



# Regional Resource Stewardship Council

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September 11-12, 2019  
Pickwick Pines Resort, TN



Mark Iverson

# Term 10 RRSC Members

**RaeLynn Butler**

Muscogee (Creek) Nation

**Keith Carnahan**

Meriwether Lewis Electric Cooperative

**Robert Englert, Jr**

Crouse Corporation

**Ray Hardin**

Decatur Utilities

**Richard Holland**

Packaging Corporation of America

**Donny Holland**

KY Parks

**Mark Iverson\***

Bowling Green Municipal Utilities

**Avis Kennedy**

State of Tennessee

**Kim Klinker**

Klinker Management

**Brad Kreps**

Nature Conservancy

**Whitney Lipscomb**

State of Mississippi

**Tom Littlepage**

Ala Dept. of Economic & Community  
Affairs

**Gary Myers**

State of Tennessee

**Will Nelson**

Nelson Tractor Co.

**Sen. Clay Scofield**

Alabama Senate, District 9

**Danette Scudder**

TN Valley Public Power Association

**Catherine Via**

TN Farm Bureau Federation

**Randy Wiggins**

Cherokee County, NC

\*RRSC Chair

# Safety First



## Building Emergency Plan

# Introductions



- Name
- Organization
- Water-based Activity this summer



# Today's Meeting

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# Meeting Goals

- Inform on the high quality dam monitoring and safety program
- Update on the Pickwick Dam project
- Spotlight the Pickwick Campground restoration project
- Update on the river bank erosion study and prepare for site visit
- Update on TVA Natural Resources Stewardship and River Management activities

# Agenda – September 11, 2019

<b>8:30</b>	<b>Welcome</b>	Mark Iverson, Chair and GM Bowling Green Municipal Utilities
<b>8:40</b>	<b>Introductions and Agenda Review</b>	Liz Upchurch, Facilitator
<b>8:55</b>	<b>FACA Briefing</b>	Kendra Mansur – Office of the General Counsel
<b>9:00</b>	<b>DFO Briefing</b>	Amy Henry, Enterprise Relations and Innovation and Designated Federal Officer
<b>9:20</b>	<b>Break</b>	
<b>9:35</b>	<b>Dam Safety Program</b>	Jennifer Dodd and Bernie Auld
<b>10:00</b>	<b>Pickwick Dam project</b>	Mitchell Horton
<b>10:15</b>	<b>Erosion Control Study</b>	Shannon O’Quinn and David Blackwood, West Tennessee Basin Authority
<b>10:45</b>	<b>Break</b>	
<b>11:00</b>	<b>Pickwick Campground Repair Project</b>	Tina Guinn and Derek South
<b>11:35</b>	<b>Announcements</b>	Liz
<b>11:45</b>	<b>Wrap up and adjourn</b>	



# Agenda – September 12, 2019

<b>8:30</b>	<b>Welcome and Recap</b>	Liz, Facilitator
<b>8:40</b>	<b>Council Discussion</b>	Mark/Amy/Liz
<b>9:25</b>	<b>Break/Prep for Public Comment Period</b>	
<b>9:30</b>	<b>Public Comment Session</b>	Liz and Council
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<b>11:15</b>	<b>Finalize Observations</b>	Council
<b>11:45</b>	<b>Wrap Up</b>	Amy/Liz
<b>12:00</b>	<b>Adjourn</b>	

# RRSC Meeting Facilitation

- The facilitator will ensure good order during all open discussions
- Only one person is permitted to comment at a time
- Please turn your name card on its side in order to be recognized by the Chair or facilitator when wanting to provide comment.



The Federal Advisory Committee Act  
and  
The Regional Resource Stewardship Council

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Kendra Mansur, Attorney  
TVA's Office of General Counsel  
FACA Briefing—Tenth Term  
Fourth Meeting

# RRSC Meeting Protocols

## Agenda

- Joe Hoagland, Vice President, Innovation & Research is the Designated Federal Officer (DFO); Amy Henry, Senior Manager, Enterprise Relations & Strategic Partnerships is the alternate DFO
- Agenda prepared and approved by the DFO in consultation with Council Chair, Mark Iverson
- Agenda distributed to Council and an outline is published in the Federal Register prior to each meeting
- Topics may be submitted to the DFO by any member of the Council, or non-members, including members of the public

## Meeting Minutes

- DFO will ensure that minutes are prepared for each meeting, approved by the Chair, and made available to Council members and the public

## Voting

- Any member of the Council may make a motion for a vote
- Quorum is a majority of the members of the Council\*
- Advice requires an affirmative vote of majority of Council members present
- Advice may include minority or dissenting views

## Membership

- Balanced Membership
- Professional or personal qualifications to achieve the mission of regional resource stewardship
- Broad range of diverse views and interests, including recreational, environmental, industrial, business, consumer, educational and community leadership

\* Pursuant to the RRSC by-laws proposed for amendment.



Thank you  
for your participation and advice.

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# DFO Briefing

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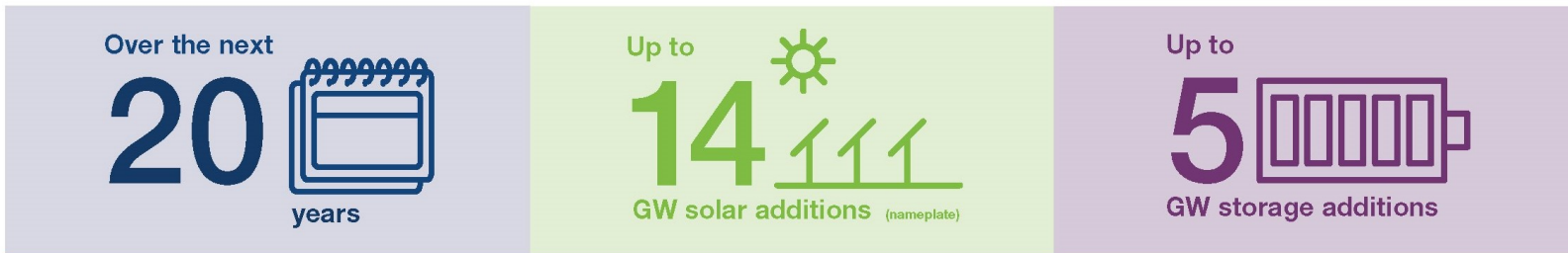
Amy Henry, Senior Manager, Enterprise Relations and Innovation  
Designated Federal Officer Alternate

# TVA Update – Board Actions

Approved:

- 10-year financial plan which proposes a decade of stable rates – making TVA and the Valley even more competitive.
- 2019 Integrated Resource Plan, designed with significant stakeholder input, will serve as a long-range business guide.
- An optional 20-year partnership proposal with our Local Power Companies that more closely aligns the interests and objectives of TVA and our customers.

# 2019 IRP Results Indicate:



All portfolios point to a TVA power system that will be LOW-COST, RELIABLE, and CLEAN





# Near-Term Actions

## Renewables & Flexibility



- Add solar based on economics and to meet customer demand
- Enhance system flexibility to integrate renewables and distributed resources
- Evaluate demonstration battery storage to gain operational experience

## Existing Fleet



- Pursue option for license renewal for TVA's nuclear fleet
- Evaluate engineering end-of-life dates for aging fossil units to inform long-term planning

## Energy Usage



- Conduct market potential study for energy efficiency and demand response
- Collaborate with states and local stakeholders to address low income energy efficiency
- Collaboratively deploy initiatives to stimulate the local electric vehicle market

## Distribution Planning



- Support development of Distribution Resource Planning for integration into TVA's planning process

Questions?



# Pickwick Landing South Embankment Dam

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Bernie Auld  
Responsible Engineering Manager

# TVA Dam Safety Program

The TVA Dam Safety group provides oversight for 121 dams and impoundments TVA-wide and manages 87 river dams across 6 states.



Our dams are a historic cornerstone of TVA, helping bring flood control, power generation and prosperity to the Tennessee Valley. **Our mission is to protect lives and property by enhancing safety and reducing dam risk by ensuring these dams are designed, constructed, operated, and maintained as safely and as reliably as is practicable.**

# Major Components of a Dam Safety Program

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*Surveillance – Inspections & Instrumentation*

*Operations & Maintenance*

*Risk Characterization\**

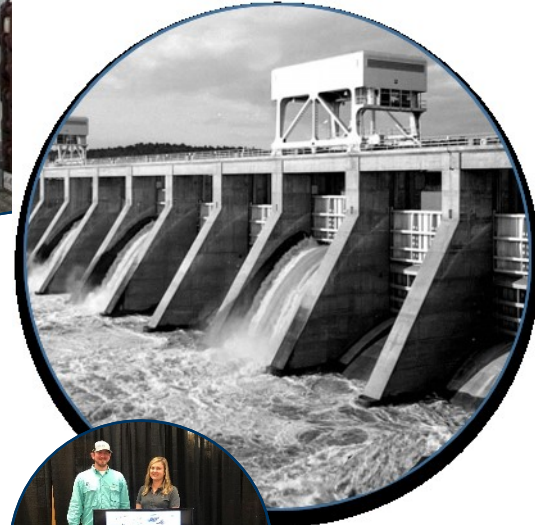
*Analysis & Design*

*Construction/Rehabilitation*

*Emergency Preparedness*

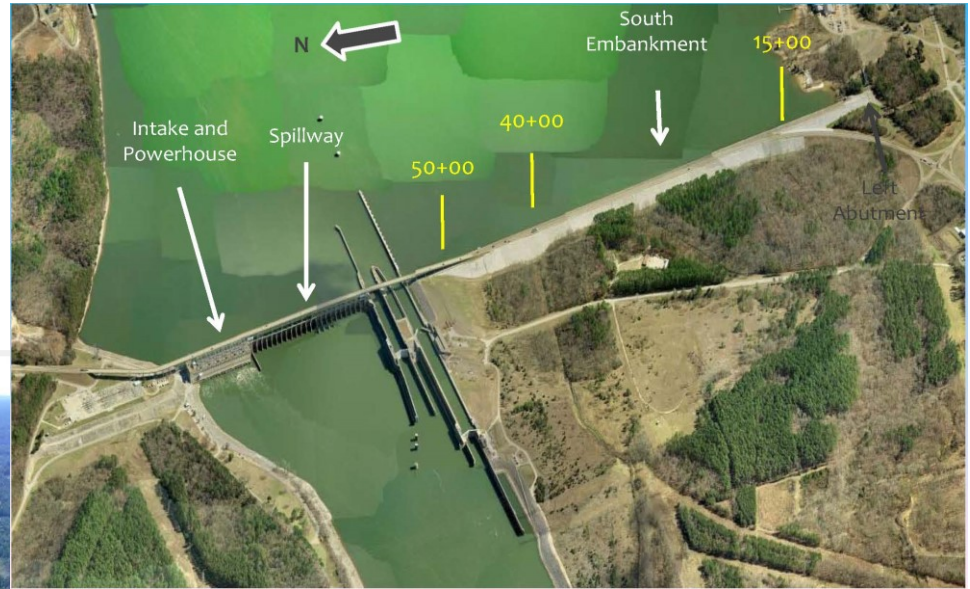
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TVA uses an external board of industry experts 3 times each year to review its Dam Safety Program!



