

Planning Framework Overview

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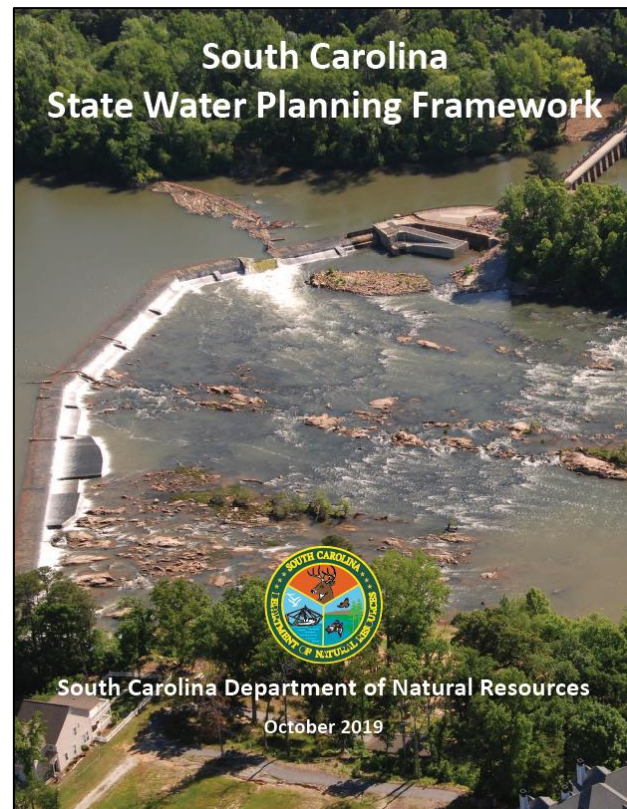
Broad River Basin Council – Meeting #2 (Hybrid)
Spartanburg Community College
April 14th, 2022

Contents of Planning Framework



Sections:

1. Executive Summary
 2. Introduction
 3. River Basin Planning Process
 4. Methodologies for Evaluating Water Availability
 5. River Basin Plan Table of Contents
 6. River Basin Planning Process Implementation
 7. River Basin Plan Implementation
 8. State Water Plan
- Appendix: River Basin Council Bylaws



Planning Framework is available for review and download at:

<http://hydrology.dnr.sc.gov/state-and-river-basin-planning.html>



Section 2. Introduction



Describes:

- Purpose and importance of state and river basin planning.
- Role of State Water Planning Process Advisory Committee (PPAC).
- Guiding principles.
- Regulatory framework.

Much of this information was presented at the first Council meeting.

Planning framework:

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 - 2. Introduction**
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Section 3. River Basin Planning Process



Describes:

- *How* the River Basin Plan will developed.
- The roles and responsibilities of:
 - River Basin Councils
 - State and Federal Agencies
 - Contractors
 - PPAC
- Stakeholder/public participation.
- Coordination with other planning bodies and committees.

Planning framework:

1. Executive Summary
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 - 3. *River Basin Planning Process***
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Section 4. Methodologies for Evaluating Water Availability



- Describes:
 - Hydrologic models used to evaluate water availability.
 - Four scenarios for RBC evaluation.
 - Approach to evaluating water management strategies.
- Defines:
 - Surface and Groundwater Availability.
 - Surface and Groundwater Shortage, etc.
- A future RBC meeting will cover this section in more detail.

Planning Framework:

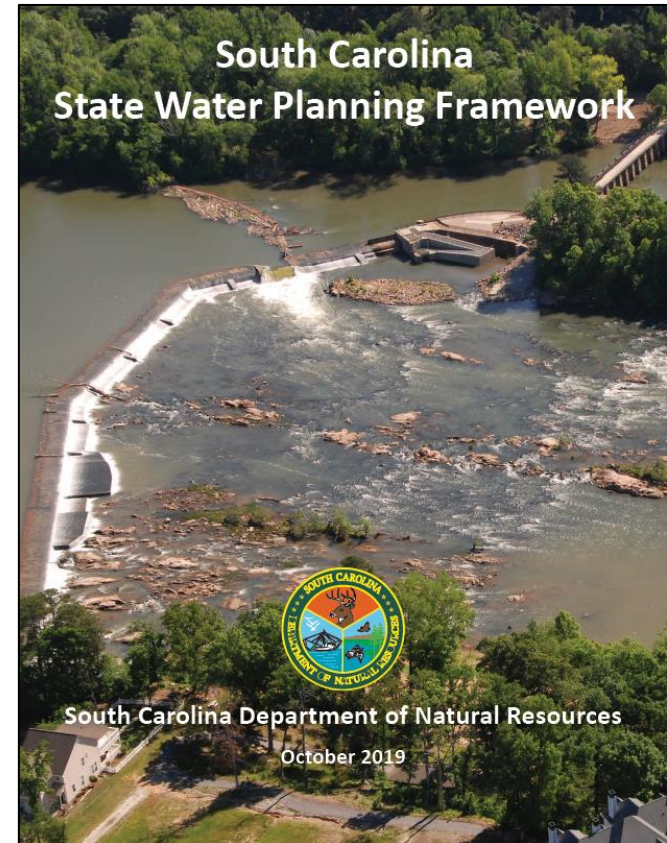
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Methods for Evaluating Water Availability



- Based, in part, on methodologies used in Texas for evaluating water availability.
- Provides consistency – designates a common set of definitions and processes to use across the State.



