



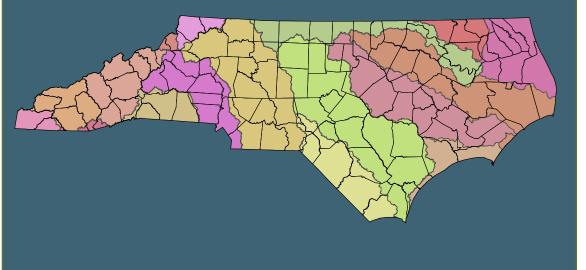
Department of Environmental Quality Division of Water Resources Water Planning Section – Basin Planning Branch

Cape Fear River Plan & Survey



Basin Planning

Provides a single location to present water quality and water quantity related issues



Basinwide water quality management plans

Watershed-based approach to managing water resources

- Considers the cumulative impacts to all activities across a river basin (point and nonpoint sources of pollution)
- Consider all transfers into and from river basins (IBT's)
- Provide that point and nonpoint sources jointly share the responsibility of reducing pollutants to the State's waters
- Report on the goals to reduce nutrients in NSW watersheds
- Basin plan required every 10 years
- Basin plans are not a rule

Basinwide Water Resources Management Plans

- Goals
 - Provide scientifically-based water quality and quantity analysis for planning purposes
 - Provide recommendations for implementation measures by water resource agencies and volunteer watershed groups
 - Provide ongoing support for watershed restoration and protection efforts
- Public education
 - Water quality and water quantity (water demand)
 - Point and nonpoint sources of pollution
 - Protection measures
- Provide guidance to support decisions about water resources management
 - Permitting strategies
 - Nutrient management strategies
 - Watershed restoration planning and implementation of best management practices
 - Water supply and demand





Basin Characteristics

- Geography
- Population and land cover
- Pollution Sources



Monitoring Data and Water Quality Assessment

• Overview of biological, chemical and physical parameters



Permitted and Registered Activities

General descriptions of existing water resource programs



Local Water Quality Initiative and Funding Opportunities

Descriptions of stakeholder groups and watershed activities



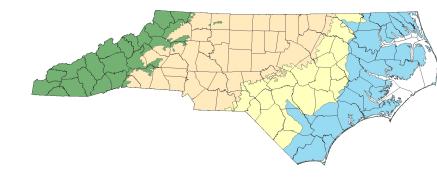
Water Use and Availability

• Summary of water use in the basin

Watershed Chapters (HUC 8)

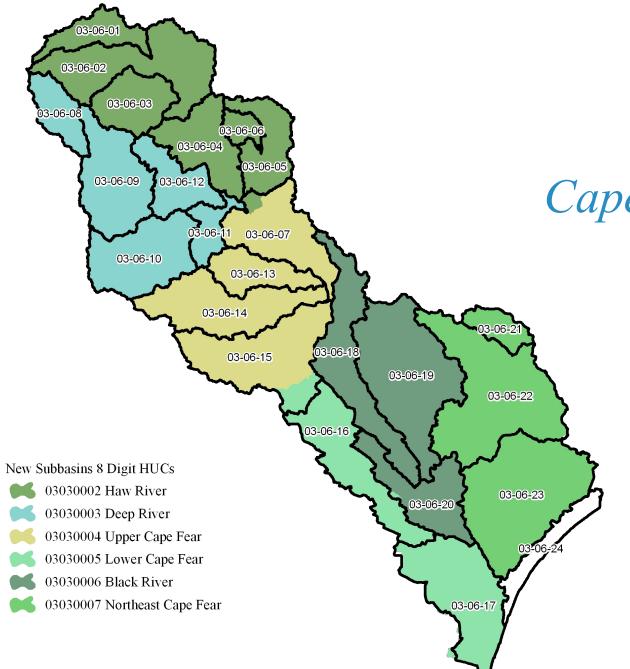
Watershed specific information and recommendations





Basinwide Water Resources

Management Plan Outline



Cape Fear River Basin HUC 8 Map





Cape Fear River Basin HUC 8 & 10 Map





Survey for the Cape Fear River Basin Water Resources Management Plan

We use water everyday in many different ways. In our homes, we use water for drinking, cooking, cleaning, and watering our plants. Commercial and industrial companies use water for manufacturing products. Agriculture uses water for crop irrigation and livestock care. Recreational uses include fishing, boating, swimming, and wading. Water also is historically and culturally significant to many people and communities.

