

Charlotte Water Interbasin Transfer (IBT) Modification Request

PLEASE WAIT FOR THE MEETING TO BEGIN

THIS MEETING IS BEING RECORDED

ALL MEETING MATERIALS INCLUDING RECORDING, SLIDES, AND COMMENTS WILL BE POSTED ONTO THE WEBSITE FOLLOWING THE MEETING: Charlotte WaterIBT.org

What is this meeting about?

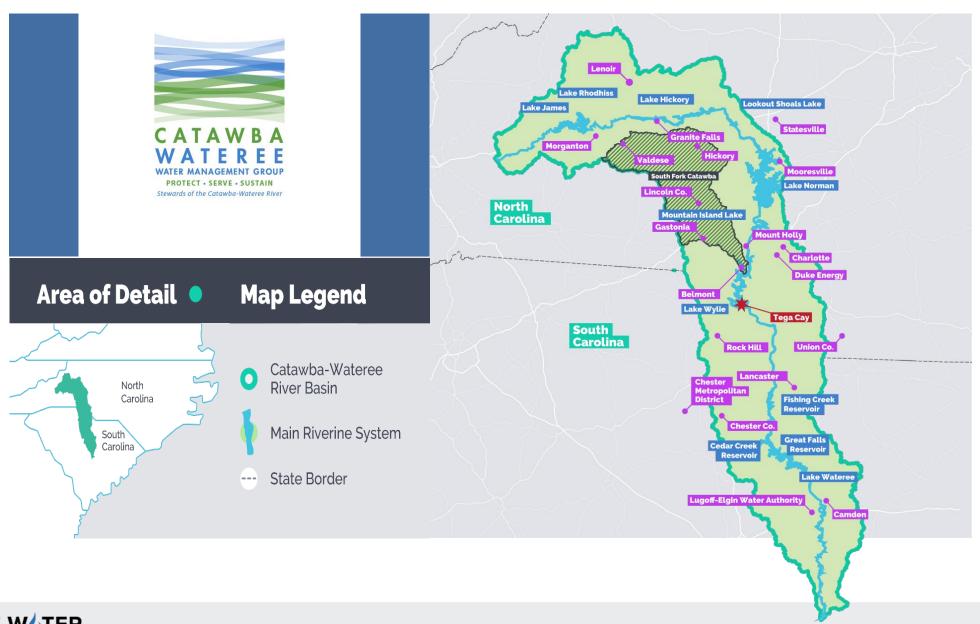
- Notify the public about our potential request to transfer more water from the Catawba River to the Rocky River in the future
- ► Charlotte Water is **not** asking for permission to *withdraw* more water from the Catawba River
- ► We **are** exploring the need to increase the amount of water we are allowed to *transfer* to the Rocky River Basin



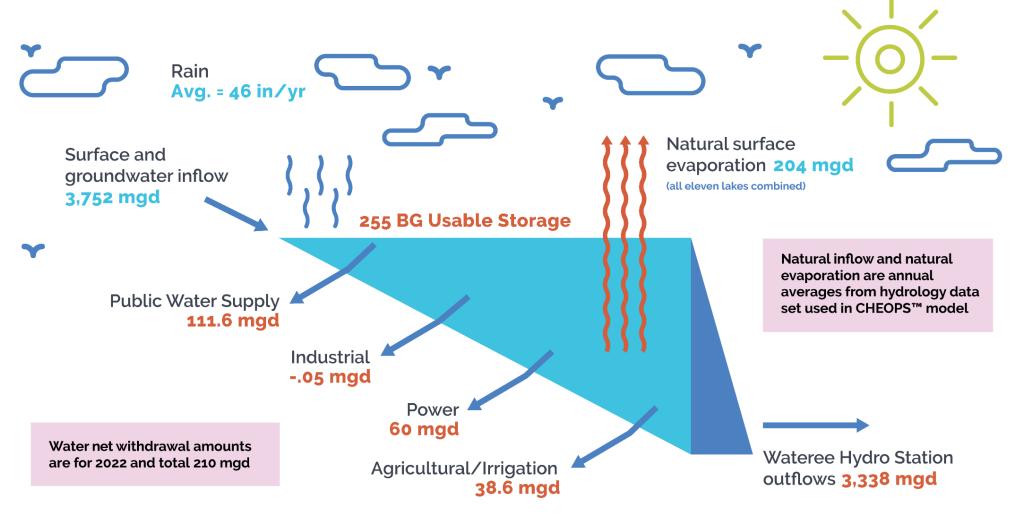
About this request?

