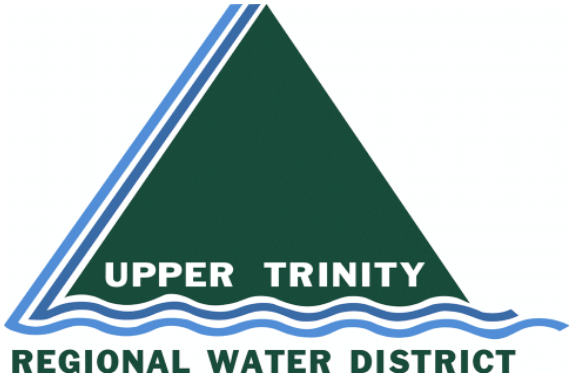
Development of Lake Ralph Hall
Project Overview



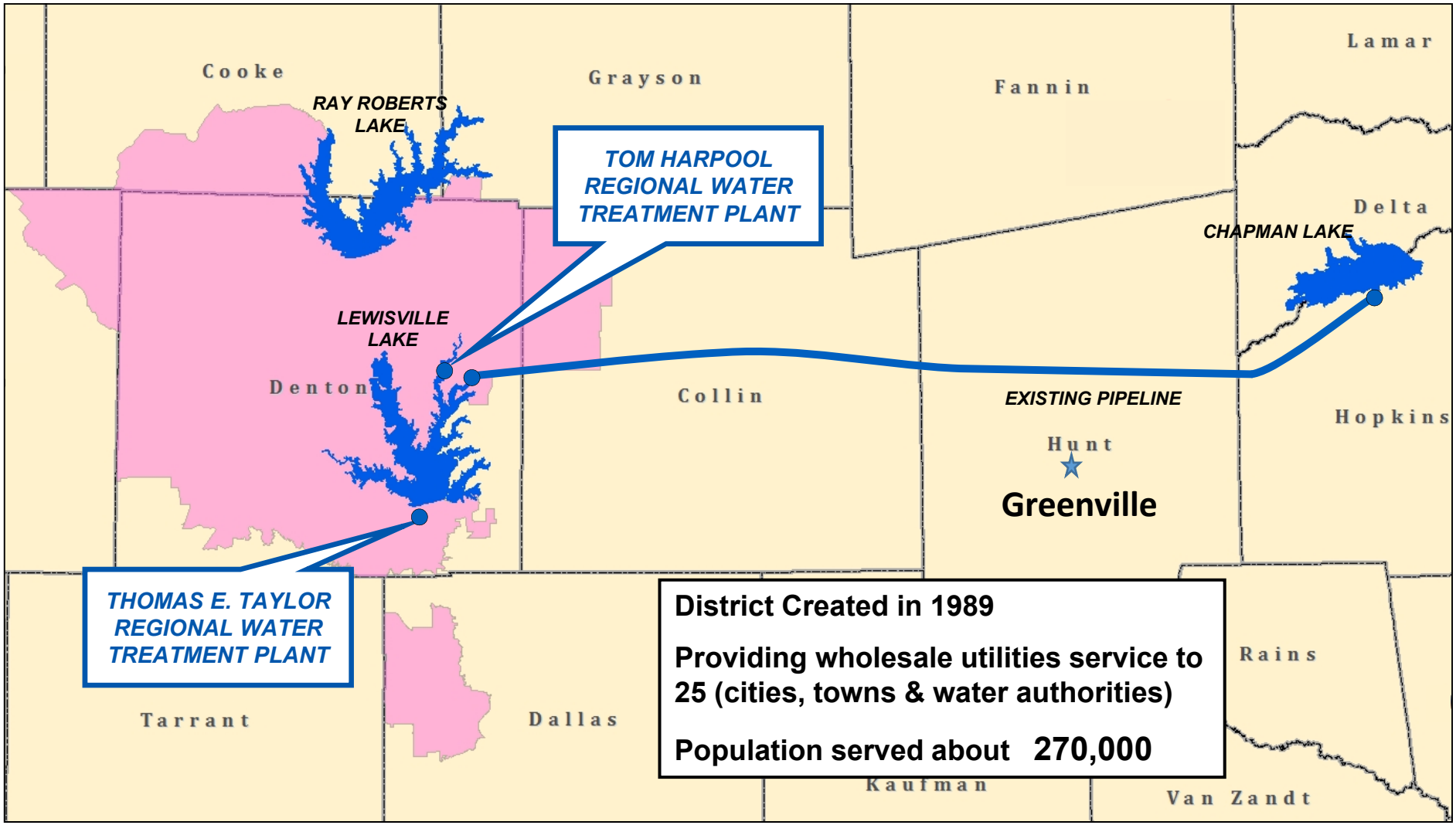