Big Picture – this is a gap analysis, the RBC will be determining where and when demand exceeds supply under varying demand scenarios and deciding how to manage water to close the gaps.



Surface Water-Demand Scenarios



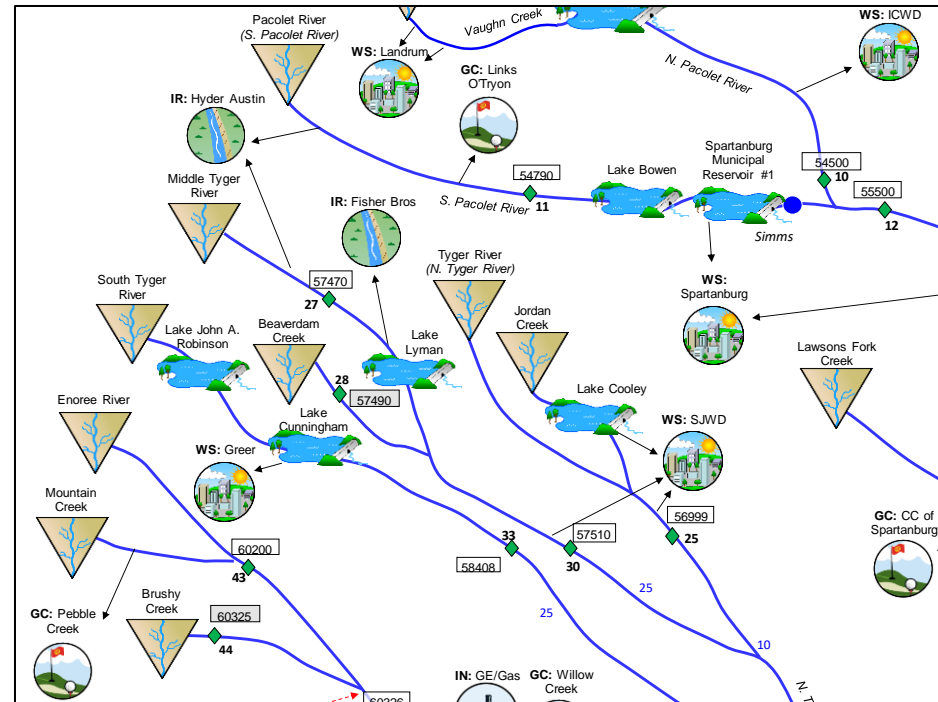
- Planning Framework requires four scenarios to be reviewed by each River Basin Council:
 1. Current Surface Water Use
 2. Permitted and Registered Water Use Scenario
 3. Business-as-Usual Water-Demand Projection
 4. High Water-Demand Projection
- Scenarios focus on “water demand” side as opposed to “water supply” side.
- Additional water demand scenarios can be recommended by the RBC:
 - Based on different assumptions used in existing projections (more aggressive growth rates, for example).
 - New water-demand projection scenarios must be submitted to SCDNR in writing by the RBC for consideration.



Broad Surface Water Model (SWAM)



- Simplified Water Allocation Model (SWAM)
- Originally completed in 2017
- Updated in 2021:
 - Inflow period of record extended through 2019.
 - Added new permits and registrations.
 - Removed inactive users.
- Updated model is available on the SCDNR website.



SWAM is a decision-making tool used to assess surface water availability and management strategies, and will support the development of River Basin Plans

<http://hydrology.dnr.sc.gov/surface-water-models.html>



Technical Advisory Committees



- Planning Framework calls for permanent Groundwater and Surface Water Technical Advisory Committees.
- Purpose: to provide the State agencies and River Basin Councils with technical assistance and support during the development of River Basin Plans and the new State Water Plan.
 - Advise state agencies on any new data, model revisions or extensions, and alternative modeling platforms that could be used for planning purposes.
 - Approve the use of supplemental modeling platforms in the planning process.
 - Advise RBCs on model scenarios and assist in the interpretation of modeling results.
- Primarily serves as a “reactive” body as opposed to “proactive”.
 - TACs respond to technical questions/issues that arise in the planning process as needed.



Section 5. River Basin Plan Table of Contents



- Provides a detailed description of the “*minimum requirements*” for each Chapter.
- RBCs should generally adhere to this organization structure.
- Some discretion to include additional information not explicitly stated in the Planning Framework.

