

Proposed Kerr Lake Regional Water System Interbasin Transfer Certificate

Roanoke River Basin Bi-State Commission
Henderson, NC
December 18, 2014



Hot Topic



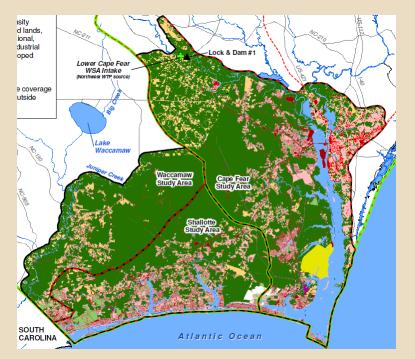
- IBT Discussions began in the 1950's.
- The NC General Assembly has made at least eight significant changes to the IBT Law since 1993.
- Six IBT Certificates have been issued.

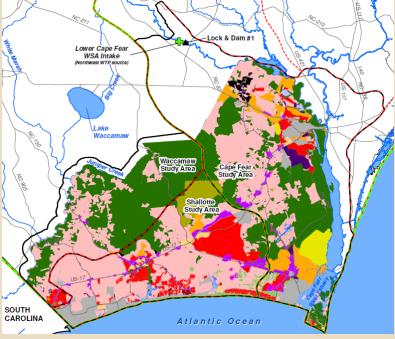
Outline

- IBT Basics
 - What is a transfer?
- KLRWS IBT Project
 - Description
 - Timeline
 - Statutory Process
- Final Decision = EMC

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.

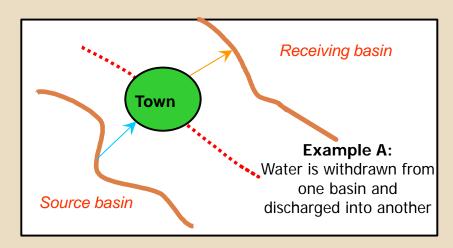


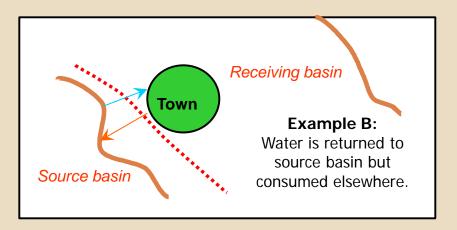




Simplified View of IBT

- Transfer = Withdrawal Return
 - Net Transfer, Not Gross





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.

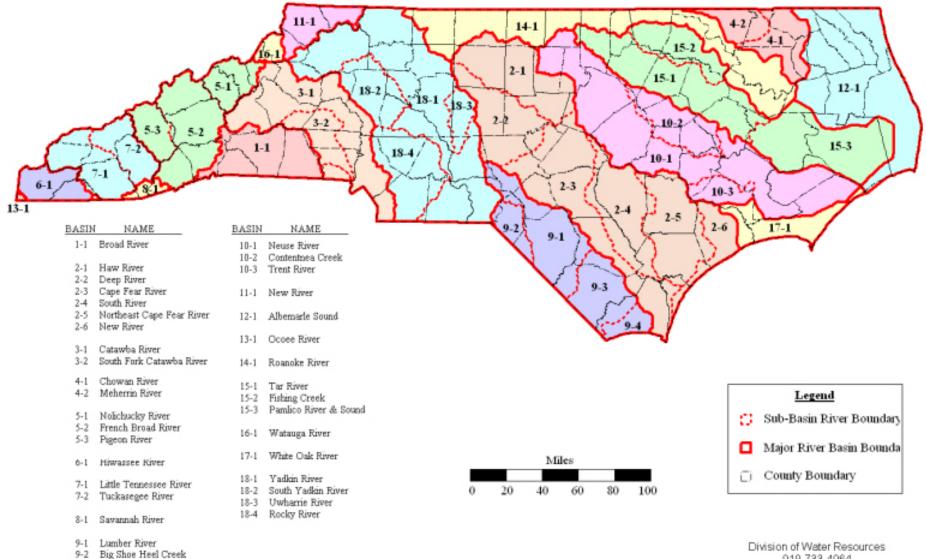
Statutory Thresholds for Certifications

- 2 million gallons per day (mgd) or more, calculated as a daily average of a calendar month.
 - Not to exceed 3 mgd maximum day.
- Increase the amount of an existing transfer (exceeding 2 mgd) by 25% or more above the average daily amount transferred as of July 1, 1993.
- Increase an existing/grandfathered transfer (exceeding 2 mgd) determined by the system capacity as of July 1, 1993.



9-3 Waccamaw River 9-4 Shallotte River

Major River Basins & Sub-Basins in North Carolina As defined in G.S. 143-215.22G



Division of Water Resources 919-733-4064

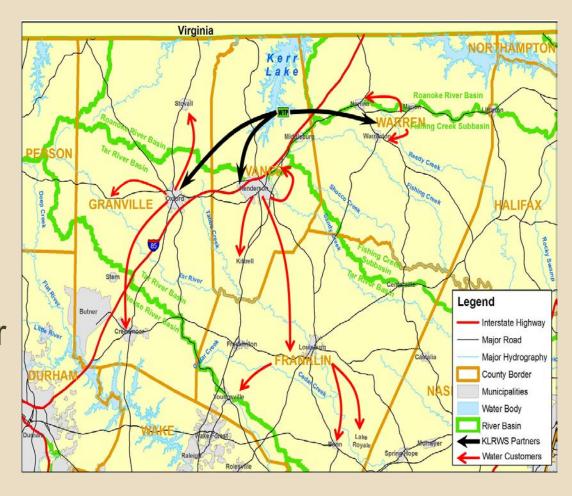


Proposed KLRWS IBT Description

Primary Applicant:	Kerr Lake Regional Water System	
Source Basin:	Roanoke	
Receiving Basins:	Tar, Fishing Creek, Neuse	
Grandfathered Allowance:	10 MGD	
Average Daily over Maximum Month IBT <u>request</u> is based on 2045 demand:		
Total Requested IBT:		14.2 MGD
Roanoke to Tar:		10.7 MGD
Roanoke to Fishing Creek:		1.7 MGD
Roanoke to Neuse:		1.8 MGD