- ▶ The preliminary analysis suggest up to a transfer of an additional 30 million-gallons-per-day (MGD) which would be less than a 1% of the flow through the Catawba-Wateree system on a daily basis
- ► The modeling of the Catawba-Wateree system was developed by Duke Energy in 2006 for the FERC relicensing process
 - Demand projections through 2058 were included in that model for water withdrawals
 - Local water supply plans for NC and SC communities were included in projections
 - Future growth and potential for IBT increases in several reservoirs were forecasted, including Charlotte's
- ► Charlotte's potential request is within modeled projections
- ► CWWMG is currently updating the model through 2075

https://catawbawatereewmg.org/our-work/water-resources-plan



The Lakes and Partnerships Help Rainfall Drive the System



^{*} mgd = million gallons per day; BG = Billion Gallons.

Agenda

▶Introductions

Angela Charles, Director Charlotte Water

▶Opening Remarks

• Rob Devlin, South Carolina Department of Health & Environmental Control, Bureau of Water

▶IBT Program Overview

 Linwood Peele, North Carolina Department of Environmental Quality, Division of Water Resources

▶ Charlotte Water IBT Modification Request

• Ron Hargrove, Deputy Director Charlotte Water

Questions/Comments





IBT Program Overview

Public Meetings for Requested Charlotte Water IBT Modification May 8, 9,15 / June 25, 27 / July 15, 29, 2024 Linwood Peele, Division of Water Resources



Outline

- I. Interbasin Transfer (IBT) Definition
- II. Statutory Requirements
- III. IBT Process
- IV. EMC Decision Considerations



IBT Definition & Purpose

- The withdrawal of <u>surface water</u> from one river basin and discharge of all or any part of the water in a river basin different from the origin.
- The purpose of the Interbasin Transfer Law is to ensure it is good public policy to move water from one river basin into another.



Statutory Thresholds

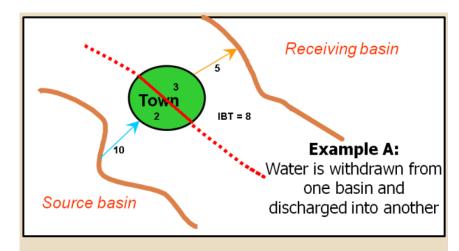
§ 143-215.22L Regulation of surface water transfers.

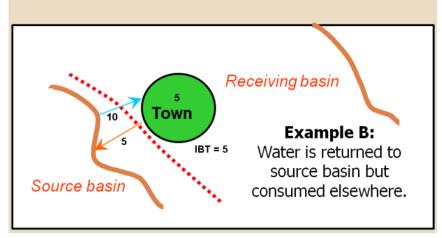
- (a) Certificate Required. No person, without first obtaining a certificate from the Commission, may:
 - 1. Initiate a transfer of 2,000,000 gallons of water or more per day, calculated as a daily average of a calendar month and not to exceed 3,000,000 gallons per day in any one day, from one river basin to another.
 - 2. Increase the amount of an existing transfer of water from one river basin to another by twenty-five percent (25%) or more above the average daily amount transferred during the year ending 1 July 1993 if the total transfer including the increase is 2,000,000 gallons or more per day.
 - 3. Increase an existing transfer of water from one river basin to another above the amount approved by the Commission in a certificate issued under G.S. 162A-7 prior to 1 July 1993.



What is an Interbasin Transfer?