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5. *River Basin Plan Table of Contents*

6. River Basin Planning Process Implementation
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Section 5. River Basin Plan Table of Contents



1. Introduction
2. Description of the Basin
3. Water Resources of the Basin
4. Current and Projected Water Demand
5. Comparison of Water Resource Availability and Water Demand
6. Water Management Strategies
7. Water Management Strategy Recommendations
8. Drought Response
9. Policy, Legislative, Regulatory, Technical and Planning Process Recommendations
10. River Basin Plan Implementation



Section 6. River Basin Planning Process Implementation



- Four Phases of Plan Development:
 - Phase 1 – orientation, administrative aspects, background information.
 - Phase 2 – technical analyses used to assess water availability.
 - Phase 3 – analysis of water management strategies.
 - Phase 4 – preparation of draft and final River Basin Plans incorporating final water management strategies and other recommendations.
- RBC responsible for submitting progress reports after each major phase.

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Appendix: River Basin Council
Bylaws



Section 7. River Basin Plan Implementation



- River Basin Plans are not intended to be static documents.
- The River Basin Plan is required to have a 5-year ***Implementation Plan*** (Chapter 10 of the River Basin Plan):
 - Objectives – based on recommended water management strategies and other recommendations.
 - Schedule.
 - Budget.
- RBCs required to meet annually but frequency dependent on objectives and available funding.
- Implementation challenges/considerations:
 - Funding.
 - Broader stakeholder buy-in.
 - No regulatory authority.



Section 8. State Water Plan



- Contingent upon completion of 8 River Basin Plans.
- Major content includes:
 - A summary of legislative, policy, process, and program recommendations regarding the State's water resources documented in the River Basin Plans.
 - A summary of each River Basin Plan's water availability analyses and conclusions.
 - An evaluation of statewide trends in water use and availability.

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Appendix: River Basin Council Bylaws



SCDNR Hydrology Section Website



Water Planning

The SCDNR Hydrology Section is responsible for formulating and establishing a comprehensive water resources policy for the state of South Carolina.

Overview

The South Carolina Department of Natural Resources (SCDNR) is legislatively mandated through the South Carolina Water Resources Planning and Coordination Act (S.C. Code, Title 49, Chapter 110, et. seq., Code of Laws of South Carolina, 1976) to formulate and establish a comprehensive water resources policy or water plan for the State. The first edition of the South Carolina **Water Plan** was published in 1981, and was subsequently updated in 2014 to incorporate experiences and knowledge gained from the severe statewide drought of 1999-2007. The 2014 Water Plan highlighted the need for water planning on a regional level.

In 2019, SCDNR published the South Carolina State Water Planning Framework Planning Framework under the guidance of the Planning Process Advisory Committee (PPAC). The Planning Framework describes the process of developing regional water plans, now formally called River Basin Plans, that will support the development of a new State Water Plan. River Basin Plans will be developed for the eight major river basins in the State – Broad, Catawba, Edisto, Pee Dee, Salkehatchie, Santee, Savannah, and Swainson. To support the development of the River Basin Plans, hydrologic models have been developed for both the State's surface water and groundwater resources and will be used along with water demand projections to assess current and future water availability in the State.

Public Notice: Two Public Meetings I have Been Scheduled for March 21st and 22nd to Kick-off Pee Dee River Basin Planning Activities.

For more information including time and location visit the [Pee Dee Basin Planning](#) page.

State and River Basin Planning Framework

Edisto Basin Planning | **Broad Basin Planning** | **Pee Dee Basin Planning** | **Water Demand Projections**

<http://hydrology.dnr.sc.gov/water-planning.html>

Broad Basin Planning

Activities and reports on water planning in the Broad River basin.

Overview

River basin planning activities in the Broad basin have recently been initiated under the guidance of the [South Carolina State Water Planning Framework](#). Two public meetings were held on November 6th in Columbia, SC and on November 8th in Spartanburg, SC to kick-off planning activities ([see below for meeting agendas and video recordings](#)). An overview of the South Carolina State Water Planning Framework was provided and applications to serve on the Broad River Basin Council are currently under solicitation. Public Council meetings are scheduled to begin in early 2022. Please visit this website for periodic updates and new information regarding Broad River basin planning activities.

First Broad River Basin Council meeting (agenda) scheduled for March 3rd, 2022 at Spartanburg Community College's Tyger River Campus (1875 E. Main St., Duncan, SC 29334). The Council will meet in-person. The meeting may be attended virtually as well. Please contact Scott Hender (shender@dnr.sc.gov) for virtual meeting access information.

SCDNR is currently accepting applications for the Local Government, Industry and Economic Development, and Water-based Recreation interest categories.

[Download Application](#)

Broad Basin Planning Meetings | **Broad River Basin Council** | **Broad SWAM Model Access**

Broad Planning News

- [First Broad River Basin Council Meeting Scheduled for March 3rd, 2022](#)
- [Public Meeting Scheduled for November 8th and 6th to Kick-off Broad River Basin Planning Activities](#)

View more news.

Hydrology Calendar

Upcoming events

- [First Broad River Basin Council Meeting](#)
Thursday March 3, 2022 from 9:00AM - 12:00PM
Spartanburg Community College's Tyger River Campus (In-person)

<http://hydrology.dnr.sc.gov/broad-basin-planning.html>

Site will host:

- Announcements/Calendar of Events
- Access to water planning documents – Planning Framework, technical reports
- RBC meeting materials – agendas, presentations, recordings