Presentation by:
Larry N. Patterson, P.E.
Executive Director

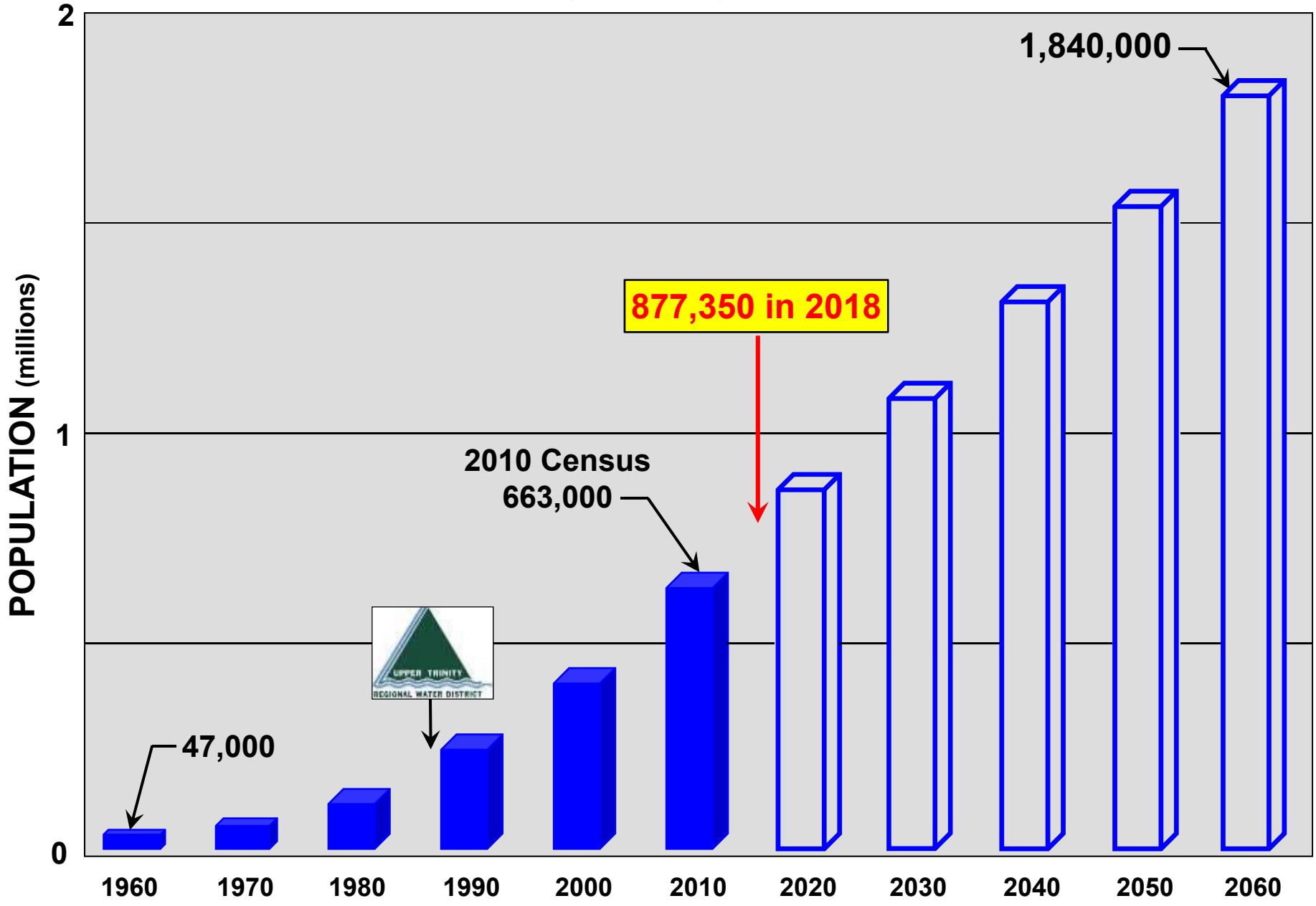
Greenville Rotary Club
Greenville, Texas