To ensure that the waters of our state are protected, developed, and maintained in a sustainable manner, the Division of Water Resources (DWR) creates comprehensive basinwide water resources management plans (basin plans). Basin plans include information about water quality and quantity, and represents cumulative and ongoing efforts of several local and state entities working within the basin. The 2022 basin plan is the 4th document to be developed for the Cape Fear River basin by DWR.

The following survey was developed in partnership with the Cape Fear River Assembly (CFRA) and DWR's Basin Planning Branch (BPB). The framework for why this survey is important can be found by scanning the QR code at the end of the survey or clicking the following link: <u>https://qrcgcustomers.s3-eu-west-</u> <u>1.amazonaws.com/account19862747/28478982 1.pdf?0.2175851676405777</u>

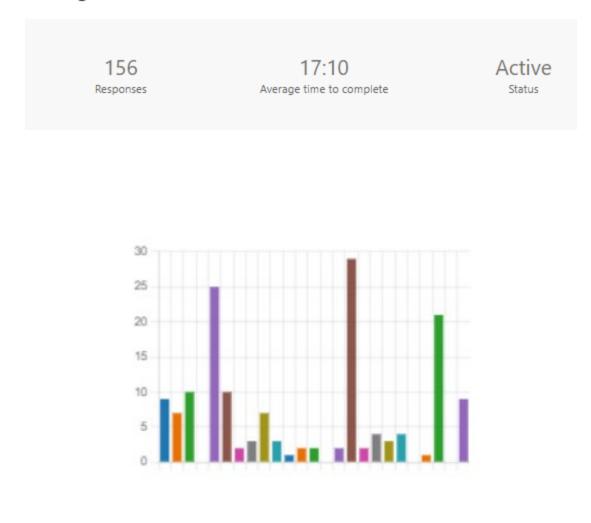
Section 1 should only take 2-3 minutes to complete. Section 2 is optional but allows you to provide more detail on what you think some of the obstacles are for protecting our waters. **Not all topics will be addressed in the basin plan**, but answers provided here will help guide our efforts in understanding the issues facing the Cape Fear River basin and allow us to provide you with additional resources following this survey

Please complete the survey in one session. Otherwise, edits and comments will be lost. You can submit multiple surveys if needed or if you forget to note something in the original.



Department of Environmental Quality

Survey for the Cape Fear River Basin Water Resources Management Plan



1. What North Carolina county do you reside in?

9

25

29

2

4

3

4

0

1 21

0

9

- More Details
 Alamance
- Bladen 7 Brunswick 10 Caswell 0
- Chatham
- Cumberland 10
- Durham 3
- Guilford 7
- Harnett

New Hanover

Onslow

Orange

Pender

Randolph

Rockingham

Sampson

Wake

Wayne

Other

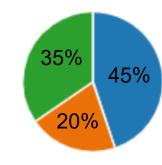
- Hoke
 Johnston
 2
- Lee 2
 Montgomery 0
 Moore 2



2. Are you familiar with river basin plans?

More Details

Yes 70 No 32 Somewhat 54



3. If so, how do you use river basin plans?

More Details

110 Responses Latest Responses "Those plans will give us information about water use and availability. Wate...

4. In your opinion, how do you feel that waters in the Cape Fear River basin are being protected on a scale from 1 to 5, with 5 being very protected and 1 being not protected at all?