- Transfer = Withdrawal Return
 - <u>Net</u> Transfer, Not <u>Gross</u>

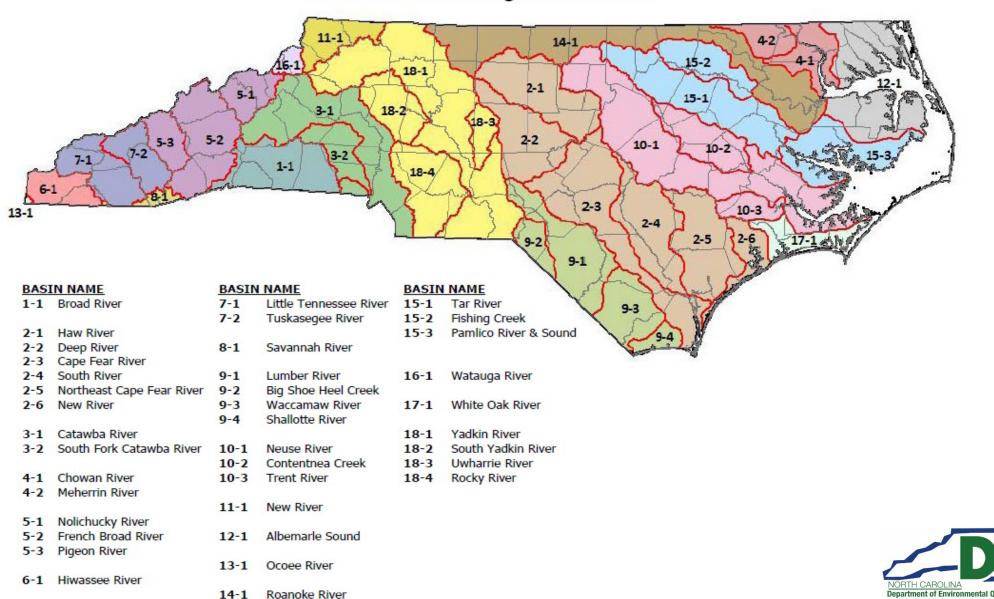




The amount of a transfer is determined by the amount of water moved from the source basin to the receiving basin, less the amount of water returned to the source basin and consumptive use in the source basin.



Designated Interbasin Transfer River Basins As defined in G.S. §143-215.22G



Water Transfers in North Carolina

- Over 130 public water systems with surface water transfers
- •80% are under 1 MGD
- Nine IBT Certificates have been issued
- One previous IBT Certificate Modification has been granted
- Grandfathered allowance for systems that were transferring over 2 MGD prior to July 1993
- Handful of water systems transferring between 1-2 MGD



Transfers Regulated by IBT Certificate

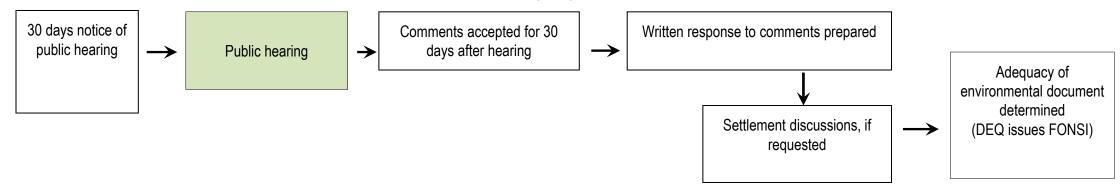
	System/Certificate Holder(s)	Year	Amount	Source Basin(s)	Receiving Basin(s)
1.	Piedmont Triad Regional Water Authority	1991	30.5 MGD	Deep River	Haw River, Yadkin River
2.	Charlotte Water	2002	33 MGD	Catawba	Rocky River
3.	Cities of Concord and Kannapolis	2007	10 MGD/ 10 MGD	Catawba/ Yadkin	Rocky River
4.	Greenville Utilities Commission, the Towns of Farmville and Winterville, and Greene Co.	2010	8.3 MGD/ 4.0 MGD	Tar River	Contentnea Creek/ Neuse River
5.	Brunswick County	2013	17 MGD	Cape Fear	Shallotte and Waccamaw
6.	Towns of Cary and Apex	2015	31.0 MGD/ 2.0 MGD	Haw River	Neuse River/ Cape Fear River
7.	Kerr Lake Regional Water System	2015	10.7 MGD/ 1.7 MGD/ 1.8 MGD	Roanoke	Tar River/ Fishing Creek/ Neuse River
8.	Union County and Town of Wingate	2017	23.0 MGD	Yadkin River	Rocky River
9.	Pender County Utilities and Towns of Burgaw, Topsail Beach, Surf City and Wallace and Utilities, Inc.	2018	14.5 MGD	Cape Fear	South River, New River, Northeast Cape Fear



IBT Process § 143-215.22L(v)

I. Applicant submits Notice of Intent to file a request for modification.

II. Applicant submits draft environmental document (EA)



III. EMC issues final determination



EMC Decision Considerations

• The EMC may grant a Petition in whole or in part, or deny it, and may require mitigation measures to minimize detrimental effects.

• In making this determination, the EMC is required to specifically consider:



Findings of Fact - §143-215.22L

The EMC shall specifically consider:

- 1. The <u>necessity</u>, <u>reasonableness</u>, <u>and proposed uses</u> of water transferred.
- 2. Present and reasonably foreseeable detrimental effects on the <u>source</u> basin.
- 3. Cumulative effects on the <u>source</u> major river basin of any water transfer or consumptive water use currently authorized or projected in a Local Water Supply Plan.
- 4. Present and reasonably foreseeable beneficial and detrimental effects on the <u>receiving</u> basin.
- 5. The availability of reasonable <u>alternatives</u> to the proposed transfer.
- 6. Use of impoundment storage capacity, if applicable.
- 7. Purposes and water storage <u>allocations</u> in a US Army Corps of Engineers multipurpose reservoir.
- 8. Whether the <u>service area</u> of the applicant is within both the source and receiving basin.
- 9. Any other facts or circumstances reasonably necessary.