July 18, 2018

Upper Trinity Regional Water District
Water System Service Area & Sources

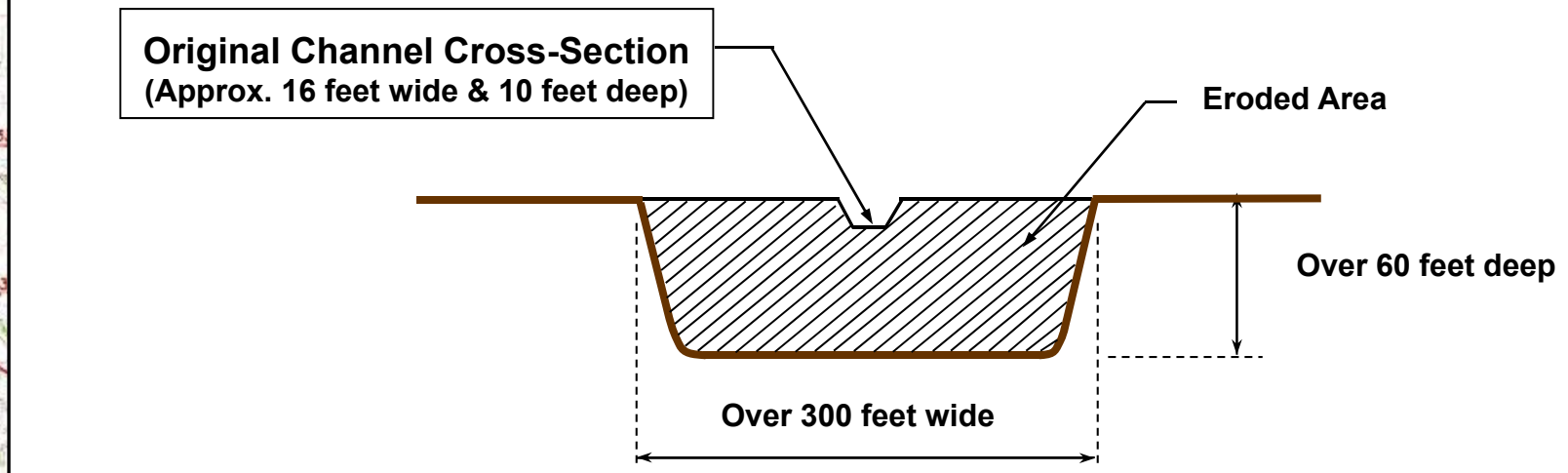


Denton County Population Growth



North Sulphur River

- River channelized in the late 1920's
- Agricultural Project
- Intended to improve drainage