More Details

156 Responses

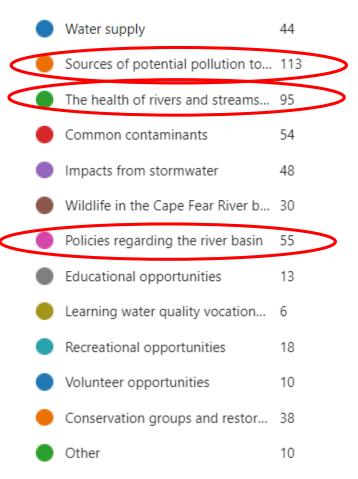


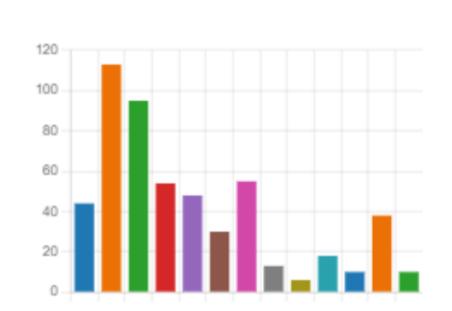
Response	s
I have rea	d them.
Decision	making tools and guidance for implementation
I use then	n in my work, land and water conservation.
Developn	nent planning.
As an ove teaaching	rview of the NC water resources. And I use it in my University
I am the (DRC for a Water Treatment facility in the Upper Cape Fear River Basin.
Planning	purposes for water quality improvement.
	evelop management strategies, ensure other agencies are aware of es and are working with us collaboratively to resolve them.
-	form advocacy efforts, prioritize stormwater retrofit and wetland n projects.

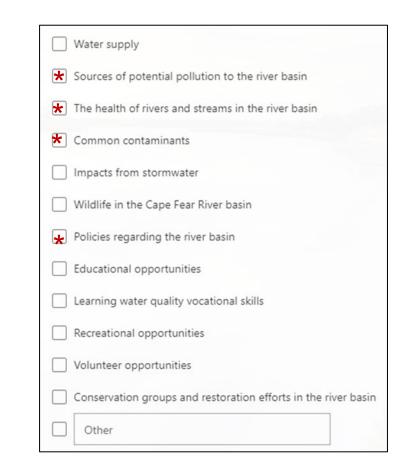


5. Which water related topics would you like to learn more about in regards to the Cape Fear River basin? Please pick your **top three**

More Details

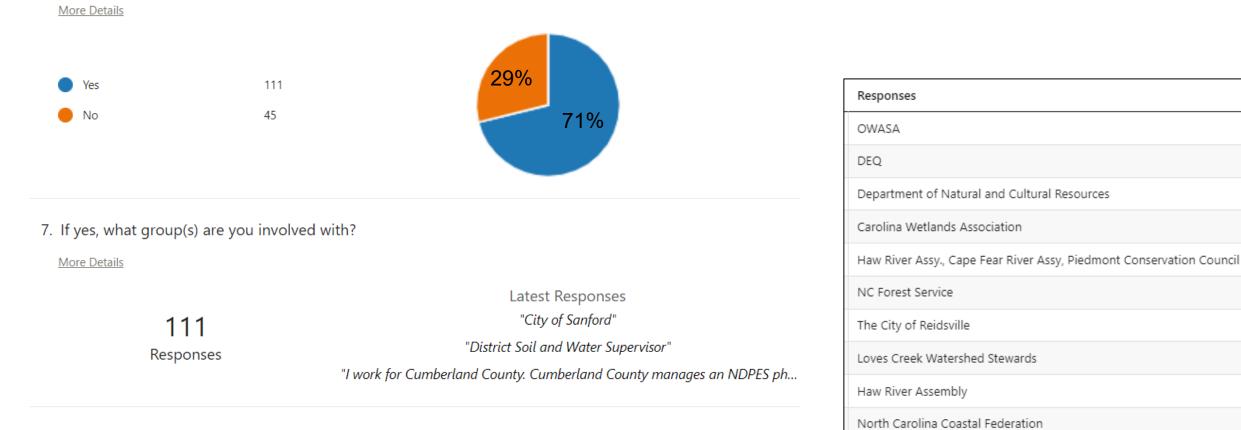








6. Are you affiliated with a group or community member who works to protect our natural resources?



8. Have you or someone you know completed a project or community effort to improve water quality or quantity? If possible, please provide details on the type of project, the successes, obstacles, and lessons learned from the project or effort.

More Details



Latest Responses
"We are developing projects that will implement improvements to landfill st...