Conditions/Limitations on IBT Certificate

Specific conditions required by statute:

- Submittal for Division approval
 - Water Conservation Plan
 - Drought Management Plan
 - Compliance and Monitoring Plan
- Quarterly Monitoring Reports
- Ability to reopen, amend, and modify, if necessary
- No selling of transferred water to water systems that are not co-applicants on the Certificate

EMC may impose additional conditions as necessary



Contact Information

Linwood Peele Harold Brady

Division of Water Resources Division of Water Resources

919-707-9024 919-707-9005

<u>linwood.peele@deq.nc.gov</u> <u>harold.m.brady@deq.nc.gov</u>

DWR Charlotte Water IBT website:

https://www.deq.nc.gov/about/divisions/water-resources/water-planning/water-supply-planning/interbasin-transfer-certification/charlotte-water





Charlotte Water Interbasin Transfer (IBT) Modification Request

PUBLIC MEETINGS, MAY 8, 9, 15 / JUNE 25, 27 / JULY 15, 29 2024

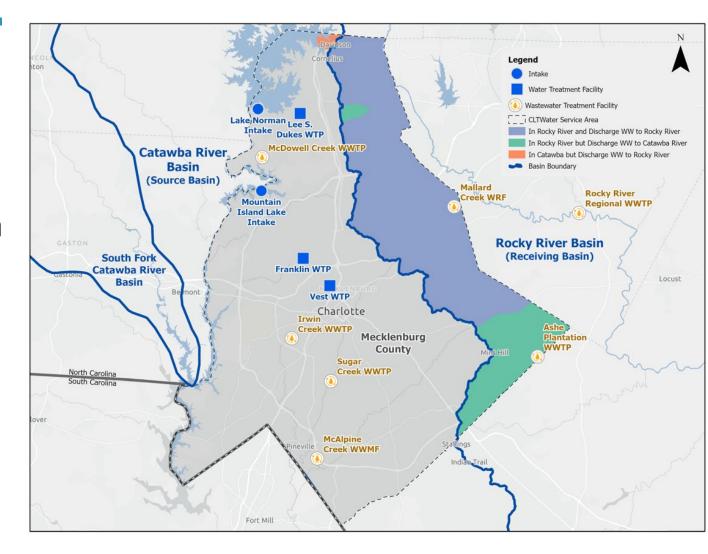
Presentation Outline

- ► About Charlotte Water
- **▶What is an IBT?**
- ► Why is an IBT modification needed now?
- ▶ What is the IBT modification process and schedule?
- ► What alternatives are being considered?
- ► How can I comment and participate in the process?
- **▶** Questions

About Charlotte Water

About Charlotte Water

- Service Area includes
 Mecklenburg County and
 surrounding counties with
 customers in both Catawba
 & Rocky River Basins
- Largest public water and wastewater utility in NC
- ► Population Served 1,145,392



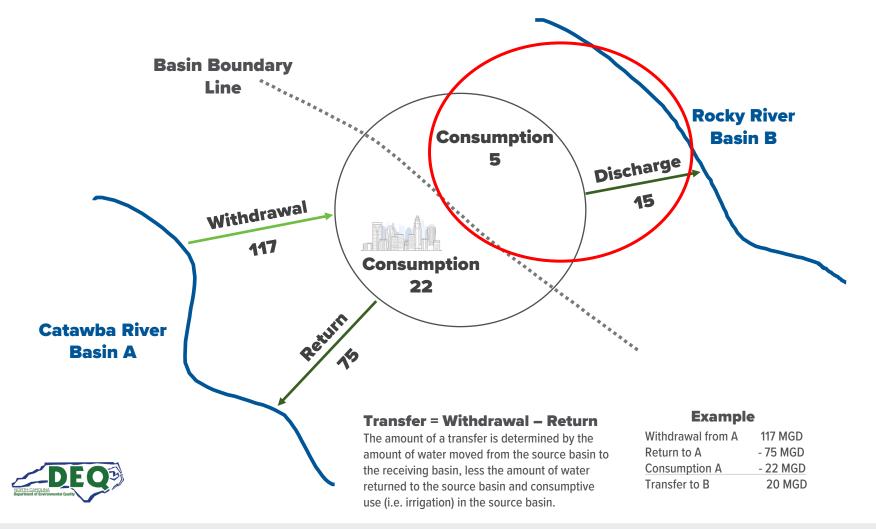
Proactive Planning

- ▶ 2002 Initial IBT of 33 MGD Peak Day
- Now planning for next 30 years before the limit is exceeded
- Long-term Partner with Catawba Wateree Water Management Group, Yadkin PeeDee Water Management Group and Other Stakeholders
- Local and Regional Conservation and Drought Planning

As projected, the original IBT supports Charlotte Waters system through approximately 2030. Additional water through the modification process is timely.

