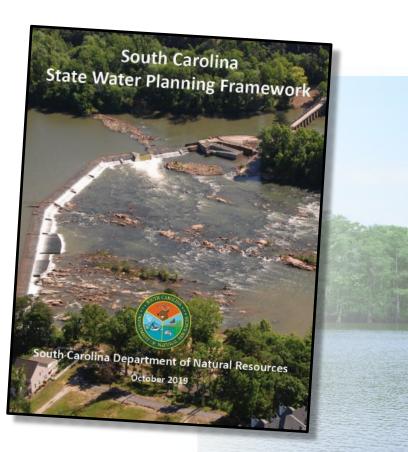
### Update on Pee Dee Plan Development

#### Pee Dee River Basin Council

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#### **Chapter Content**

Background

-Planning Process

 Mission Statement, Vision, and Goals

-Public Participation

-Previous Water Planning Efforts

#### **Chapter Content**

- Physical Environment
  Climate
  Natural Resources
  - -Agricultural Resources
  - -Socioeconomic Environment

## **Review Expectations**

- RBC review period is 3 weeks
- Chapter subcommittees and SCDNR has already provided feedback
- Review by RBC members should identify:
  - Missing information or concepts
  - Information or statements that would make RBC approval difficult
- Two ways to provide feedback
  - Use Adobe PDF mark-up tools and email chapter back
  - Type comments into an email

#### **Chapter Content**

-Surface Water Management Strategies

-Groundwater Management Strategies

For each strategy:

- Description
- Technical evaluation
- Feasibility
- Cost-benefit

| <b>Demand Strategies</b>      | Example Practices  |
|-------------------------------|--|
| Municipal<br>Conservation     | <ul> <li>Water loss control programs</li> <li>Low flow fixtures, toilets and appliances</li> <li>Pricing structures (ex. increasing block rates)</li> <li>Xeriscaping</li> </ul>   |
|                               |  |
| Ag/Irrigation<br>Conservation | <ul> <li>Water audits and center pivot sprinkler retrofits</li> <li>Dammer dikers Vendor-specific technology</li> <li>Cover cropping, conservation tillage, mulch</li> <li>Soil Moisture sensors/smart irrigation</li> <li>Crop selection Crop selection is market-driven</li> <li>Irrigation scheduling Needs to be done right to be effective</li> <li>Drip/Trickle irrigation (for select crops)</li> </ul> |

| <b>Demand Strategies</b>       | Example Practices  |
|--------------------------------|--|
| Industrial<br>Conservation     | <ul> <li>Water reuse and recycling</li> <li>Water efficient processes</li> <li>Water loss control</li> <li>Low flow fixtures, toilets, and appliances</li> </ul>   |
| Thermoelectric<br>Conservation | <ul> <li>Solar power could offset need for more thermoelectric generation. But what are the net effects of clearing areas for solar farms?</li> <li>Reclaimed water</li> <li>Switch to combined-cycle natural gas</li> <li>Energy saving appliances (which reduces thermoelectric generation needs)</li> </ul> |

Supply Strategies

#### **Example Practices**

|     | New or Increased<br>Storage | <ul> <li>New impoundments, ponds, reservoirs, tanks</li> <li>Dredging (pond deepening)</li> <li>Reservoir expansion (raising dam height)</li> <li>Aquifer storage and recovery</li> </ul> |
|-----|-----------------------------|---|
|     | Water<br>Reclamation        | <ul> <li>Water reuse systems (non-potable)</li> <li>Direct potable reuse</li> <li>Stormwater capture and treatment</li> </ul>   |
| Bro | Conjunctive Use             | Using groundwater to augment surface water<br>during low flow periods     Is this economically feasible?<br>Can surface water be used to<br>intentionally recharge the aquifer?           |

Supply Strategies Example Practices

| Conveyance   | <ul> <li>Regional water systems</li> <li>Utility interconnections</li> <li>Interbasin transfers</li> </ul> |
|--------------|--|
|              |  |
| Desalination | Treatment of brackish groundwater  |

Desalination of seawater

# Potential Policy Recommendations that were Discussed in August

- A South Carolina / North Carolina water management group could be beneficial
- Additional monitoring and analysis of water issues in high-growth, coastal zones
- Regional planning and cooperation could help spread the workload for capacitylimited local governments
- Should drought management plans be required or encouraged for agriculture and industry?
- Update current municipal drought management plans

## Thank you.

**Questions?** 



Brown AND Caldwell