### IMPAIRED AND IMPACTED STREAM/WATERSHED SURVEY

Please review and answer as many of the questions below as possible to the best of your ability. If you are not sure of how to answer a question, leave it blank and your basin planner will contact appropriate people for the answer. Please submit this document electronically to the North Carolina Division of Water Quality Basinwide Planning Unit. Details can be found on the last page of this survey.

Your Name:	Date:
Address:	
Phone:	E-mail:
	survey is voluntary. Submitted information will help guide resource agency staff to vestigations, assessments, identify funding sources, and/or implement remedial actions.**
Stream Name:	
River Basin:	Subbasin:
Assessment Unit Num	ber:
HUC (8 and/or 12-Dig	it Watershed Code):
GPS Coordinates: (Lat	.) (Long.)
County:	Municipality:
Weather in the past 24	
Weather conditions du	ring survey:
	Impaired or Impacted? (Refer to the Assessment and Use Support Table in lan or Integrated Report.)
Refer to the Stressors & Basinwide Plan or Inte	& Sources column in the Assessment and Use Support Table found in the grated Report:
Noted Stressors	
Noted Sources:	
	ocation and length as identified in the most recent Integrated Report or Basinwide ource to confluence with Dan River):
Date of most recent Ba	sinwide Plan:
Brief description of wh	hat the plan says about this stream:
Is there a current active	e monitoring program on this stream segment? Yes No.
If yes, what are the same	nples showing?
Does the watershed en	compass a Public Water Supply? Yes No.
If yes, please list the na	ame of the public water supply:

# <u>PART I</u>: In-Stream at the Impaired or Impacted stream segment - This area includes the streambed and streambanks throughout the named Impaired or Impacted stream segment.

1. Is the identified stream a natural stream or a stream modified by human activity? (e.g. channelized)

Yes No If yes, describe modification:

2.	Is there an apparent sediment	problem in the streambed of	of the impaired	or impacted stream	n segment?

 $\Box$  Yes  $\Box$  No (If no, please continue to question #5.)

3. If yes, is the excessive sedimentation coming from:

Streambanks
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Adjacent land area

Other sources within the watershed upstream of the identified stream segment

A tributary feeding into the identified stream segment (list name of the tributary)

4. Are there any current in-stream projects on the identified stream segment or upstream of the identified segment that are contributing sediment to the identified stream segment?

Yes No If yes, what type of project is it and are the stream disturbing effects from the projects temporary or long term?

5. Additional information (add any information here that helps describe the current water quality problems within the identified stream segment).

# **<u>PART II</u>: Watershed Area** - This area includes land beginning at the top of the streambank along the entire length of the identified Impaired or Impacted stream segment and extending away from the stream to the watershed boundary.

1. Are there sources of excessive sediment and/or pollution delivery into the identified stream segment from the watershed area?  $\Box$  Yes  $\Box$  No

2. If yes, what are the sources? (check all that apply)

Cropland
Pasture/Hayland
Forestland
Road construction
Construction other than road
Mining
Tributary stream (include name)
Other (list source)

3. Check the items listed below if they appear in this stream:

	Channelization
	Livestock access
	Pesticide mixing stations
	Outfall pipes and sources (stormwater, septic systems, unknown, etc.)
	Permitted discharges
	Development
	Road crossings
′	Trout farms
	Periods of no flow
	Swamp drainage
	Other (list items)

4. Estimate the percentage of stream miles in the watershed that are buffered:	%
Estimate of average buffer width (feet):	feet
What is the typical buffer vegetation (grass, shrubs, trees, etc.):	

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5. Describe land use changes in the watershed over the past 5-10 years:

6. If possible, descried the extent of <u>existing</u> BMPs in the watershed area (within the past 10 years):

**Name of BMP** (e.g. livestock exclusion, stormwater retention, streamside buffers, etc)

Est. Units/ Amount (e.g. 28 units) Funding Source (e.g. ACSP, EQIP, 319, EEP)

Cost (\$)