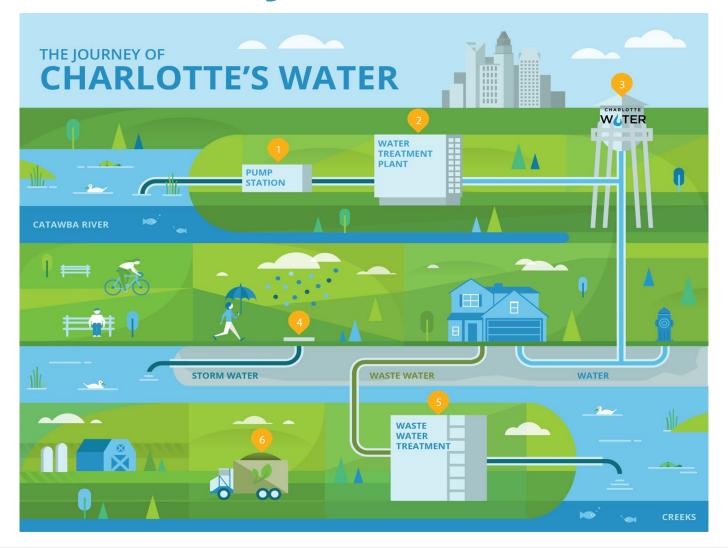
What is an Interbasin Transfer (IBT)?

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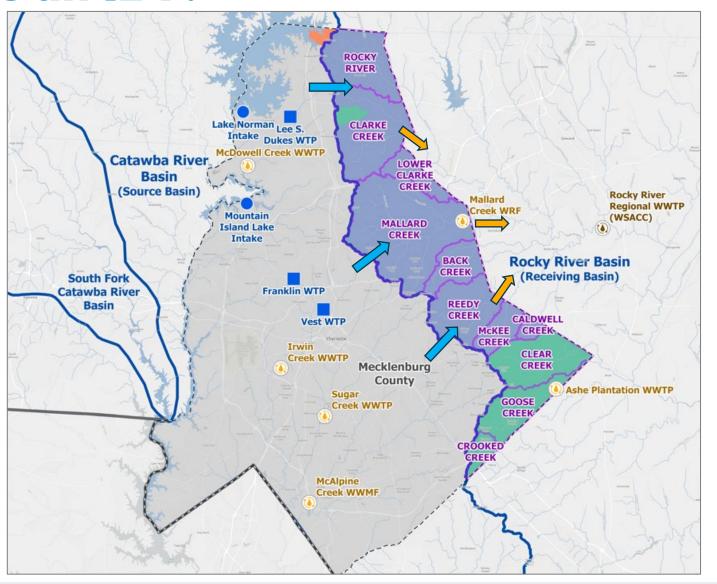


An IBT is avithdrawal, diversionor pumping of waterfrom one source riverbasin to another riverbasin. The water from the source basin isreated anddistributed to customers for everyday water usage,then collected andtreated at wastewatertreatment plantsbefore portions are discharged to the receiving basin, resulting in the interbasintransfer.

Charlotte's Water Cycle



What is an IBT?

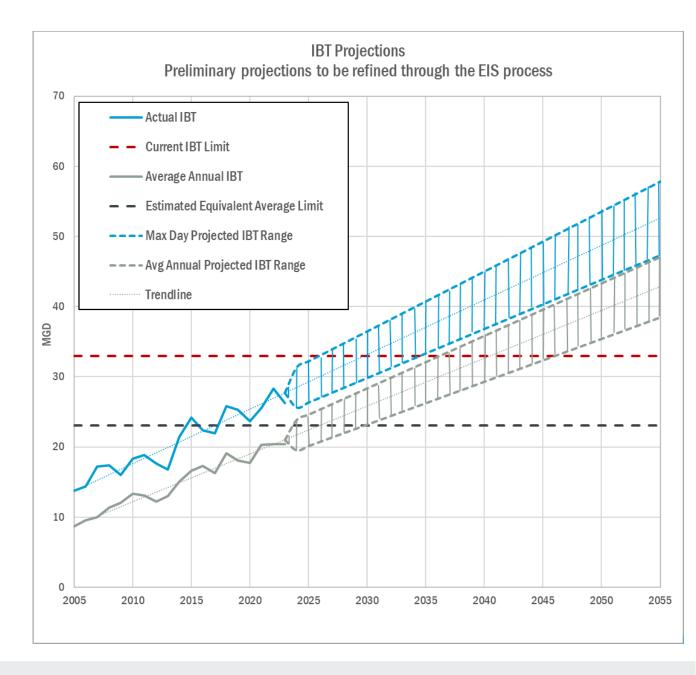


An IBT is a withdrawal, diversion or pumping of water from one source river basin to another river basin. The water from the source basin is treated and distributed to customers for everyday water usage, then collected and treated at wastewater treatment plants before portions are discharged to the receiving basin, resulting in the interbasintransfer.

