Chatham | <input type="checkbox"/> Haywood | <input type="checkbox"/> Pamlico | <input type="checkbox"/> Washington |
| <input type="checkbox"/> Cherokee | <input type="checkbox"/> Henderson | <input type="checkbox"/> Pasquotank | <input type="checkbox"/> Watauga |
| <input type="checkbox"/> Chowan | <input type="checkbox"/> Hertford | <input type="checkbox"/> Pender | <input type="checkbox"/> Wayne |
| <input type="checkbox"/> Clay | <input type="checkbox"/> Hoke | <input type="checkbox"/> Perquimans | <input type="checkbox"/> Wilkes |
| <input type="checkbox"/> Cleveland | <input type="checkbox"/> Hyde | <input type="checkbox"/> Person | <input type="checkbox"/> Wilson |
| <input type="checkbox"/> Columbus | <input type="checkbox"/> Iredell | <input type="checkbox"/> Pitt | <input type="checkbox"/> Yadkin |
| <input type="checkbox"/> Craven | <input type="checkbox"/> Jackson | <input type="checkbox"/> Polk | <input type="checkbox"/> Yancey |

Summary Comments: _____