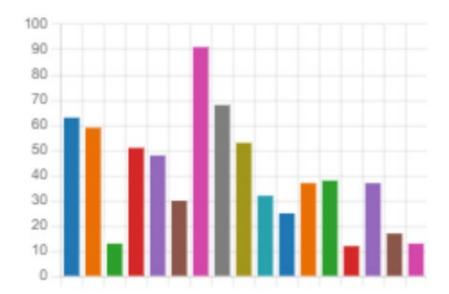


9. At DEQ, we understand the complex and changing issues surrounding emerging compounds (i.e., GenX, PFAS, 1,4-dioxane) and DWR will include relevant weblinks for more information in the upcoming basin plan, including DEQ's Emerging Compounds website (https://deq.nc.gov/news/key-issues/emerging-compounds). Besides emerging compounds, which of the following subjects are you most concerned about in regards to your water quality in the Cape Fear River basin? Please select your top three to five answers.

More Details

Aquatic habitat 63 Declining fisheries/shellfish 59 Sustenance (relying on the river ... 13 Animal agriculture 51 Algal blooms 48 Bacteria 30 Urban development and storm... 91 Wastewater infrastructure 68 Drinking water treatment 53 Groundwater resources 32 Drought 25 Flooding 37 Recreational use (swimming, wa... 38 Row crop or specialty agriculture 12 Nutrient Enrichment 37 Sea level rise 17

13



🛞 Aquatic habitat
😠 Declining fisheries/shellfish
 Sustenance (relying on the river as a primary food source)
🛞 Animal agriculture
Algal blooms
🔿 Bacteria
🛞 Urban development and stormwater
↔ Wastewater infrastructure
 Drinking water treatment
Groundwater resources
O Drought
O Flooding
 Recreational use (swimming, wading, fishing)
O Row crop or specialty agriculture
O Nutrient Enrichment
O Sea level rise



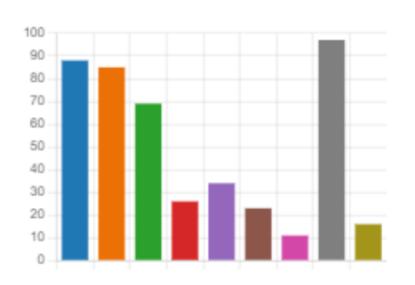
Department of Environmental Quality

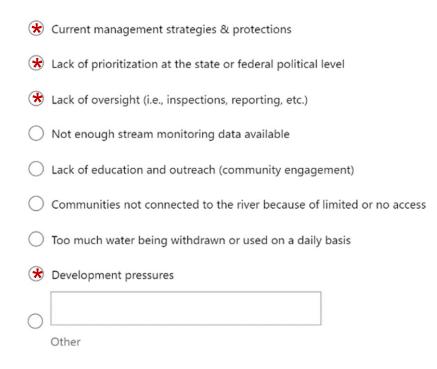
Other

10. Of the examples listed below, which do you view as the **top three** biggest challenges regarding water quality in the Cape Fear River basin?

More Details





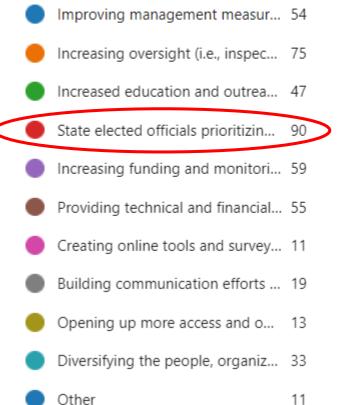




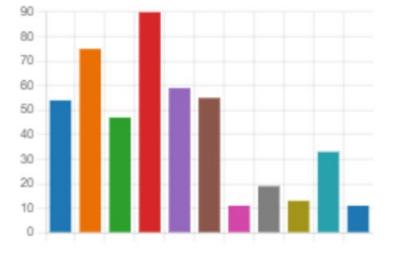
Department of Environmental Quality

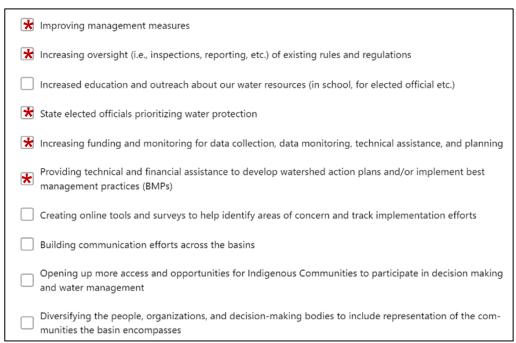
11. In your opinion, what are **three** ways the challenges you identified in question 9 can be addressed?