Why is an IBT Modification needed now?

Why is an IBT Needed?

- ▶ 2002 IBT Certification limit is 33 MGD Peak Day
- ► Currently at 79% of limit
- Based on population projections, current IBT will be exceeded between 2028-2030 as previously planned



What is the IBT modification process and schedule?

IBT Modification and EIS Development Process

Preliminary Activities

- Notice of Intent and Notification of Public Meetings
- Public Meetings & Comment Period (ends 8/30/24)



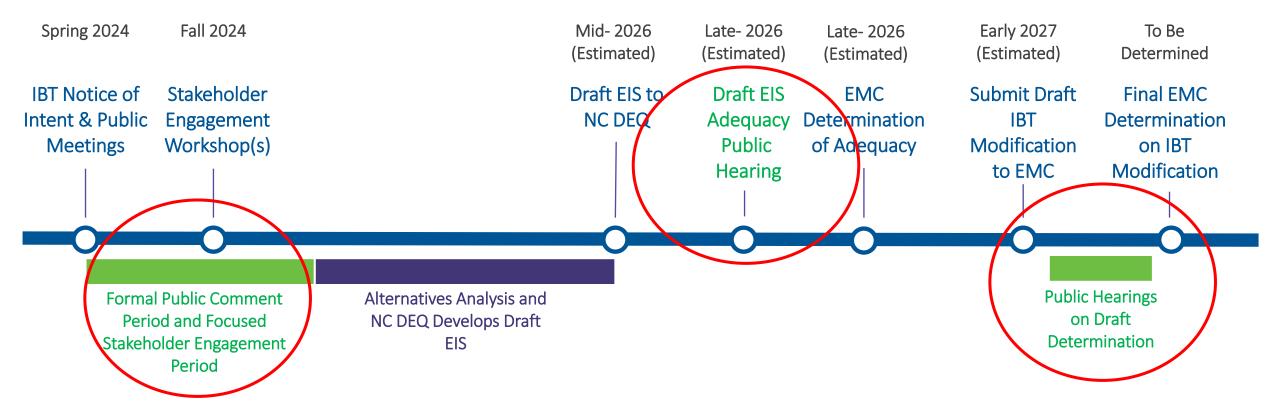
Prepare and Submit EIS in Coordination with DWR

- Extended Stakeholder Engagement and Input
 - Including SC Agencies & Stakeholders throughout the process
 - Incorporate and address public meetings comments
- Alternatives Analysis
- IBT studies demand, conservation, drought, monitoring
- NC DEQ Develops Draft Environmental Impact Statement (EIS)
- EMC Public Hearing and determination of adequacy of EIS
- CLT Water Submits IBT Modification Request to NC DEQ

IBT Modification Request and EMC Process

- EMC issues draft determination
- EMC Public Hearing on draft determination
- EMC Issues Final Determination on IBT

IBT Modification Preliminary Schedule*



*Coordination with SC DES Throughout

Acronyms:

EIS – Environmental Impact Statement

IBT – Interbasin Transfer

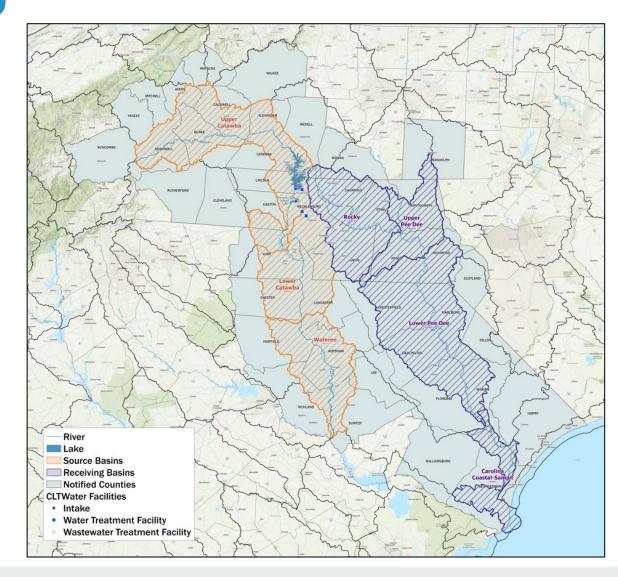
NC EMC – NC Environmental Management Commission

NC DEQ – NC Department of Environmental Quality



IBT Notification Map

- Notification Requirements Counties/Cities in Key HUC8 Watersheds
 - Governing body of each local government
 - Public water supply systems
 - IBT Certification holders
- NC-SC SettlementAgreement Notification List
- Other Identified Stakeholders
 - NGOs, Non-Profits, COGs, Tribal Governments, Industries, etc.