**Pickwick Landing Dam is a multi-purpose dam located on the Tennessee River in Hardin County, Tennessee, near the borders with Mississippi and Alabama**

**The reservoir forms the headwater of the Tombigbee Waterway at the Tennessee River and is a vital navigation lock used for hydro generation, recreation, and limited flood control**



**Pickwick Landing Dam has performed well over the last 80+ years**

**The south embankment is 4,380-ft long and was constructed in the 1930s using hydraulic fill methods**

# Background Information

**A Hydraulic Fill Dam is one in which the dredged material is used to make the water tight barrier and does not require compaction of the material**



# Background Information

Earthen embankment dams are no longer built by this method with the development of larger earth moving equipment, and at the time of construction, little was known about building for earthquake safety



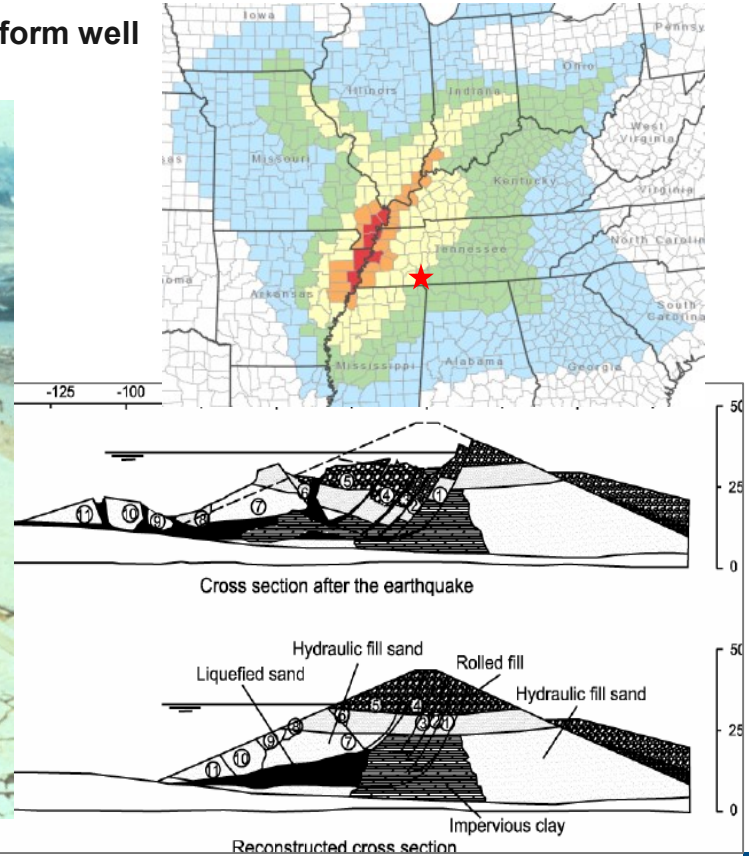


# South Embankment Dam Seismic Stability

Case histories of hydraulic fill dams show they do not perform well during significant earthquakes



LOWER SAN FERNANDO DAM - CALIFORNIA



# Mitigation Measures of the South Embankment

TVA worked with teams of experts, stakeholders, and regulators to achieve the following goals:

- ✓ **Protection of the Public**
- ✓ **Interim Risk Reduction Measures (IRRM's)**
  - **Communication and Education**
  - **Enhanced Emergency Action Plans**
  - **Enhance Surveillance and Monitoring Systems**
- ✓ **Feasibility Study Program to address Seismic Mitigation**
- ✓ **National Environmental Protection Act (NEPA)**
- ✓ **Design of Mitigation Measures**
- ❑ **Construction of Mitigation Measures**

## ✓ Protection of the Public

- **Although not anticipated, there is a remote chance that Pickwick Landing could experience a large earthquake**
- **TVA has constructed a Dam Failure Warning System to alert residents downstream in the unlikely event of deformation at the South Embankment Dam**
- **TVA uses news articles, websites, and public meetings to educate and keep the public informed on the dam's condition and on its progress**

# ✓ Interim Risk Reduction Measures (IRRM's)

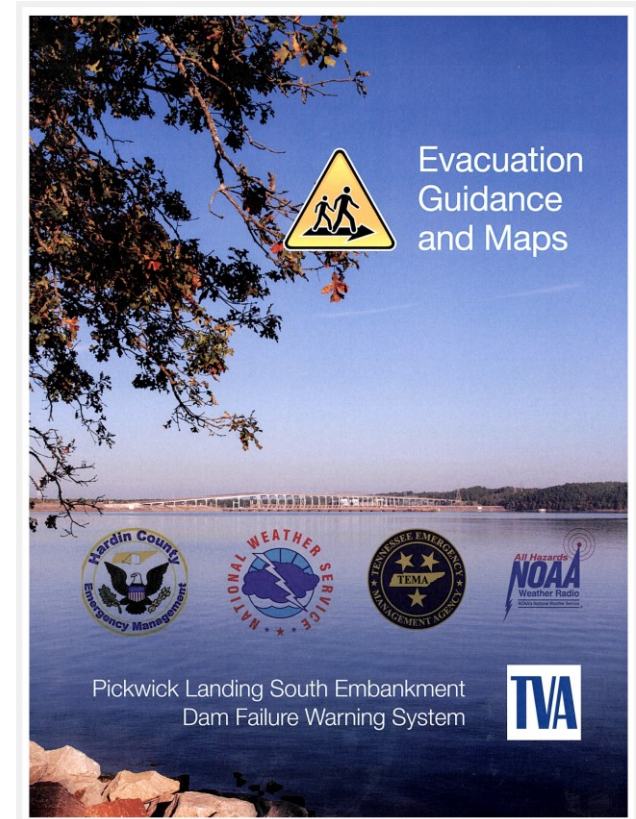
## ✓ Communication and Education

- ❑ Enhanced Emergency Action Plans
- ❑ Enhance Surveillance and Monitoring Systems

TVA continues to work with local Emergency Management Agency's (EMA's) to educate the Population at Risk (PAR)

### TVA initiated a Community Outreach Program

- ✓ Distributed information about the Dam Failure Warning System and the Evacuation Plan
- ✓ Activities included:
  - ✓ Newsletters
  - ✓ Brochures
  - ✓ Public meetings
  - ✓ Posters
  - ✓ Web site ([www.tva.gov/pickwick](http://www.tva.gov/pickwick))



# ✓ Interim Risk Reduction Measures (IRRM's)

- ✓ Communication and Education
- ✓ **Enhanced Emergency Action Plans**
- ☐ Enhance Surveillance and Monitoring Systems

## EVACUATION PLAN

### Why is an Evacuation Plan needed?

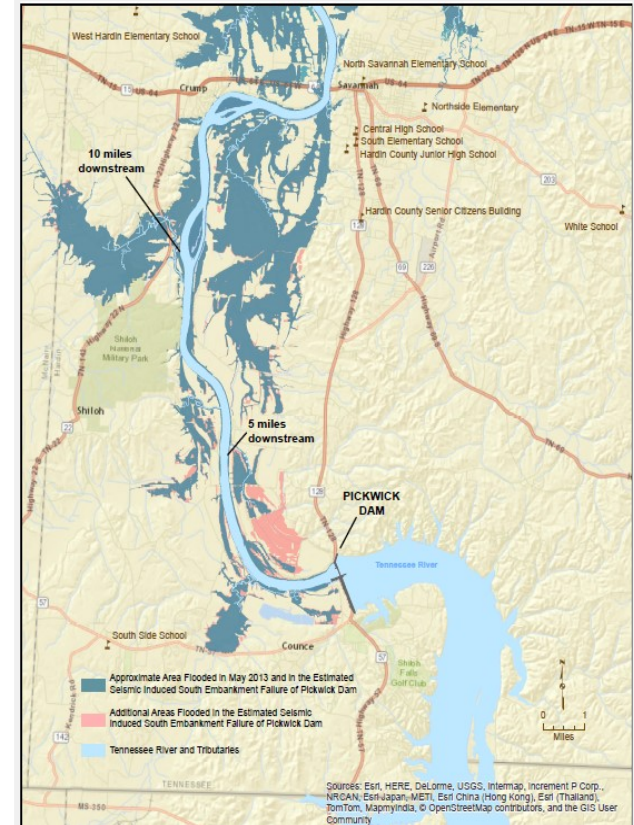
To enable residences, businesses, schools and other facilities downstream of the dam to quickly evacuate

### What are the Elements of the Plan?

- Identification of the inundation zones
- Identification of populations, critical facilities, and people needing special assistance

### How did TVA Communicate the Plan?

Through community outreach programs

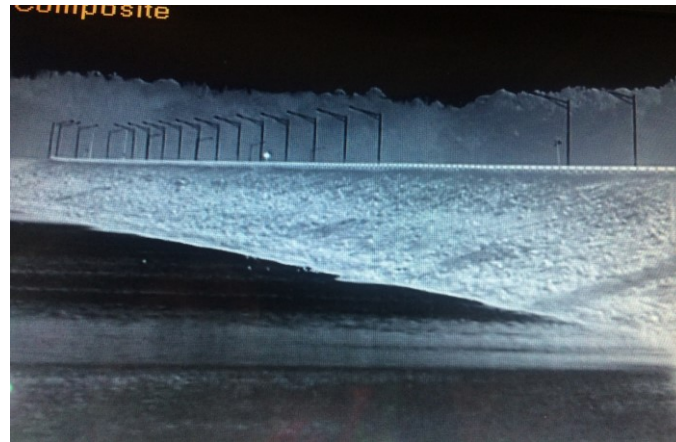
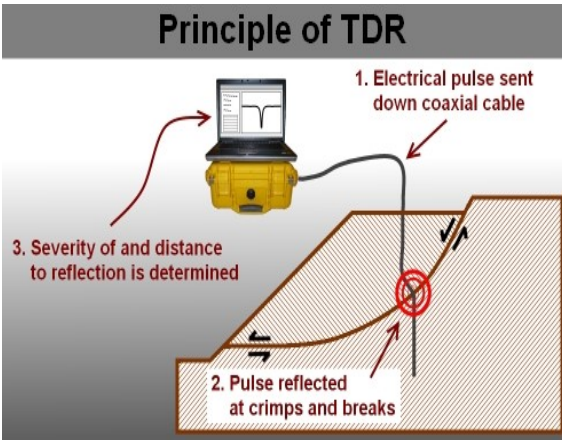
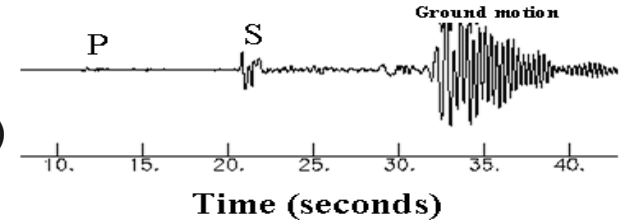


# ✓ Interim Risk Reduction Measures (IRRM's)

- ✓ Communication and Education
- ✓ Enhanced Emergency Action Plans
- ❑ Enhance Surveillance and Monitoring Systems

## What does the Dam Failure Warning System include?

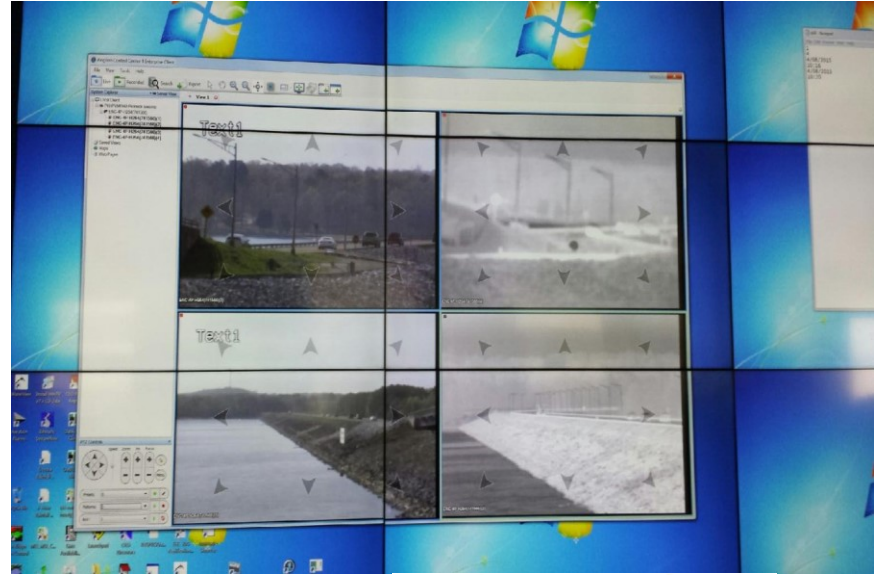
- ✓ Seismic Recorder
- ✓ Instruments to detect earthquake induced damage to dam (TDR)
- ✓ Live composite video feeds