Kerr Lake Regional Water System

- Primary Partners
 - City of Henderson
 - City of Oxford
 - Warren County
- City of Henderson operates WTP.
- Water sales to 15 additional communities/water users in Vance, Warren, Granville, and Franklin Counties



KLRWS & USACE

- KLRWS Agreements with USACE
 - 1974 water use agreement for up to 20 mgd
 - 2005 allocation of 10,292 acre-feet of storage
 - » Equivalent to 20 mgd average annual withdrawal
- USACE determined that there would be a slight reduction in the power generation
 - KLRWS is on an annual basis paying the USACE for water storage and power capability compensation
- Requested IBT is for utilization of the current USACE contracted amount.

There will be NO request to increase an allocation from John H. Kerr.



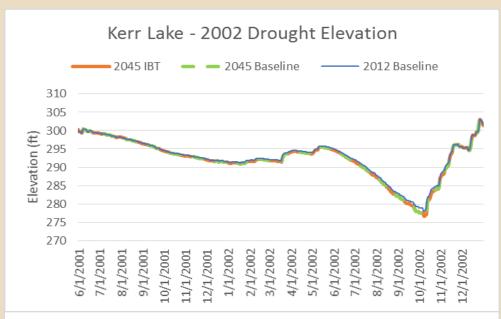
REALLOCATION REPORT

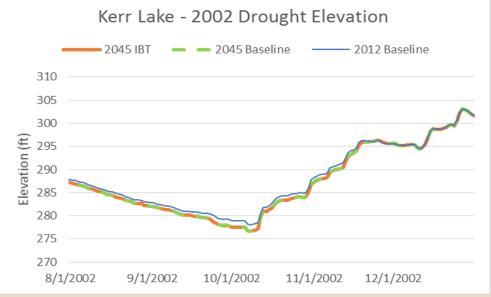
JOHN H. KERR RESERVOIR WATER SUPPLY STORAGE REALLOCATION REQUEST FOR THE CITY OF HENDERSON, NORTH CAROLINA

May 20

U.S. Army Corps of Engineers Wilmington District

Summary of Modeling Scenarios





- Reduction of initial projected demands and IBT
- USACE Allocation of 20 mgd not projected to be exceeded by 2060
- Modeled results show no impact of transfer
 - ✓ Lake levels during extreme drought
 - ✓ Low flow duration
 - √ Hydropower

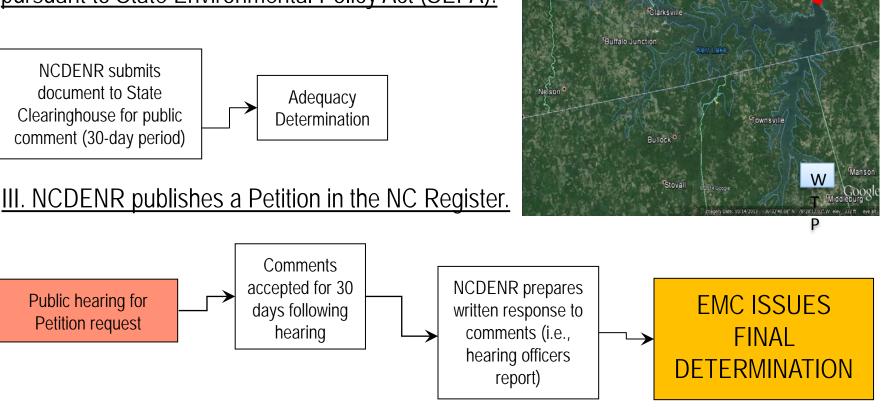


IBT Process § 143-215.22L.(w)

Requirements for Coastal Counties and Reservoirs Constructed by the United States Army Corps of Engineers

I. Applicant submits Notice of Intent to file a petition.

II. Applicant prepares environmental document (EA) pursuant to State Environmental Policy Act (SEPA).



Project Timeline

January 2009	NOI Submitted by KLRWS
March/April 2009	Series of Public Meetings
September 2014	Revision of Roanoke River Basin Hydrologic Model
October 2014	Draft EA submitted to DWR
January 2015	EA submitted for Public Comment
March 2015	Petition submitted for Public Comment
March/April 2015	Public Hearing for Petition
May 2015	Determination by EMC



Hearing Officer Recommendations Findings of Fact

- 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:
 - The <u>necessity</u>, <u>reasonableness</u>, <u>and beneficial effects</u> of transfer amount
 - Detrimental effects on the <u>source</u> river basin
 - The cumulative effect of uses on the source major river basin
 - Detrimental effects on the <u>receiving</u> basin
 - Reasonable <u>alternatives</u> to the proposed transfer
 - Use of <u>impounded storage</u>
 - Purposes and water storage <u>allocations</u> in a US Army Corps of Engineers multipurpose reservoir
 - Compare the <u>service area</u> of the applicant to the locations of both the source and receiving basins?
 - Any other facts or circumstances

Contact Information

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