What alternatives are being considered?

Preliminary Alternatives

► Alternative Categories Being Considered

- Pump wastewater back to the Catawba Basin
- Water reuse options (potable and non-potable)
- New water sources in the Yadkin Basin
- Increase existing IBT through modification

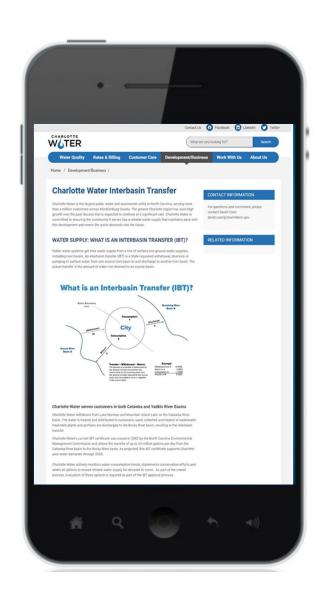
► Alternatives Evaluation Criteria

- Capital costs
- Schedule
- O&M costs
- Benefits/risks
- Environmental factors
- Construction feasibility
- ► Actionable alternatives raised during scoping will be considered
- ► Further refinement during EIS

How can I comment and participate in the process?

Ways you can learn and participate

- Attend public meetings
- ► To learn more visit: CharlotteWaterIBT.org
- ► Email comments to: IBTProject@CharlotteNC.gov
- Comment on the Draft EIS during the public hearing for determination of adequacy by Environmental Management Commission
- Comment during the Environmental Management Commission hearing on draft IBT determination
- Participate in stakeholder engagement workshops



Stakeholder Engagement Workshops

- ► Goal: Through meaningful stakeholder engagement, identify actionable alternatives to modifying IBT and evaluate such alternatives within the scope of the EIS
- Looking for stakeholders to represent key and diverse interests
- > Stakeholders will have the ability to shape the alternatives that will be considered
- **Logistics:**
 - Fall 2024
 - Professional facilitation
 - Multiple workshops
 - Meeting format in-person with virtual option
- Public outreach/engagement will also occur in parallel with Workshops
 - Stakeholder workshops will be live streamed
 - Latest information will be shared via IBT website

Public Meetings

For virtual Teams meeting information or to submit a comment/question, visit the Charlotte Water IBT website Charlotte WaterIBT.org

Meeting #1 – Hickory, NC

Wednesday, May 8, 5:30-7:00 pm Ridgeview Branch Library Z. Anne Hoyle Community Room 706 1st St. SW, Hickory, NC 28602

Meeting #2 – Charlotte, NC

Thursday, May 9, 6:00-7:30 pm Charlotte Water 4100 W. Tyvola Rd, Charlotte, NC 28208

Meeting #3 – Albemarle, NC

Wednesday, May 15, 5:30-7:00 pm EE Waddell Community Center Banquet Room 621 Wall St., Albemarle, NC 28001 Meeting #4 – Camden, SC

Tuesday, June 25, 6:00-8:00 pm Liberty Hall, Revolutionary War Visitor Center 212 Broad St., Camden, SC 29020

Meeting #5 – Florence, SC

Thursday, June 27, 6:00-8:00 pm Chapman Auditorium, Francis Marion University 4800 E. Heyward Dr., Florence, SC 29506

Meeting #6 – Hickory/Morganton, NC

Monday, July 15, 6:00-8:00 pm CoMMA Performing Arts Center 401 S. College St., Morganton, NC 28655

Meeting #7 – Rock Hill, SC

Monday, July 29, 6:00-8:00 pm Dutchman Creek Middle School 4757 Mt. Gallant Rd, Rock Hill, SC 29732

Questions or Comments?



Remember, this meeting is about:

- ▶ Our potential request to transfer more water from the Catawba River to the Rocky River in the future
- ▶ We are **not** asking for permission to *withdraw* more water from the Catawba River
- ▶ We **are** exploring the need to increase the amount of water we are allowed to *transfer* to the Rocky River Basin