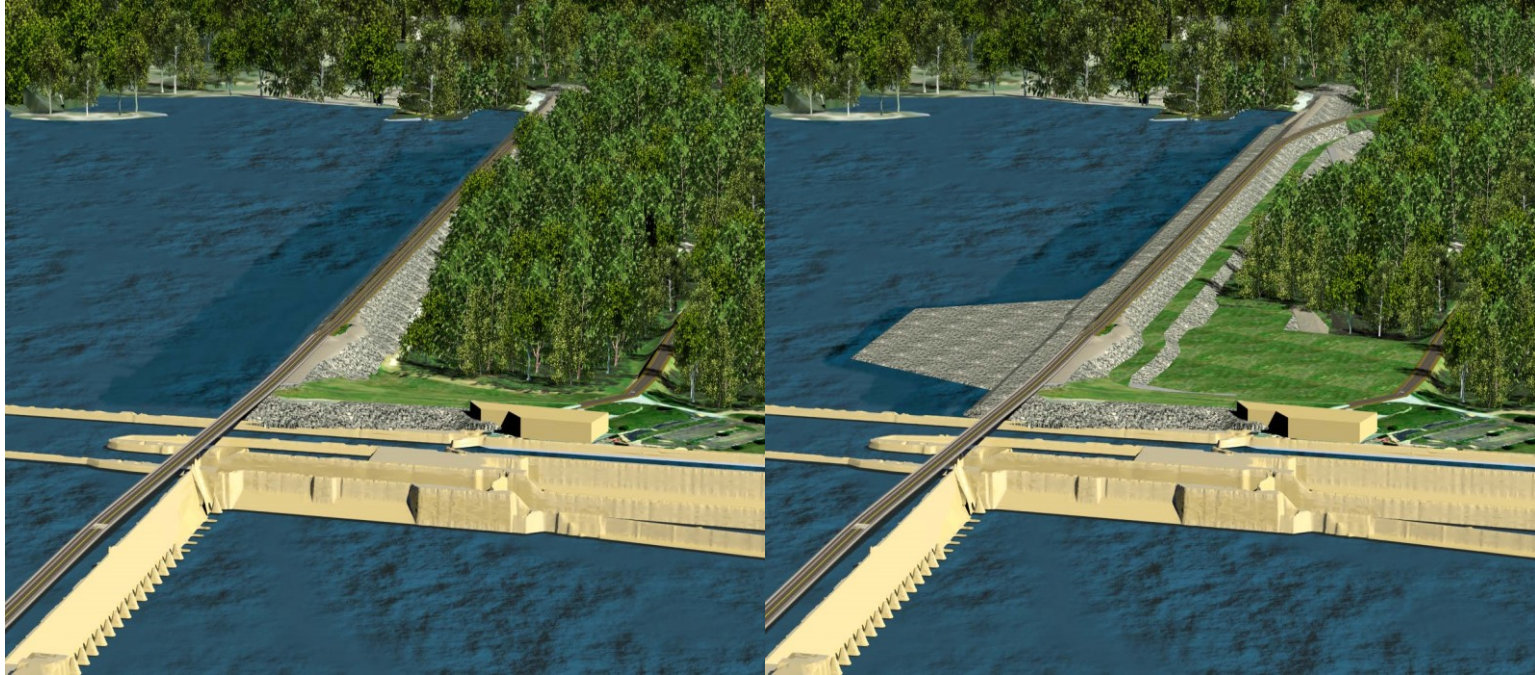
Composite Video permits viewing of a potential seep or breach condition within the embankment night and day based on its heat signature.

# Enhanced Surveillance and Monitoring Systems

- ❑ South Embankment Dam Failure Warning System is monitored by operators in the TVA River Forecast Center 24/7
- ❑ Provides specific actions for evaluating alerts from monitoring equipment to prevent FALSE notifications
- ❑ Lock operations verification 24/7 (via satellite phone)
- ❑ National Weather Service will send an alert in the event of deformation or breach condition
- ❑ Tone Alert System
- ❑ Provided Weather Radios to homes within inundation regions
- ❑ Instrumentation has Radio backup



# Berms and Extended Fills

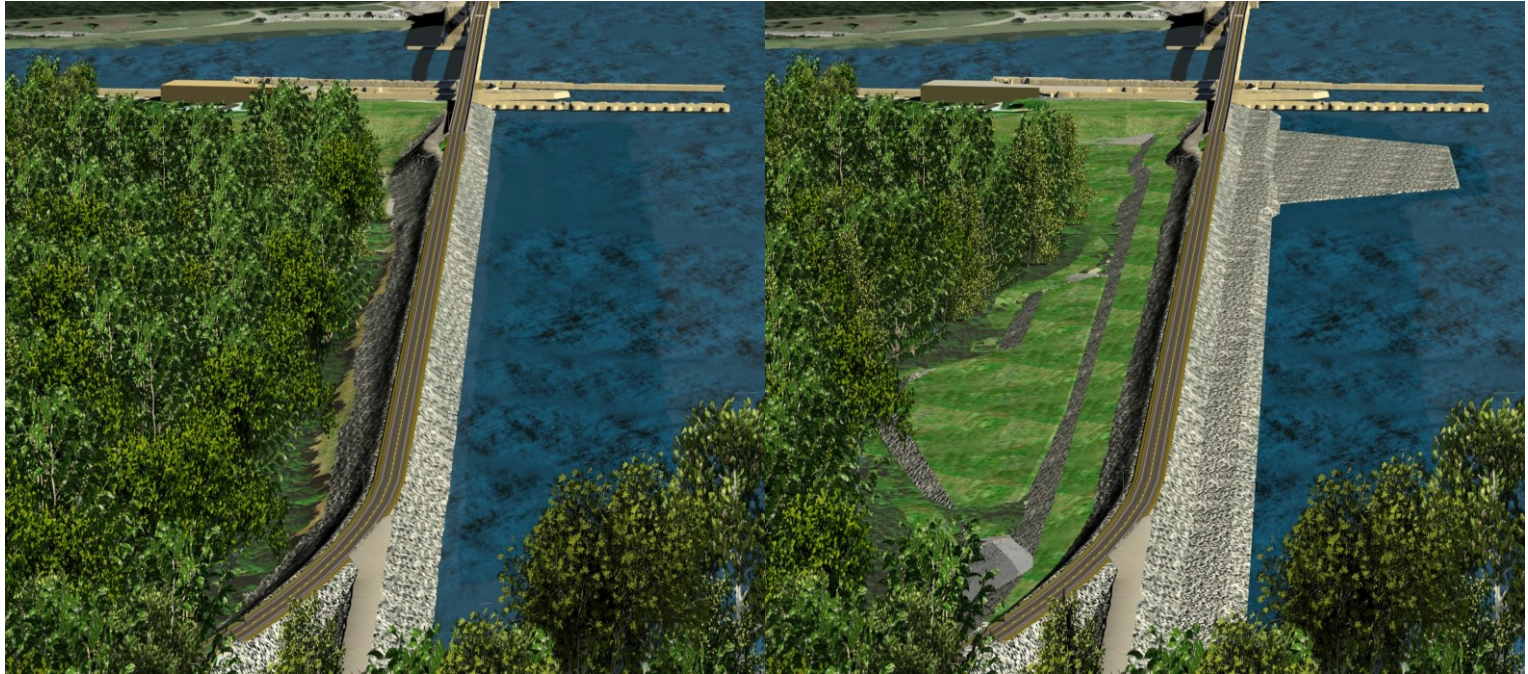


Existing

Proposed



# Berms and Extended Fills



Existing

Proposed



Questions



# Pickwick Landing South Embankment Dam

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Jacob Horton  
Construction Manager



































Saturday, April 6, 2019 10:37:56.2

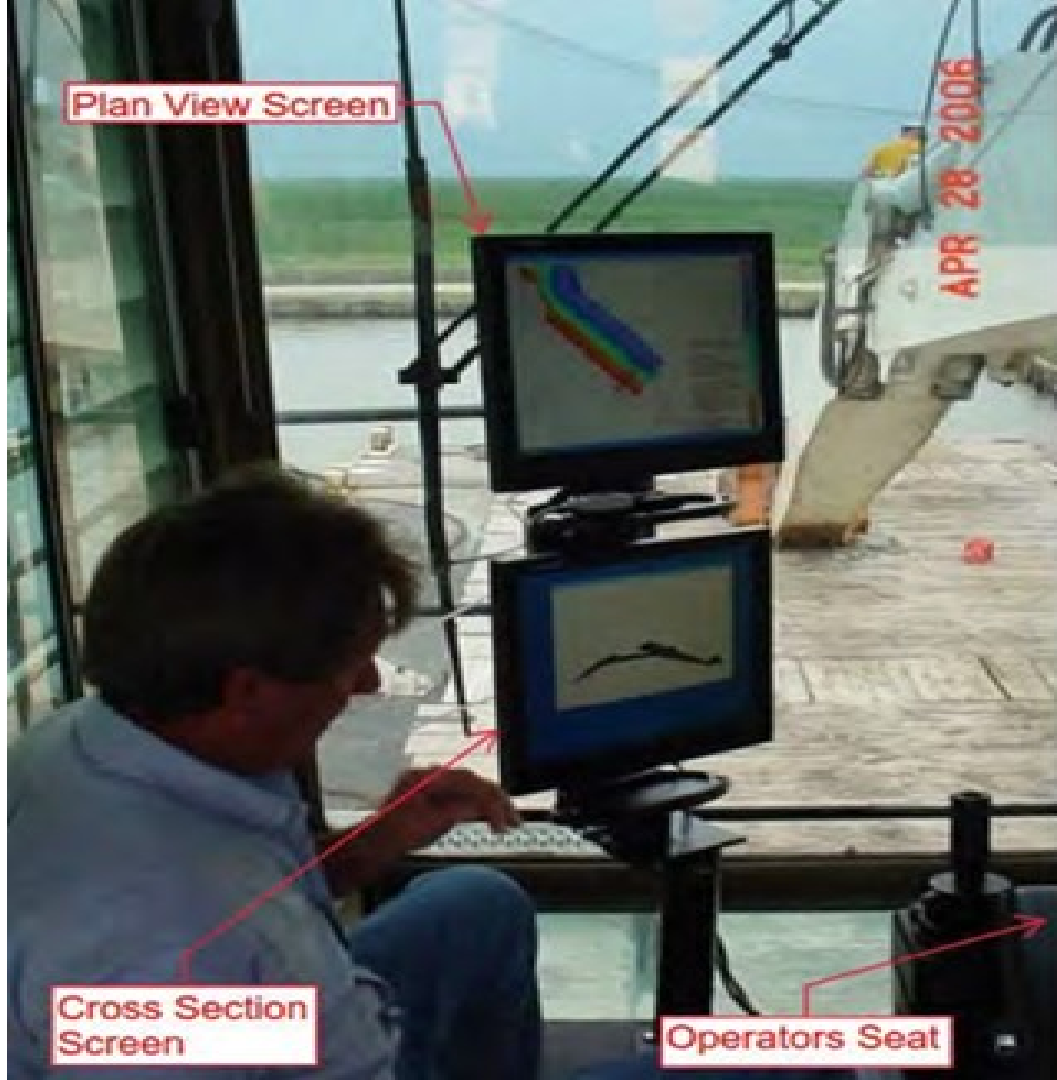
Counce





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Plan View Screen

Cross Section Screen

Operators Seat















Questions



# Savannah, TN Erosion Study

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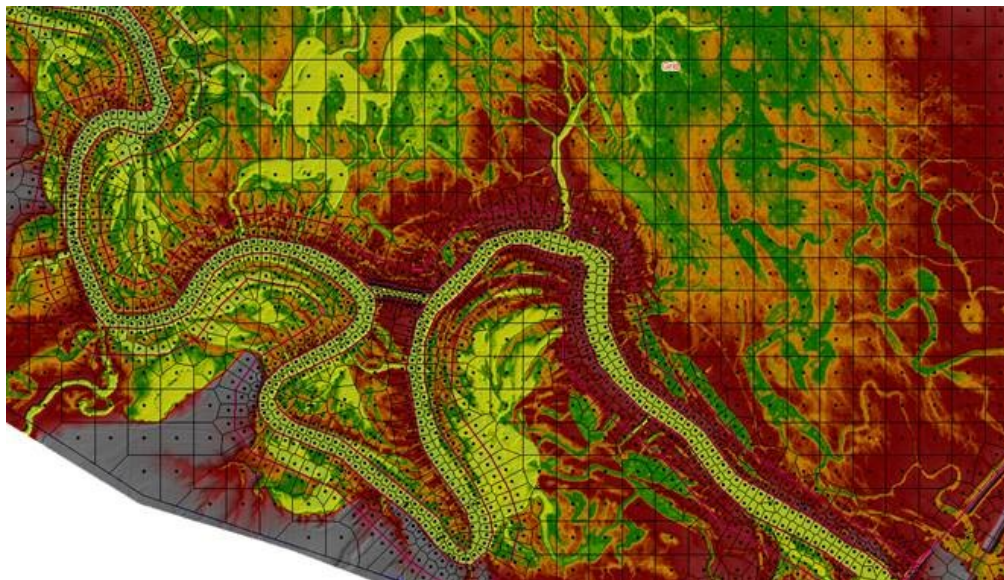
David Blackwood, PE