More Details



Other







12. A riparian buffer is an area adjacent to a stream, lake, or wetland that contains a combination of trees, shrubs, and/or other perennial plants. Riparian buffers are often managed differently from the surrounding landscape and play a key role in protecting our water resources. Would you support basinwide riparian buffers?



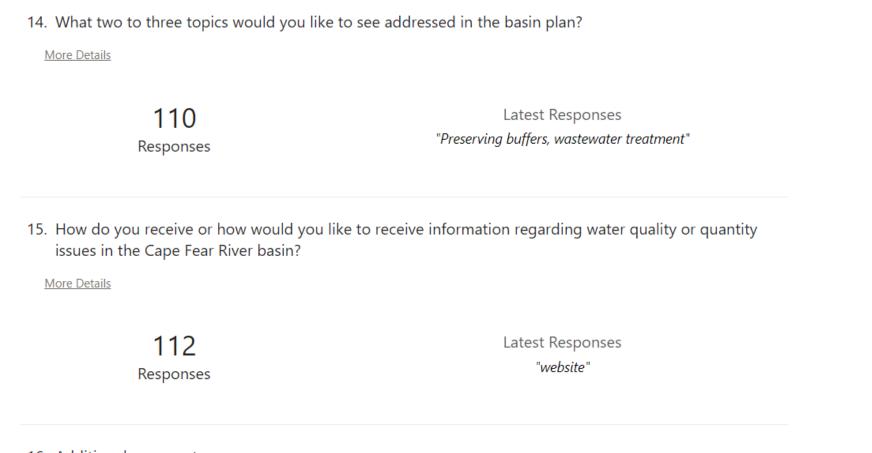
13. What information do you want the DWR river basin planners to know and/or consider while developing the river basin plan?

More Details

100 Responses

Give highest priority to a focus on water quality and eliminating industrial pollution from urban centers especially of the toxic organics with long lives





16. Additional comments

More Details

34 Responses The remaining amount of pollution from urban centers and via wastewater facilities from industrial plants is shocking as is the permitted growth of development that cannot be sustained without further serious degradation of water quality



17. We understand that your time is valuable and we appreciate any comments you make. Please leave your email below if you would like to receive follow-up information.



Cape Fear Basin webpage:

https://deq.nc.gov/about/divisions/wa ter-resources/water-planning/basinplanning/river-basin-plans/cape-fear

Primary Planner Contact: Nora Deamer <u>nora.deamer@ncdenr.gov</u>

- Link to the survey 🗗 (Microsoft Forms)
- Link to an informational flyer about the river basin (PDF)
- Link to the <u>framework</u> shared with members of CFRA (PDF)

Cape Fear Basinwide Water Quality Plans

- + 2022 Cape Fear River Basin Water Resources Plan
- + 2005 Cape Fear Basin Plan
- + 2000 Cape Fear Basin Plan
- + 1996 Cape Fear Basin Plan

Cape Fear Water Quantity Plans & Models

Cape Fear River Basin Water Supply Plan

Cape Fear - Neuse Combined OASIS Model

Cape Fear Basin Mailing List

To subscribe to DWR's Cape Fear River Basin email list to receive emails regarding public comment periods and public meetings related to the basin, please fill out the form below. Public participation in the development of the basin plan is encouraged.

10.00			
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Survey - https://forms.office.com/pages/responsepage.aspx?id=3IF2etC5mkSFw-zCbNftGURy0IHIs1dGgJ5QT3i27UBUQUZRUIAxVDU1V1ZSN0tTT1hSRDVCNjVaUyQIQCN0PWcu Framework – https://deq.nc.gov/water-resources/planning-section/basin-planning/bpbcape-fearframework-cfrajuly2022 Informational flyer - https://deq.nc.gov/water-resources/planning-section/basin-planning/bpbcape-fearinformational-flyerjuly2022



Department of Environmental Quality

Proposed - Cape Fear River Basin Plan Timeline

Cape Fear River Basin Plan Process	Due Date
Plan preparation and Stakeholder Outreach	2022
Internal Review Period	December 2022
Public Review	January 2023
Incorporate Changes	February 2023
Premeeting & WQC Materials	February 2023
WQC Meeting	March 2023
Premeeting & EMC Materials	April 2023
EMC Meeting	May 2023

Currently running a few months behind



Questions



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