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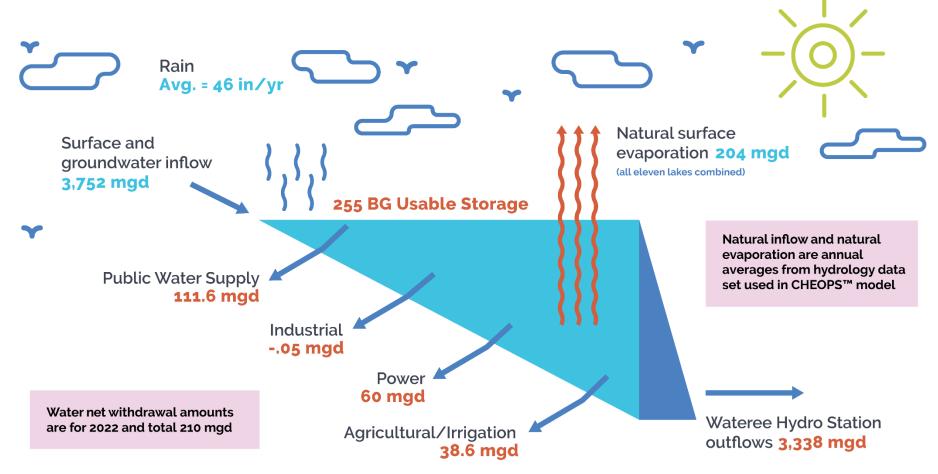
Bản dịch của tài liệu này có sẵn bằng cách gọi 311 hoặc 704-336-7600.

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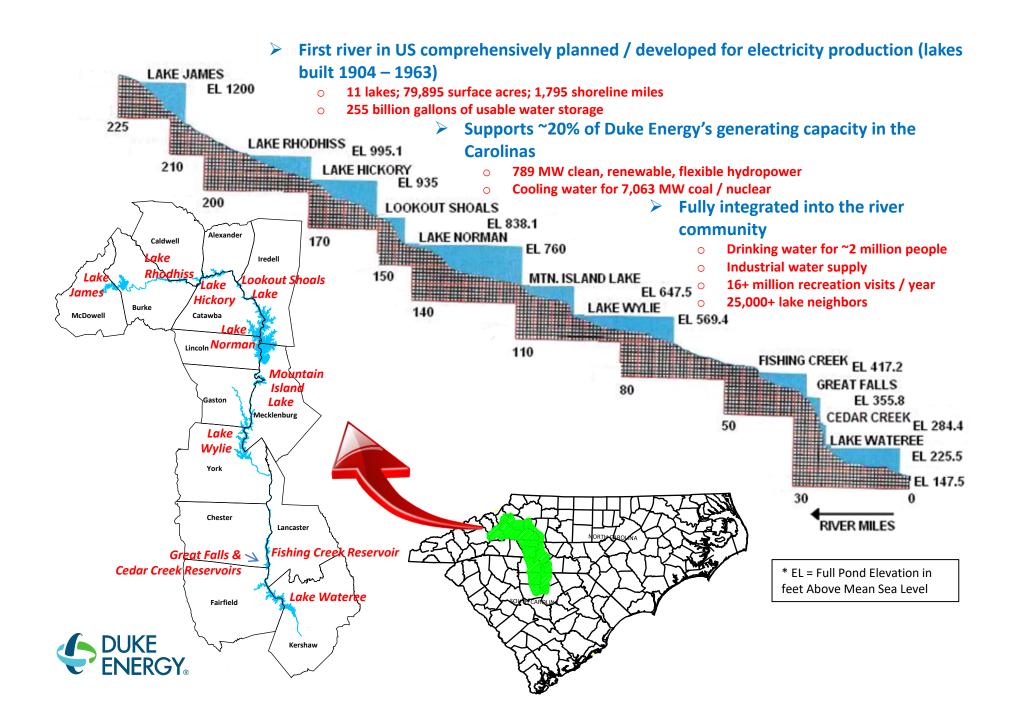
如需本文件的翻译,请致电 311 或 704-336-7600。

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The Lakes and Partnerships Help Rainfall Drive the System



^{*} mgd = million gallons per day; BG = Billion Gallons.



Catawba-Wateree **Hydro Project** A Hardworking River Lake Hickory (Flood gates 4,072 ac.) Lake Rhodhiss (No gates, 2,724 ac.) **Lookout Shoals Lake** (No gates, 1,155 ac.) (No gates, 6,754 ac.) Lake Norman A Usable water: Monitor lake levels: Island Lake Duke Energy continually monitors (No gates, 3,117 ac.) account for 65% of the usable water storage Drinking water for — Lake Wylie (Flood gates, 12,177 ab.) Operated as one system: Industrial water supply Lakes are managed as an . Over 16 million recreation integrated system, not for the benefit of a single lake . Over 25,000 lake neighbors Shared Resource = Shared Benefits and Shared Responsibility Fishing Creek Reservoir (Flood gates, 3,431 ac.) **Great Falls Reservoir** Length: (Pneumatic gates, 353 ac.) Cedar Creek Reservoir (Flood gates, 748 ac.) N.C. and five counties in S.C. Lake Wateree (Pneumatic gates, 13,025 ac.) DUKE ENERGY.

https://catawbawatereewmg.org/our-work/water-resources-plan