Executive Director

West Tennessee River Basin Authority

September 11, 2019

# West Tennessee River Basin Authority



David Blackwood, PE  
Executive Director

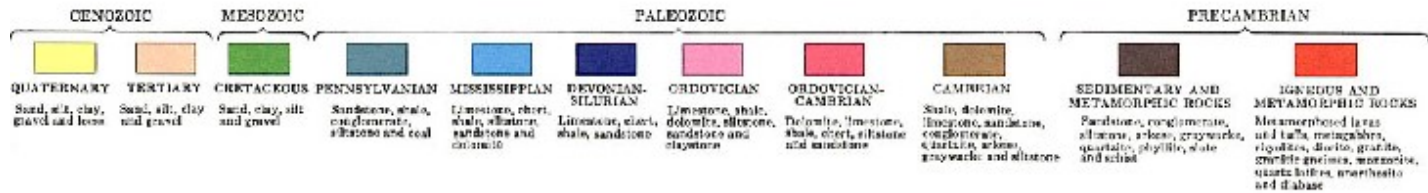
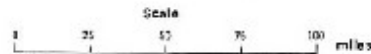
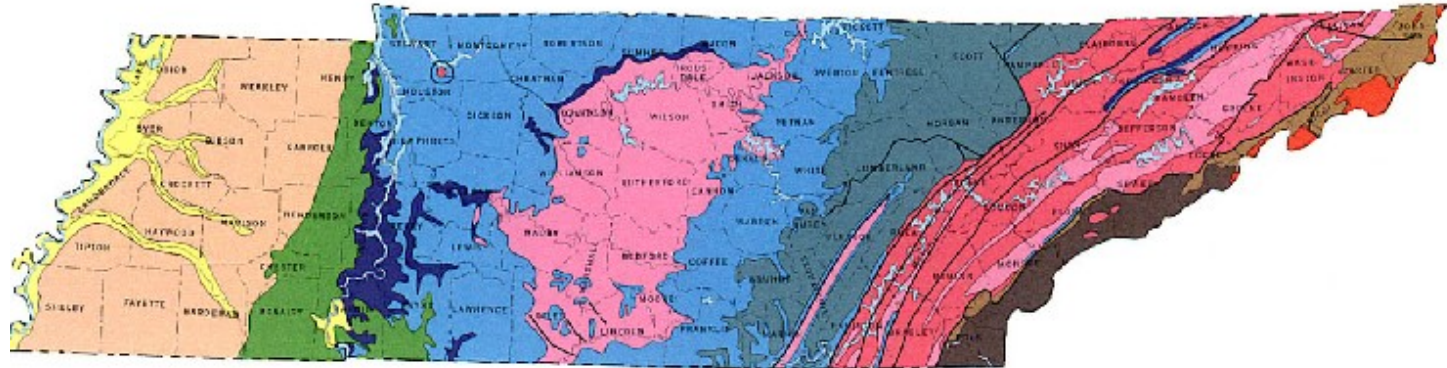


# TN River Bank Stability Study





# Geology



GENERALIZED GEOLOGIC MAP OF TENNESSEE

# River/Lake Function



# River/Lake Function



# Agricultural Concerns



# Cultural Resource Concerns



# Mass Wasting Bank Failures



# Bank Failure Cycle



# High Water Dropout





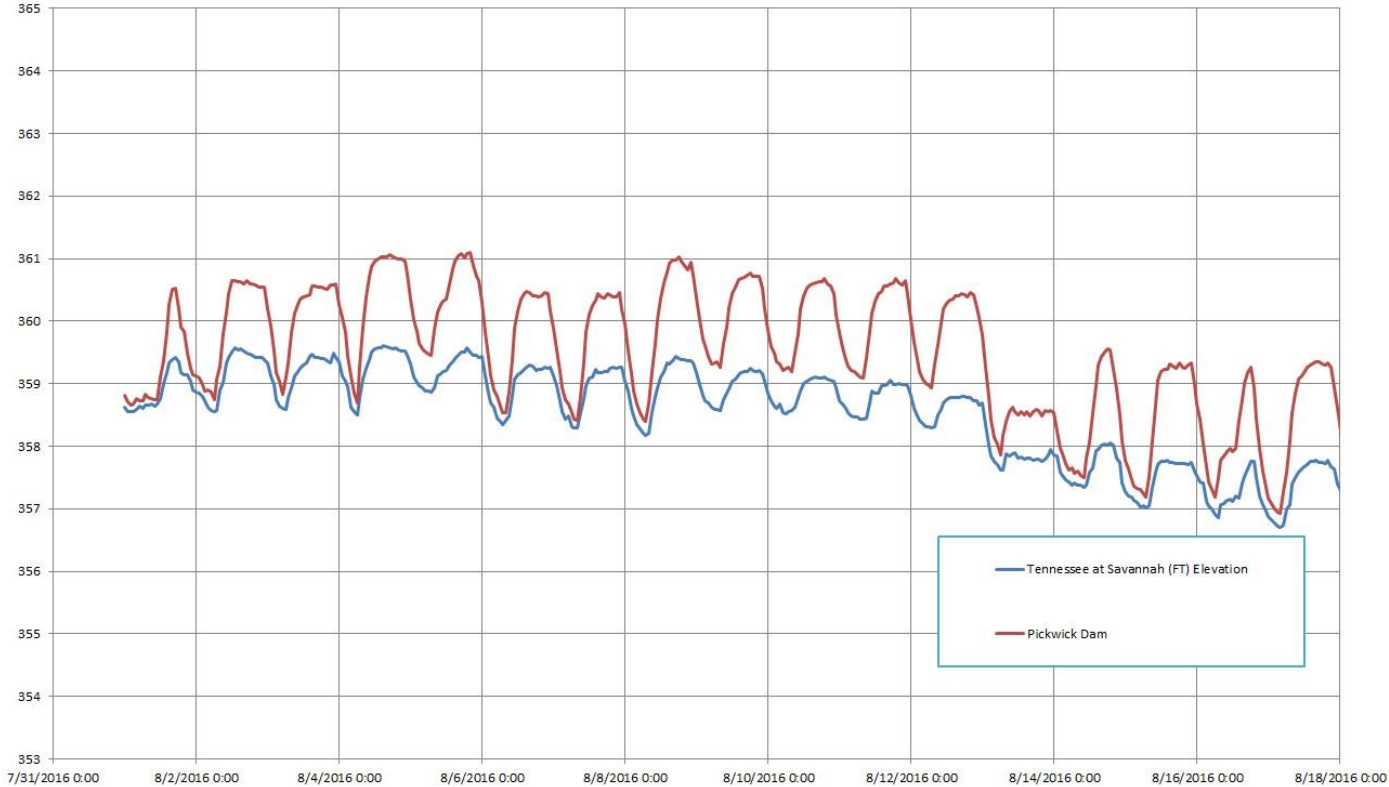
# Bank Slough



# Boat + Wind Waves



# Daily Fluctuation



# Sediment Balance



# Flow Storage vs. Lake Storage



# Disrupt the Cycle



# BSTEM Model – Detailed Study



## Scope of Work

Tennessee River Bank  
Erosion: Pickwick Dam to  
Savannah, Tennessee



June 26, 2018



# Drivers of Erosion

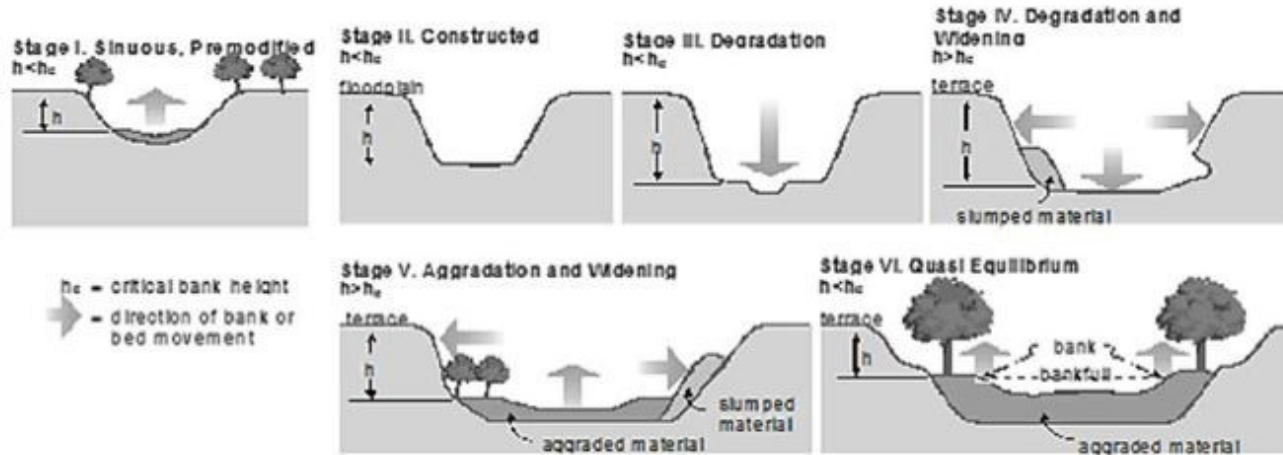
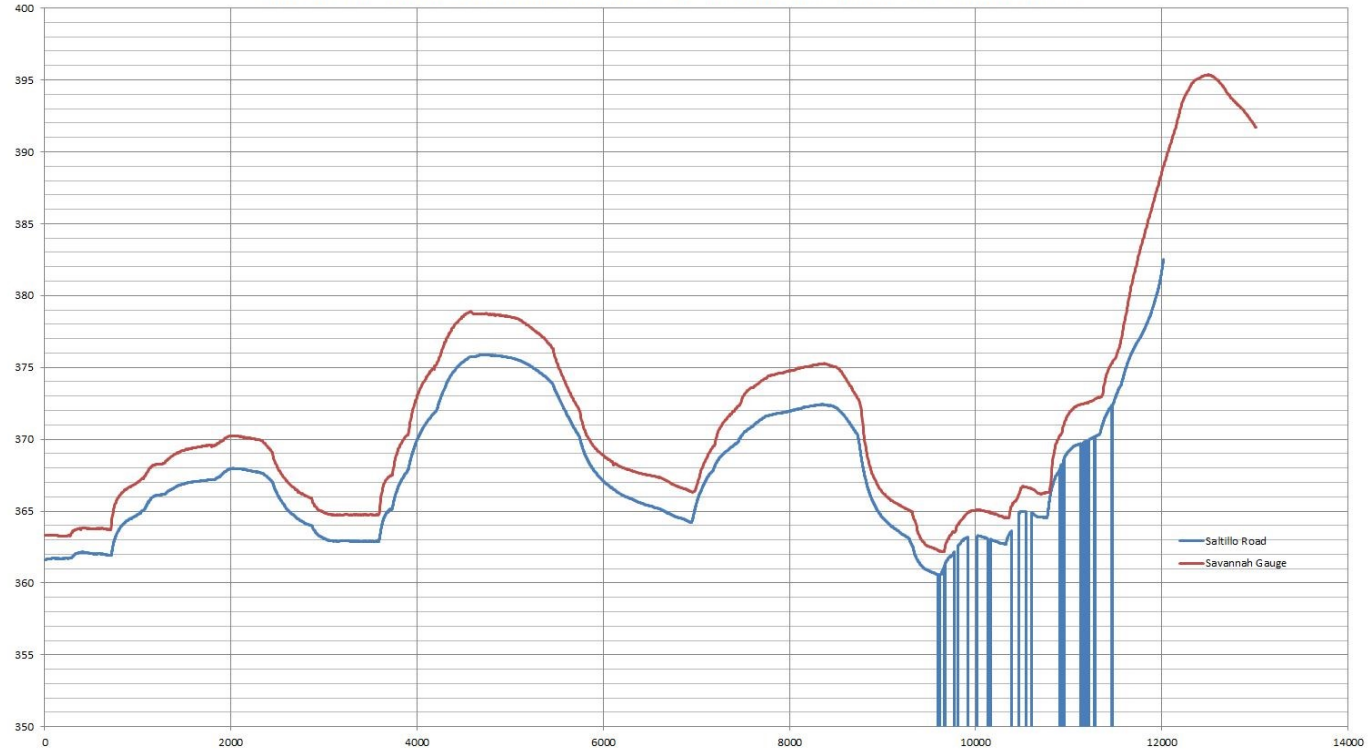