#### **<u>PART III</u>:** Actions Needed to Address Problems

1. Recommended Actions to Address Identified Problems: (e.g. riparian buffer rehabilitation; livestock exclusion; agrichemical handling facility; landowner education/outreach; stormwater retention pond, etc)

2. Potential barriers or limiting factors to solving identified problems: The following two questions are primarily aimed at resource professionals familiar with the costs of **Best Management Practice.** 3. Resources (other than cost share) needed to solve identified problems (show resources for staff, equipment): **Units/ Amount** Item **Estimated Cost** (\$) Needed 4. Estimate the extent of BMPs needed on this stream segment (please list in order of priority): **Quantity Needed** Name of BMP (e.g. livestock exclusion) **Estimated Cost** (\$) (acres, feet, units, etc.)

## **<u>PART IV</u>**: – Estimates of land uses in the watershed.

1. Major Land Uses in the Watershed (check all that apply)

	Streamside (up to 50')	Within 1000' of stream	Within Watershed
Residential:	(up to 50 )	of stream	water site
Single-family housing			
Apartment/Condo Buildings			
Lawn/Gardens			
Parking Lot			
Other:			
Commercial / Industrial / Institutional:			
Commercial (stores, restaurants, etc.)			
Auto repair/gas station			
Industrial			
Sewage treatment facility			
Sewage treatment lines/manholes			
Institutions (schools, offices)			
Landfill			
Junkyard			
Other:			
Forest / Park / Greenway:			
National/State Forest			
Recreational Facility			
Woods/Greenway			
Golf Courses			
Vegetative strips/buffers			
Other:			
Agriculture / Rural:			
Grazing land			
Cropland			
Animal feedlot			
Isolated farm			
Fallow field			
Fish hatchery			
Tree farm			

2. Summary of major land uses in the watershed (use approximate percentage)

Residential:%		
Commercial/Industrial:	_%	
Forest/Parkway/Greenway:		_%
Agriculture/Rural:%		
Other:%		

3. Major Land Use Activities in the Watershed (check all that apply)

	Streamside (up to 50')	Within 1000' of stream	Within Watershed
Construction:	(	01 001 00000	
Building (residential)			
Building (commercial)			
Roadway			
Bridge			
Other:			
Logging			
Selective logging			
Intensive logging			
Other:			
Mining			
Instream mining			
Strip mining			
Pit mining			
Abandoned mine			
Quarry			
Other:			
Recreation			
Municipal/private recreation fields			
Bicycling trails			
Off-road vehicle trails			
Boat ramp			
Jogging/hiking trails			
Swimming area			
Fishing area			
Picnic area			
Golf course			
Campground/trailer park			
Power boating/jet skis			
Other:			

4. Comments on land uses (Use this space to expand on land use descriptions identified above. For example, you might identify specific buildings, locations of construction sites, note the streamside conditions, presence of cattle instream, note any corrective actions taken, etc.)

5. Pipe and Drainage Ditch Inventory
This information applies to a:  Pipe Drainage Ditch Other:
Describe the discharge flow from the pipe or ditch (if any): Rate of flow: None Steady Intermittent Heavy Trickle Appearance: Clear Foamy Turbid Oily sheen Colored Odor: None Chlorine Rotten egg Sewage Other:
6. Comments on pipe or drainage ditch observations (Use this space to identify specific facilities, or provide additional information on the drainage or stream condition noted above.)

**Thank you for completing this survey!** These recommendations can be used to develop remediation proposals for the Section 319 or 205J, Ag Cost-Share Program, Clean Water Management Trust Fund, and other grant sources. Survey results will also help the DWQ's Basinwide Planning Program in developing basinwide plans and to assist you in developing watershed plans for your watershed of interest.

Please send surveys either electronically to jeff.manning@ncdenr.gov or a hard copy to the address listed below. If you have any questions about your river basin, call 919-807-6415 or visit http://portal.ncdenr.org/web/wq/ps/bpu.

Basin Planner DENR- Division of Water Quality 1617 MSC, Raleigh, NC 27699-1617

Please attach digital photos, aerial photos, GIS maps and/or any additional information that you would like to provide about this stream and its watershed.