Figure 6 Six stages of channel evolution from Simon and Hupp (1986) and Simon (1989)



# Flow Patterns and History

Water Level - Saltillo Road and Savannah Gauge at TN River December 2018 to March 2019

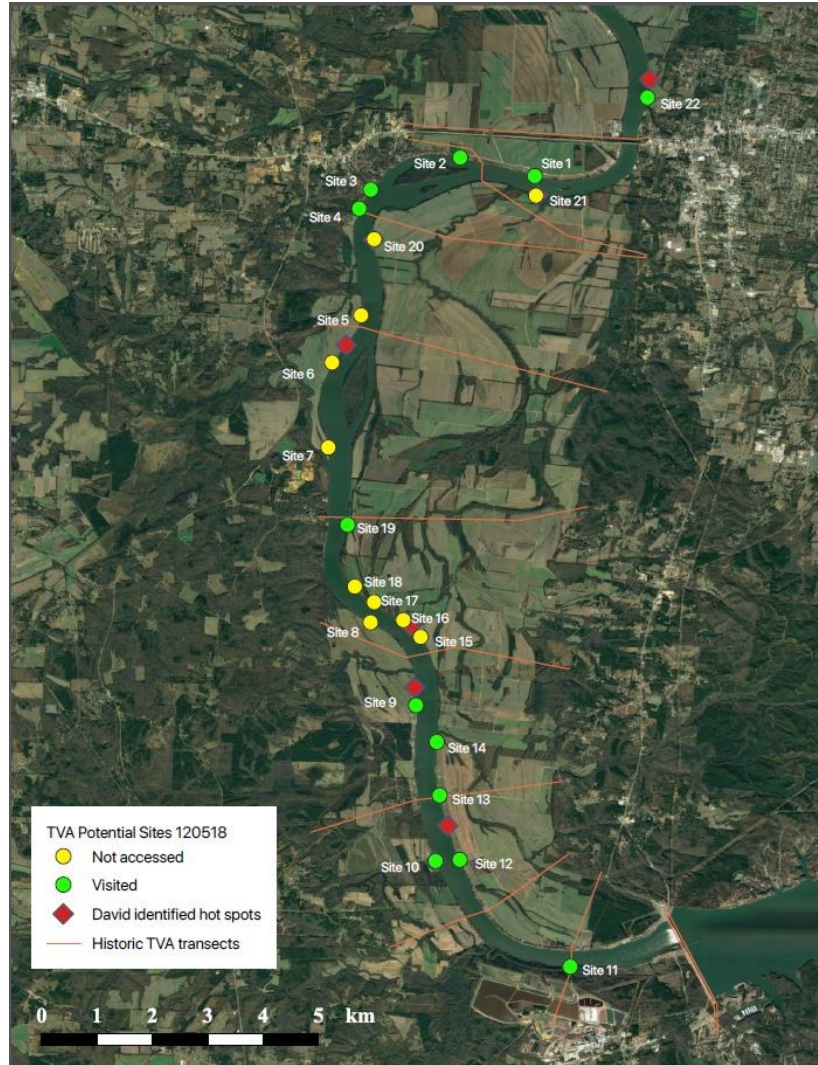


# Past Conditions and Current

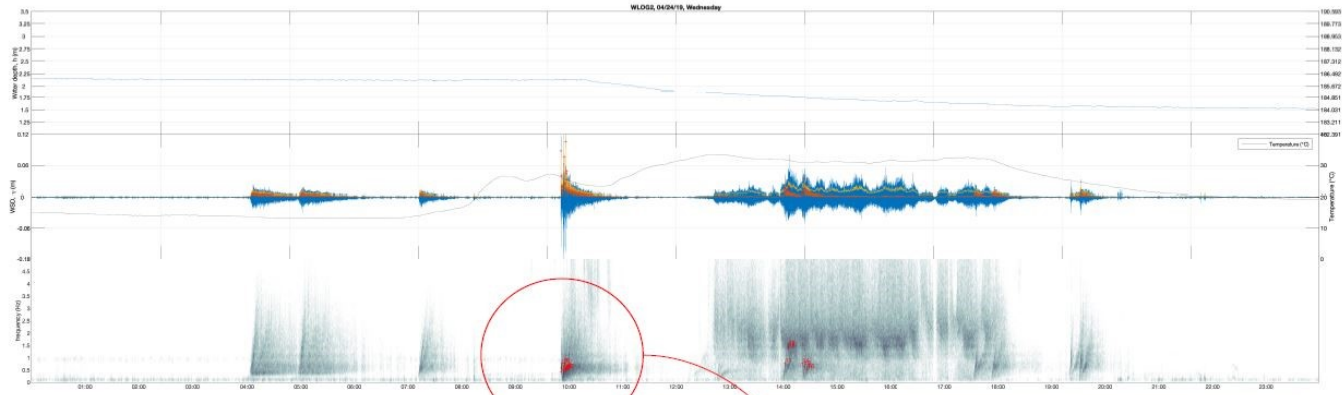


# Soil Properties – Field Crew

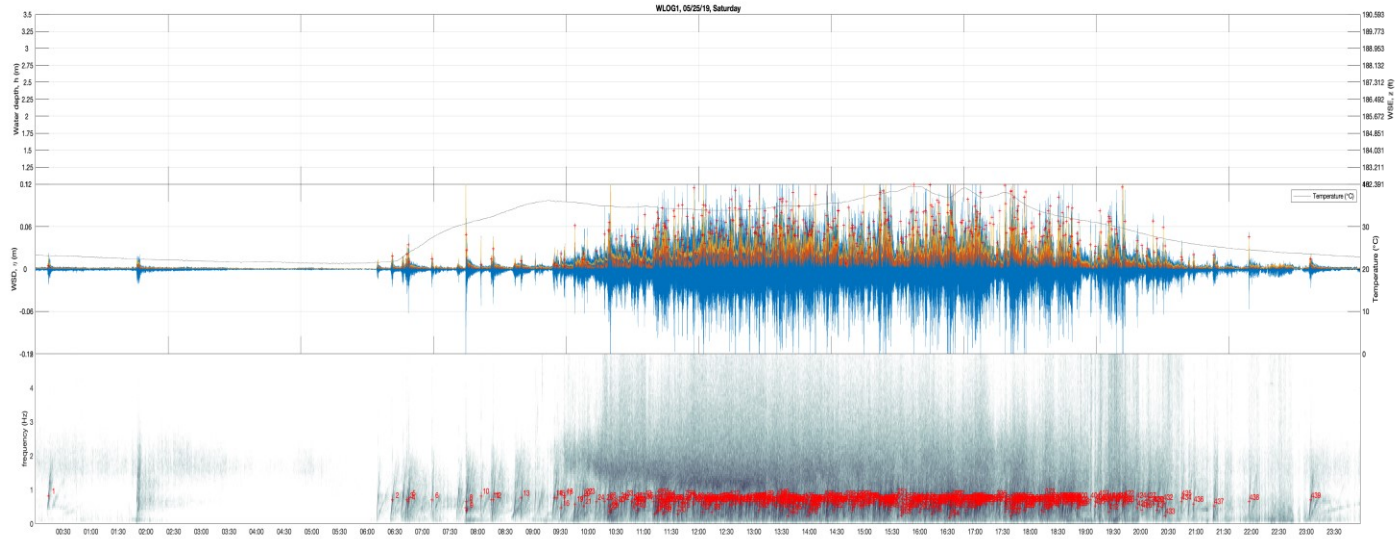




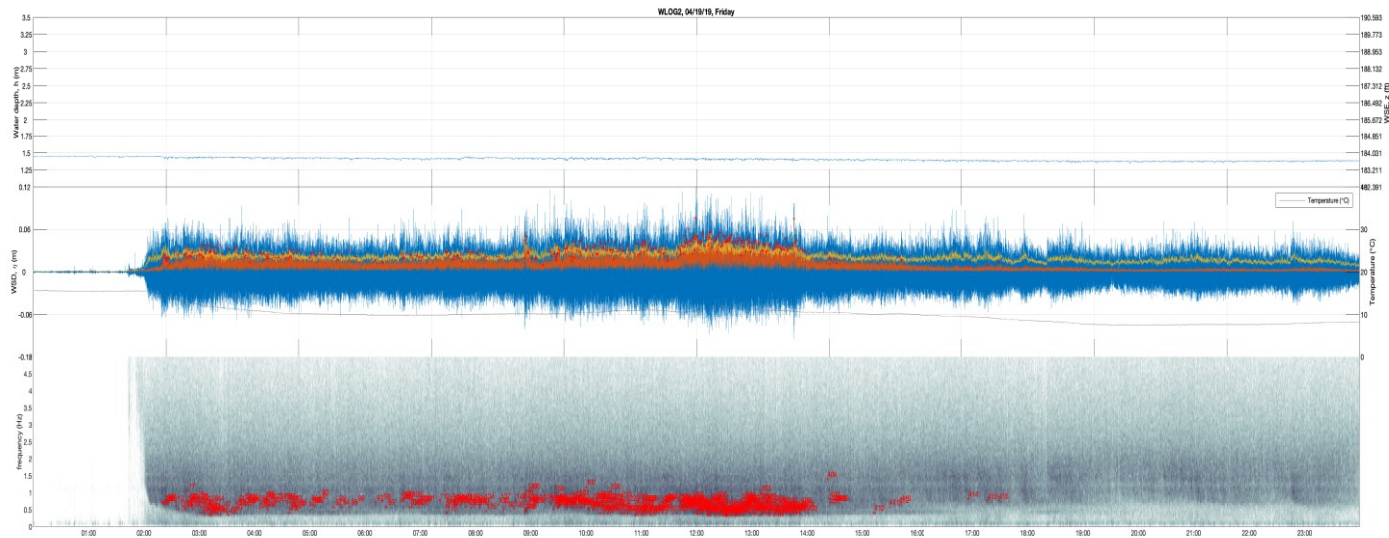
# Wave and Sources



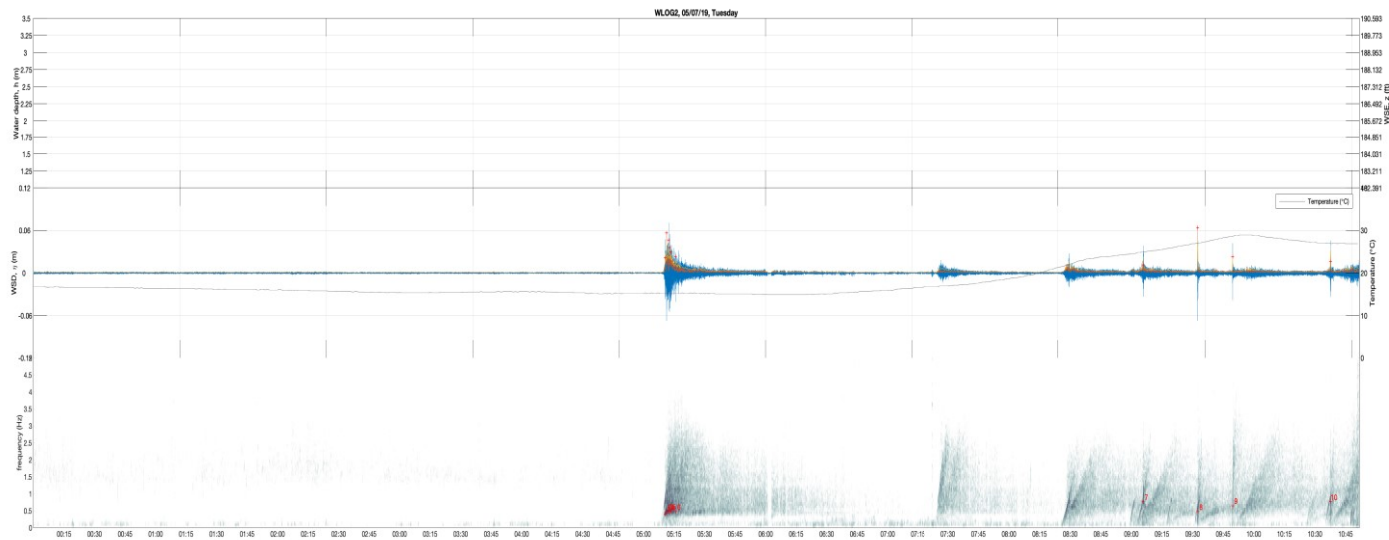
# Memorial day weekend



# A windy day



# A calm day





# Model Different Practices



# Run Models Through Time/Events



# Cost Versus Benefit

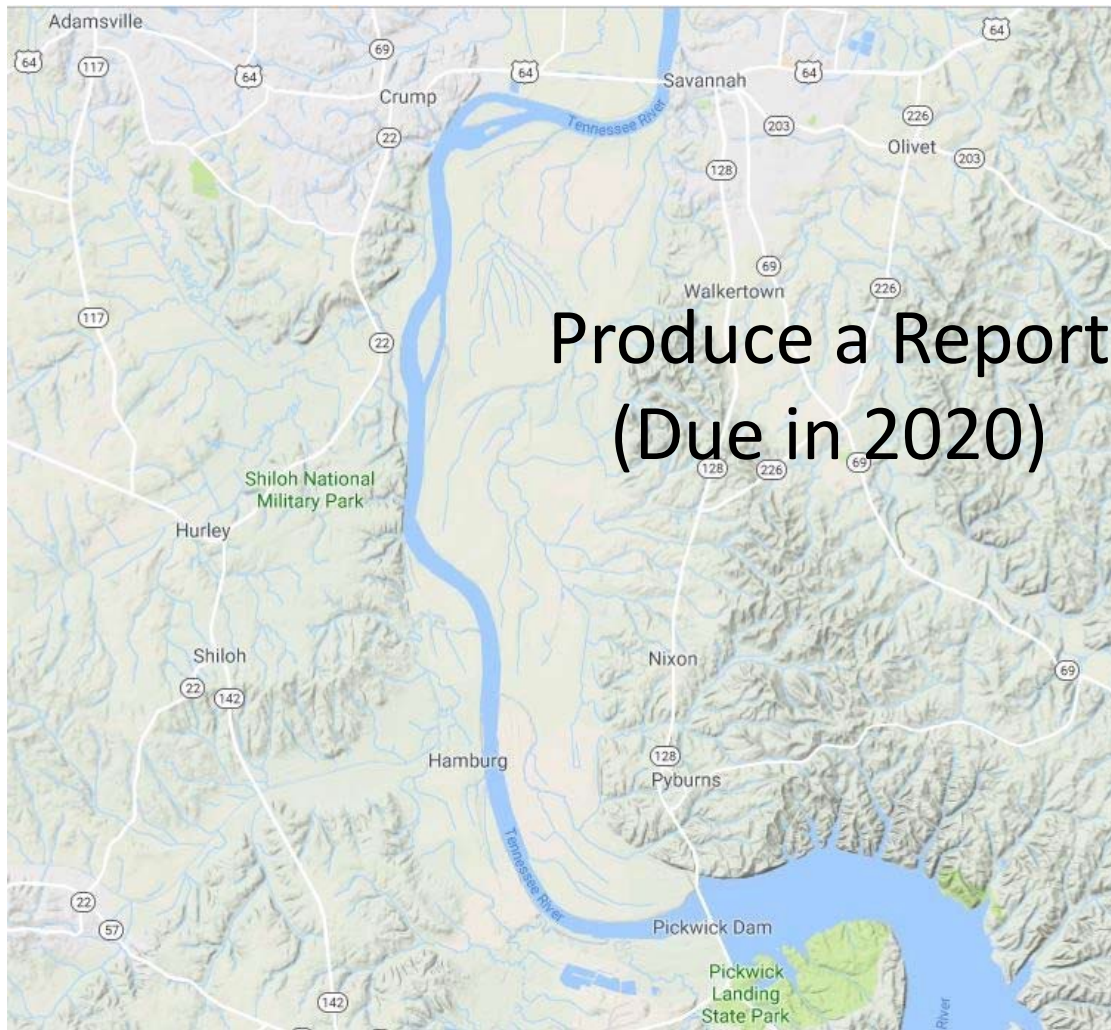


# Resources, Nutrients, Land, Water Quality



# Identify Locations with Cost-Benefit and Best Practices





Produce a Report  
(Due in 2020)

# Questions?

## **Contact Information**

[David.Blackwood@tn.gov](mailto:David.Blackwood@tn.gov)

731-784-8173 (office)

731-225-7509 (cell)



# Pickwick Dam Reservation

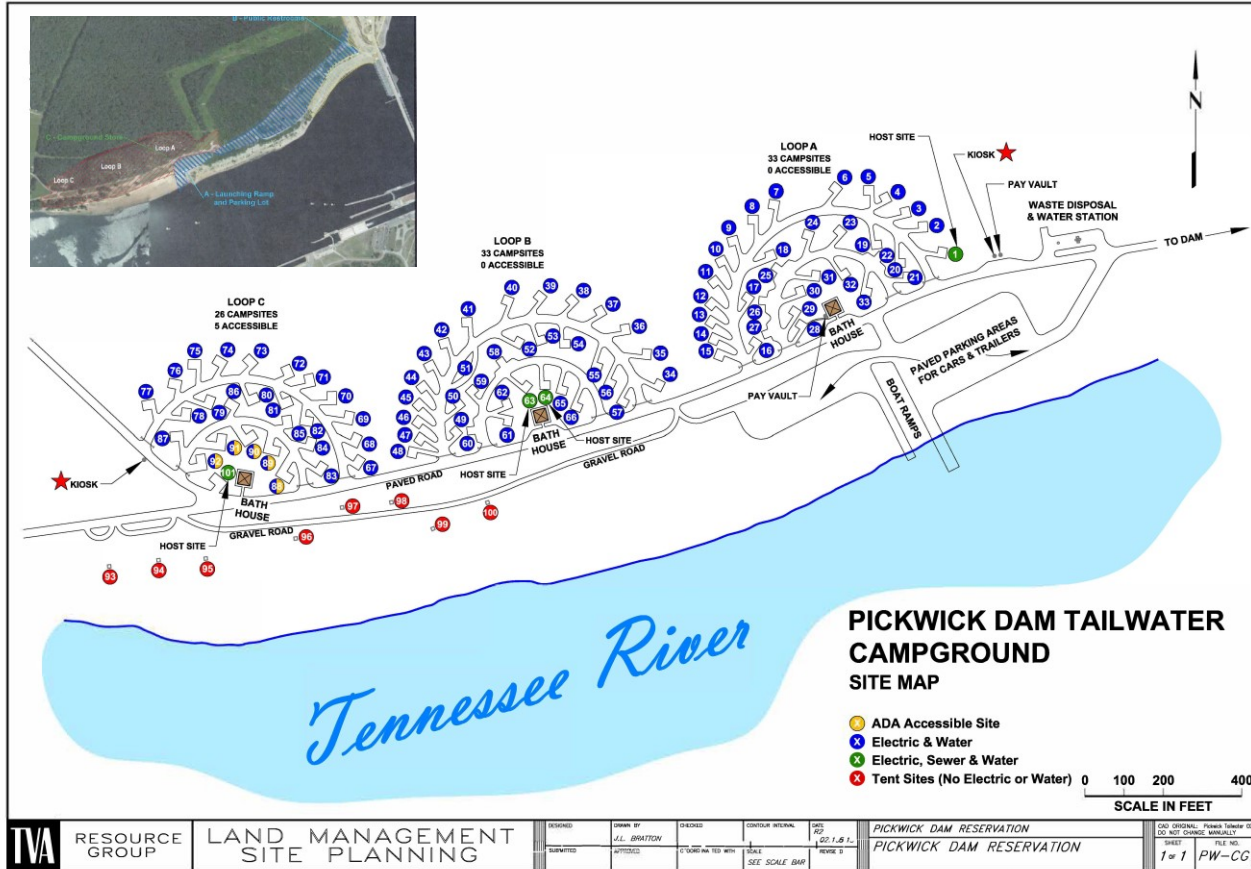
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September 11, 2019

Tina Guinn, Manager of Recreation, Natural Resources



# Pickwick Dam Campground



# Pickwick Dam Reservation



Pickwick Campground is one of six TVA campgrounds located on dam reservations and managed by Recreation Resource Management, Inc.

# The Rain

## Facts from TVA's River Management Group

- 2018 was the rainiest year on historical record for the Tennessee Valley
- Rainfall in December 2018 was 170% of normal
- We had the rainiest February ever – 269% of normal

Pickwick Reservoir can only hold 4.5 inches of runoff at winter pool, but received 12+ inches of rain in February. At one point, four million gallons per second were being released at the dam.

# The Damage



# Analysis & Recovery Plans

## Primary Considerations

1. Safety concerns
2. Timing within funding constraints
3. Public interest



## Recreation Economic Value

Table 1- Pickwick Dam Campground Recreational use Values 2016-2018

<b>Year Reported</b>	<b>Individual User Days</b>	<b>Recreational Economic Value</b>
2016	14,342	\$502,973
2017	10,238	\$359,047
2018	24,793	\$869,491
3 Year Average	16,458	\$577,170

\* Note- Bathhouse renovations occurred in 2017 which could explain the drop in user days

# Analysis & Recovery Plans

- Extremely high recreational economic value
- Offers users direct access to other tailwater recreational pursuits
- Grown in popularity to become second in visitors served for the 6 concessionaire campgrounds under RRM management
- Rebuilding Pickwick Dam Campground to its full capacity
- Taking into consideration mitigation measures to reduce impacts from future flood events

## Major Projects

- A. Restrooms
- B. Tree removal
- C. Debris
- D. Campsites
- E. Day Use Area
- F. Boat ramp

# Restroom Replacement

- Three bathhouses within the campground, one for each of the loops
- One restroom building at the day use area
- All facilities were a total loss



# Tree Removal

- NR's Natural Resource Management foresters developed a tree removal plan and managed the project, including cleanup
- Tree stand safety concerns





# Campground Loops C and B Repair

Damage to the developed campsites

- electric and water facilities
- campsite grading and site timbers
- campsite amenities: picnic tables, lantern holders, site numbers, grill, & fire rings



# Day Use Area

Damage to the Day Use Area included

- gravel and sand fill
- road damage
- fisherman's pier
- picnic tables
- garbage cans
- signs



# Schedule

- Memorial Day – Temporarily opened Day Use Area and Boat Ramp
- July 4th – Opened Loop C Campsites, Day Use Area and Boat Ramp
- September 16th – Install new restrooms
- Spring of 2020 - Open Loops A and B

# Public Interest

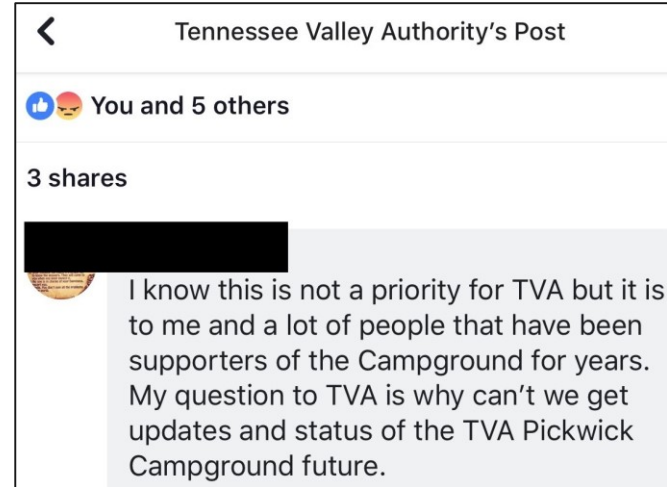
Recreation was busy assessing and planning, two very internal processes

## Concerns

- Facebook postings
- Media requests
- PLIC calls

## Solutions

- TVA Facebook postings
- Onsite interviews with media
- Talking points for PLIC



# Public Feedback



## Parts of TVA Pickwick dam campground open in time for July 4th weekend

By Editor | July 4, 2019 | 0



*“share a call I had this morning...he really appreciates us getting things back open... mentioned how important the boat ramp is to the community “*



# The Crew

- Derek South and Jim Morse - Recreation
- Facilities Management
- Recreation Resource Management, Inc.
- Supply Chain
- Financial Services
- Environment – Cultural Compliance
- Public Land Information Center
- Communications
- Public Outreach and Support
- Natural Resource Management



Questions

# Wrap up and Adjourn

- Field trips bus location
- Breakfast at the hotel
- Term 11
- April 2020 meeting date





Lunch Break

Meeting Adjourned for Today

Meeting will reconvene tomorrow, 9/12, at 8:30 am

Day 2



# Regional Resource Stewardship Council

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September 12, 2019  
Pickwick Pines Resort

A framed photograph with a white border and a black outer frame. The background is a dark, textured wooden plank. The word "welcome" is written in a white, cursive script across the center of the plank.

*welcome*

# Agenda – September 12, 2019

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<b>11:45</b>	<b>Wrap Up</b>	Amy/Liz
<b>12:00</b>	<b>Adjourn</b>	

# Day 1 Recap

- Pickwick Campground repair project
- TVA's Dam Safety program and dam project tour
- Erosion Control study and site visit



# RRSC Discussion

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Break

Prepare for Public Comment Period

# Public Comment Period

- **Public participation is appreciated**
- **This is a listening session; responses are typically not provided**

















# River Management Update

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Tom Barnett, P.E.

# Integrated Tennessee River System Provides Multiple Benefits



Navigation



Water Supply



Flood -Damage  
Reduction



Recreation



Power  
Generation



Water Quality

# Reservoir Conditions

- Rainfall – 48” CYTD (137% of normal, 8/25/19)
- Runoff – 26.8” (153% of normal)
- All 10 major tributary lakes at or above target levels on June 1<sup>st</sup>.
- Tributary lake levels maintained near FG for majority of summer
- Main stem lakes maintained at guide curve





# Highlights

- Handled record breaking rainfall and significant flooding in February 2019. Flood reduction benefits totaled \$1.6B in structural damages averted across the Tennessee River Valley.
- Performed our first tree ring drought study since the 1930's.
- M/V Sideview staff completed two round trips of the Tennessee River and its secondary channels and maintained over 1,500 navigations aids with a perfect safety record.
- Developed and put into production the first operational forecasting 3D hydrothermal model for BFN
- Installed a water quality monitoring station and new fiber communications at Tims Ford Hydro Plant.
- River Management indicator above stretch goal



# River/Recreation Tour May 13 – May 17

## Three Teams-

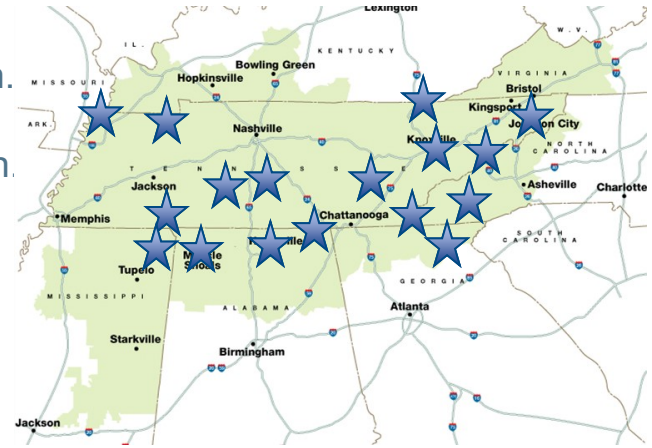
Eastern Valley: North Georgia, Western N.C. and East Tenn.

Western Region: West Tenn./Kentucky and Middle Tenn.

Central Valley: North Alabama/Miss. and Southeastern Tenn.

## Organizations participating:

- River Management
  - Natural Resources
  - Government Relations
  - Communications & Marketing
- 
- Visited nearly 60 local media outlets
  - 8 stakeholder briefings
  - Media event in Tri-Cities



# Outreach

- Dozens of River Forecast Center tours provided (over 400 people this CY)
- River Management staff supported numerous speaking engagements and community events across the Valley
- Social Media – River Management stories and real-time information
- Traditional Media
- Website and App
- TVA Info e-mails (~300 this CY)
- Public phone line



# Social Media Impact

## Facebook:

Number of Posts: 35

Number of Impressions: **7,610,058**

Number of Users Reached: 2,755,040

Number of Link Clicks: 17,700

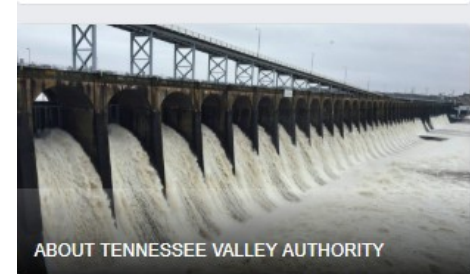
Number of Video Views: 2,210,756

Avg. Reach Per Post: **141,286.63** < Very impressive

Engagement Rate: **9.76%** (Compared to the national average of 0.17%)

**Tennessee Valley Authority**  
Public Utility Company in Knoxville,  
Tennessee

4.3 ★★★★★



[facebook.com/TVA](https://facebook.com/TVA)

We gained 9,387 Facebook followers over the 18 days a 9.85% growth. We now have 104,718 followers Facebook.

## Twitter:

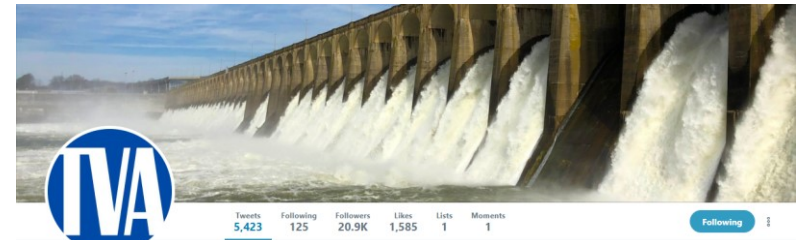
Number of Tweets: 88

Impressions: 996,400

Overall Reach **1,684,800**

Retweets 1,896

Engagement Rate: **4.1%** (National average is 0.05%)



[@TVAnews](https://twitter.com/TVAnews)

We gained 1,200 new Twitter follower over the period, a 6.26% growth. We now have 20,800 Twitter followers.



# TVA Natural Resources Update

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September 12, 2019

Rebecca Hayden, Senior Manager of Recreation and Shoreline Management  
Natural Resources

# Natural Resources Focus Areas

**Reservoir  
Lands  
Planning**

**Section 26a  
& Land Use  
Agreements**

**Public Land  
Protection**

**Land &  
Habitat  
Stewardship**

**Nuisance &  
Invasive  
Species  
Management**

**Cultural  
Resource  
Management**

**Water  
Resource  
Stewardship**

**Recreation**

**Ecotourism**

**Public  
Outreach &  
Information**

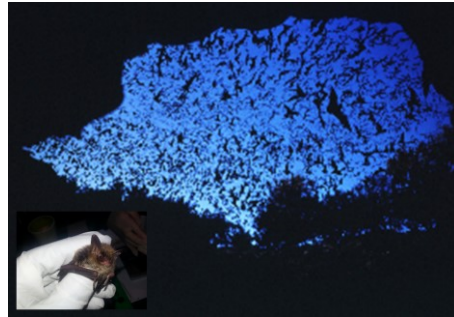
# FY19 Year End Summary

- 306 stewardship projects implemented in 112 counties
- 72 recreation projects to expand opportunities and increase tourism
- 4,100 volunteers through 34 organizations supported to result in 250 tons removed from lakes and public lands
- 18,000 children engaged through environmental education programs including TVA Science Kids World Water Monitoring program
- Provided quick response of restoration efforts impacted by flood damage



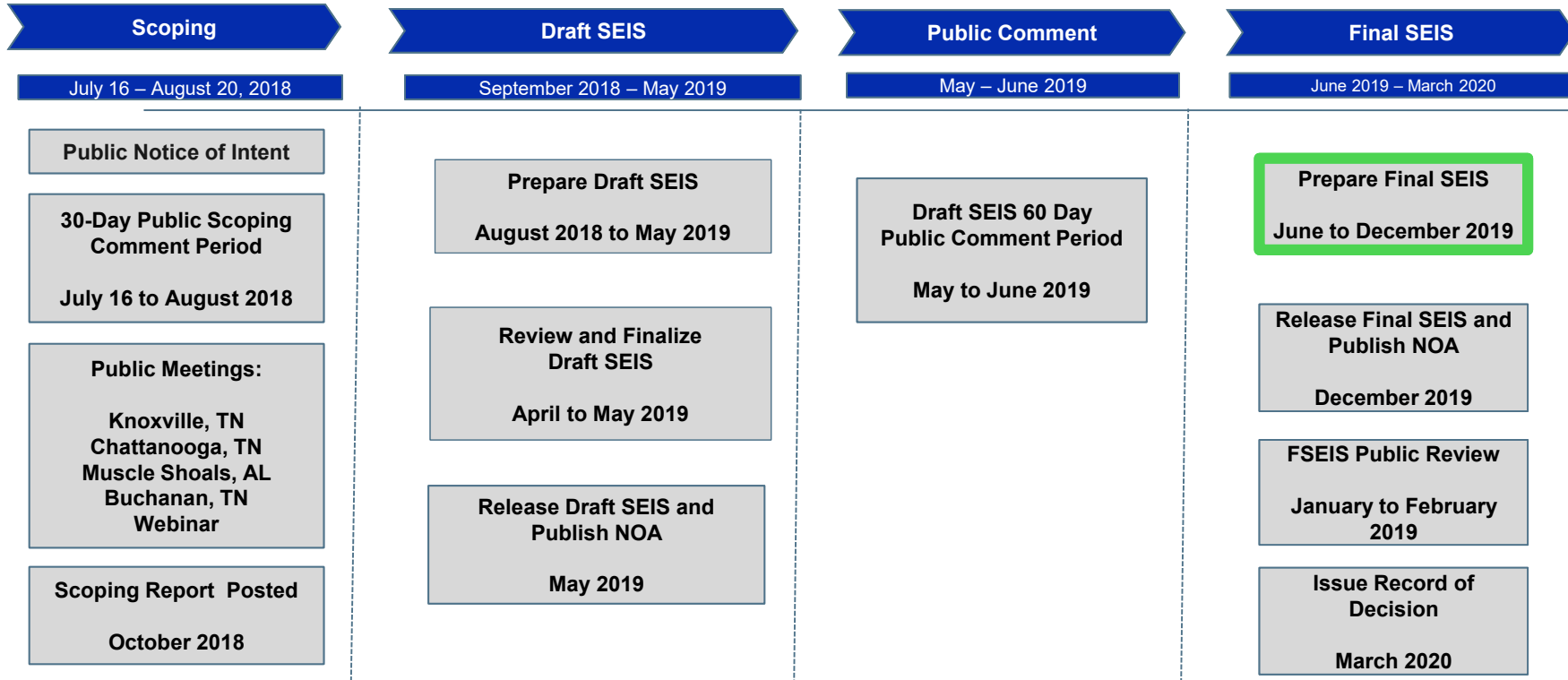
# FY19 Year End Summary

- 2,340 parcels assessed, with 2,636 assets identified as part of the asset inventory initiative
- Assessed 9,874 acres of TVA public lands through land condition assessment efforts
- Collaborated to enhance wildlife and native plant habitats
- Supported aquatic ecology through habitat improvements and rearing and release of selected native fish





# 2020 Natural Resource Plan Update Schedule



Please note the schedule is subject to change.



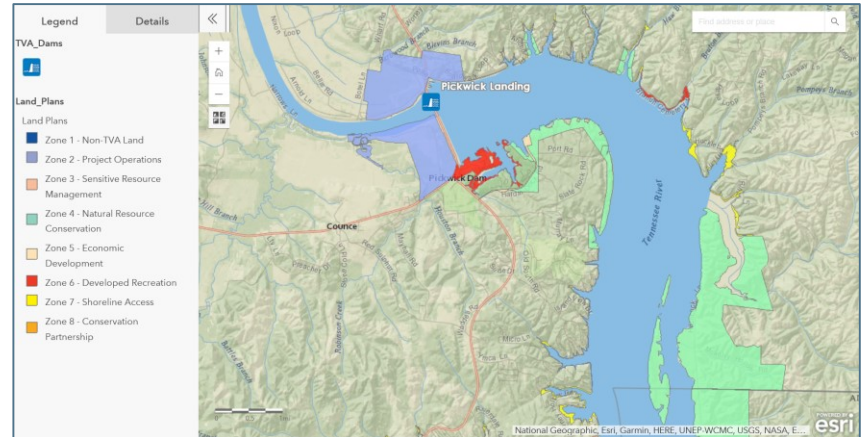
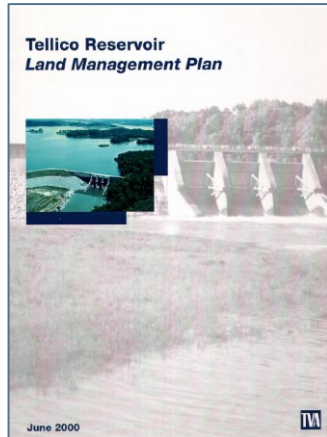
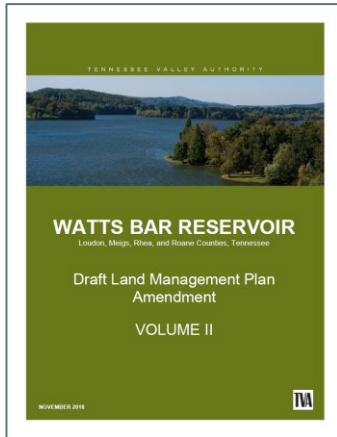
# Natural Resource Plan Update

- Hosted 4 public open houses
- Webinar
- Used web and social media platforms to inform and solicit comments
- Received 48 comments related to:

Plan implementation and metrics	Water intake protection	Public outreach and education
NEPA procedures	Shoreline development impacts	Water monitoring
River operations	River-based recreation	Aquatic ecology
Staff and funding capacity	Trails	Water pollution and litter
Cultural resource preservation	Ecotourism	Watershed partnerships
Cultural resource management plan	Public recreation	Preserving public lands
Consultation	Forest and habitat management	Climate change

# Reservoir Lands Planning

- Watts Bar Reservoir Land Plan Amendment - due Fall 2019
- Tellico Reservoir Land Management Plan – in progress, public scoping scheduled to begin Winter 2020
- Reservoir Land Planning Viewer Map <https://www.tva.gov/landplans>
  - Interactive land planning zone map with address search box and optional aerial imagery background





# Land Use Activities

- Major land use actions include requests for long term use of public lands, easement requests (utility, recreation, etc.) and deed modifications
- 18 completed disposal actions with 31 in process
- 1,500 Section 26a permits issued and 30 land use actions implemented to support lake access and economic development



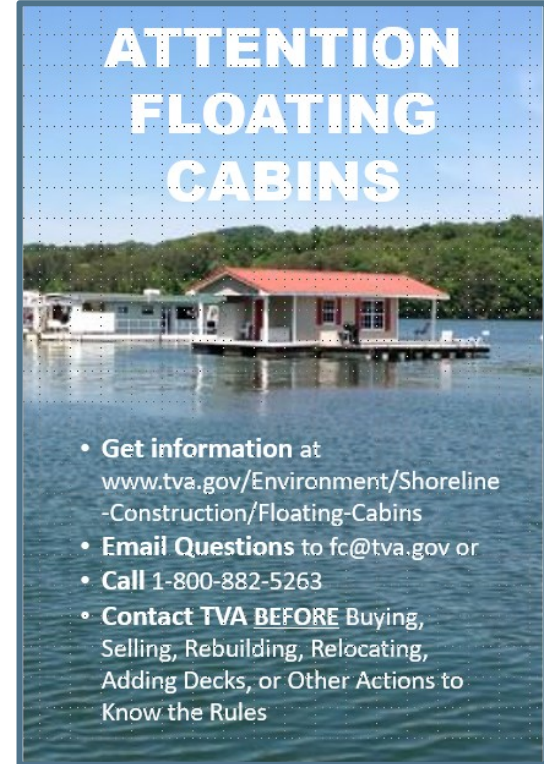
# Floating Cabin Program – Progress Report

- Phase 1 Rules effective October 1, 2018
- Phase 2 Rules target Fall 2019
  - Electrical, wastewater, flotation, and mooring
  - Permitting, maintenance, rebuilds, alterations, combining, transfers, and relocations



# Floating Cabin Program

- Stakeholder Advisory group
- Engagement and Information
  - Marina visits
  - One-on-one conversations
  - Updated web pages
  - Informational posters
  - TN / KY Marina Association
  - Registration form

A poster with a blue background and a grid pattern. The text 'ATTENTION FLOATING CABINS' is written in large, white, bold, sans-serif capital letters at the top. Below the text is a photograph of a white floating cabin with a red roof on a body of water. At the bottom of the poster, there is a list of contact information in white text.

**ATTENTION  
FLOATING  
CABINS**

- **Get information at**  
[www.tva.gov/Environment/Shoreline-Construction/Floating-Cabins](http://www.tva.gov/Environment/Shoreline-Construction/Floating-Cabins)
- **Email Questions** to [fc@tva.gov](mailto:fc@tva.gov) or
- **Call 1-800-882-5263**
- **Contact TVA BEFORE Buying, Selling, Rebuilding, Relocating, Adding Decks, or Other Actions to Know the Rules**

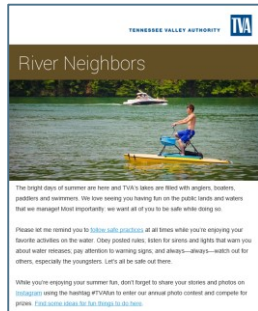
# Asian Carp Partnership

- Four Asian carp invasive species in the Tennessee River Watershed: Grass, Black, Bighead and Silver Carp
- TVA is a member of the Mississippi Interstate Cooperative Resource Association
- TVA partners to increase awareness of Asian carp concerns



# Community Engagement

- 615 outreach events in 93 valley counties
- 112 counties participating in our National Geographic Tennessee River Valley MapGuide and film launch
- Increased interest in TVA social media, River Neighbors and web stories, and earned 110 good news stories
- Supported Tennessee RiverLine Initiative





# My Lake Guntersville Campaign

The W.E.T. Foundation and its partners support the protection and preservation of Lake Guntersville.

- Raise awareness and money to address threats to a healthy and safe lake
- Manage invasive species including plants, zebra mussels and Asian Carp
- Halt island erosion, water contamination and trash

Continue social media campaign to increase awareness

[www.mylakeguntersville.com](http://www.mylakeguntersville.com).



# Award Winning Web Site

- The “*My Lake Guntersville*” campaign microsite was received a **regional economic development communication award** by the Southern Economic Development Council.
- The public awareness and conservation campaign’s goal is to protect and preserve Lake Guntersville as a natural resource and economic driver for the region and make the public aware of how they can help address these issues for sustainability of the reservoir.



PROTECT. PLAY. PRESERVE.

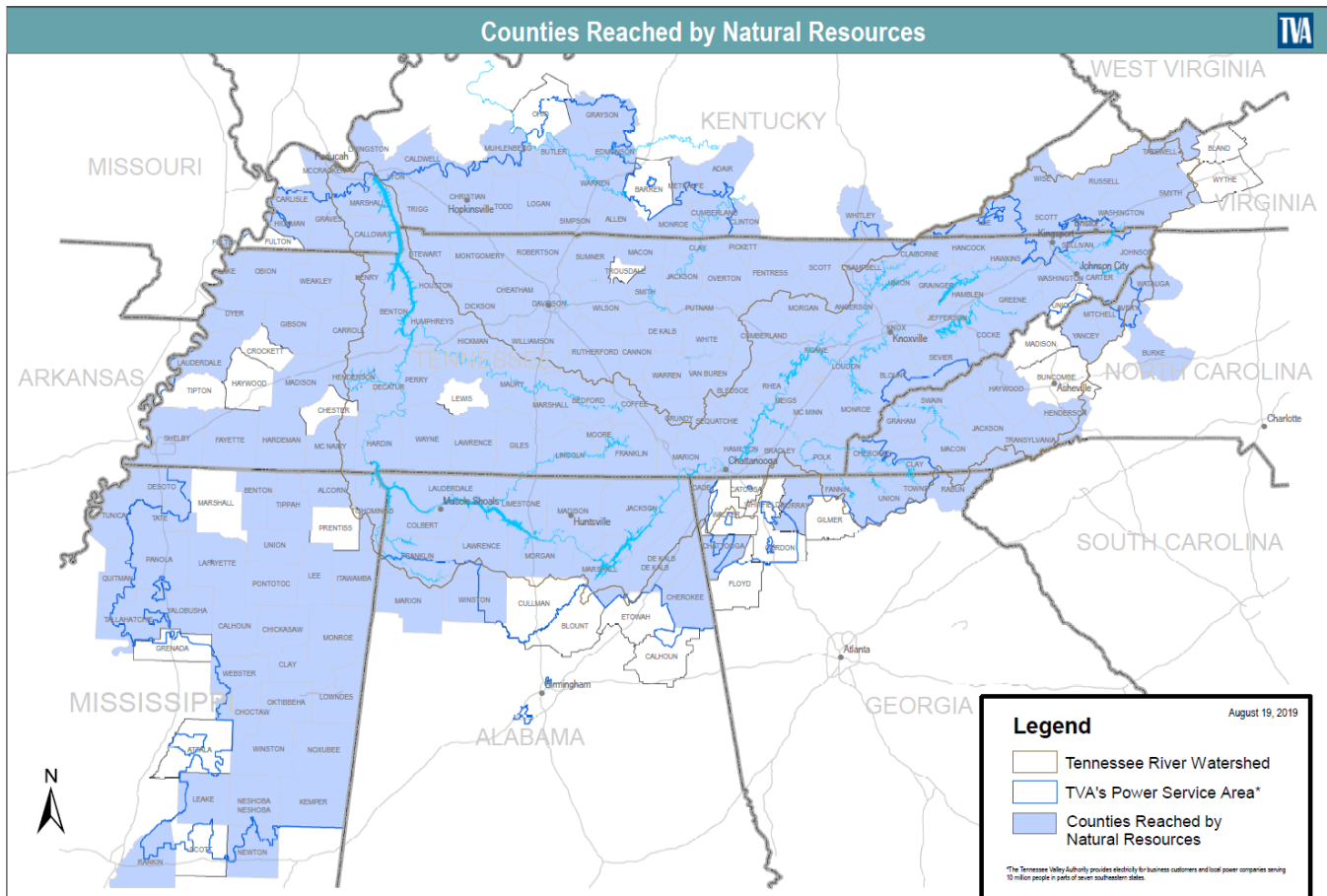
[www.mylakeguntersville.com](http://www.mylakeguntersville.com)

# Looking Forward to FY20

- Complete 2020 Natural Resource Plan
- Floating Cabin regulations
- Increase community engagement
- Continue work on the flood damaged areas
- Implement stewardship projects



# Counties Reached Through Stewardship Efforts





**Questions**



# Comments

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# Announcements

- 11<sup>th</sup> term – April 2020
- Next meeting date and location
- Meeting reimbursements



Wrap Up and Adjourn

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*Thank you and please travel safely!*