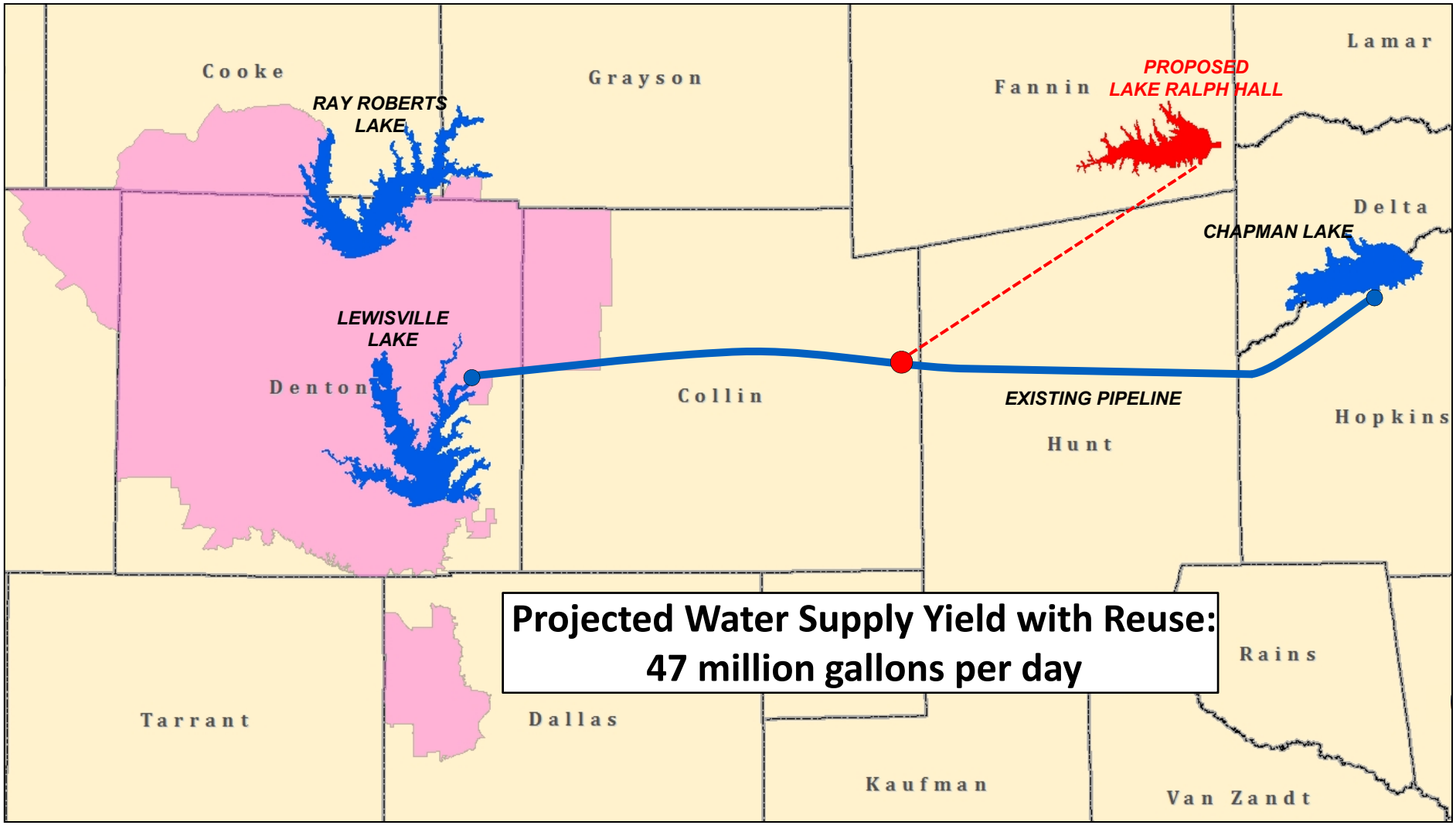


Current Channel Cross-Section

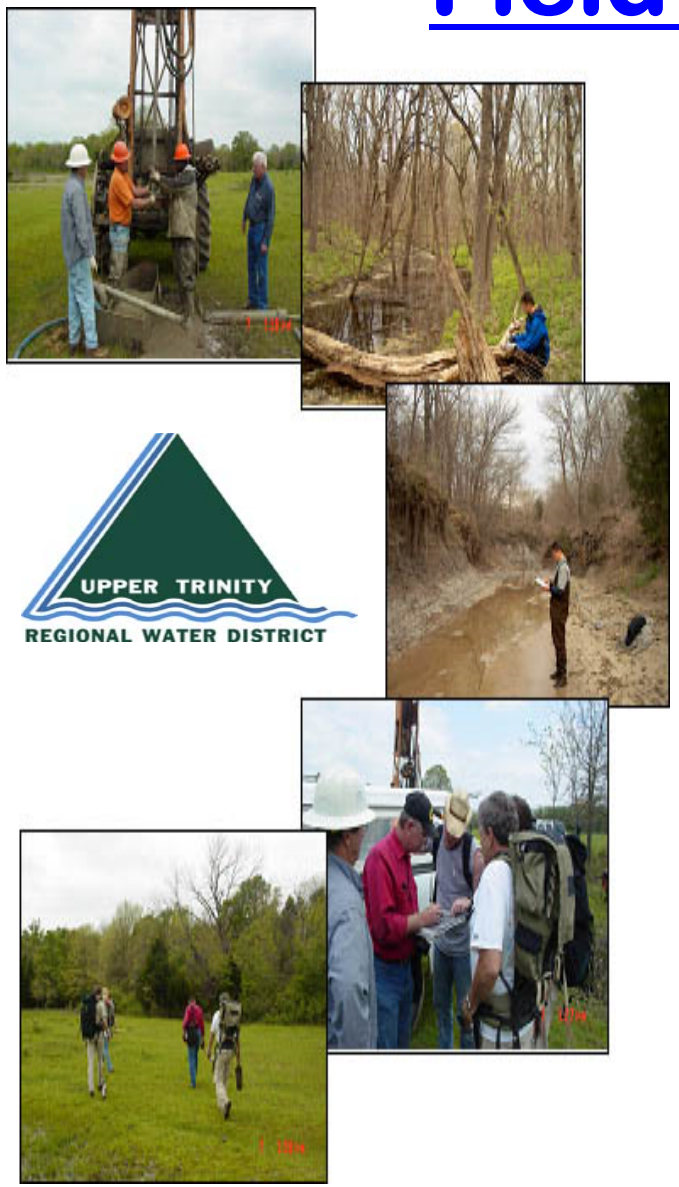


Channel Upstream of State Highway 34 Bridge – Nov. 2008

Upper Trinity Regional Water District
Water System Sources



Lake Ralph Hall
Field Study Findings



UPPER TRINITY
REGIONAL WATER DISTRICT

- "Unique Site" - - Deep Channel
- No major Cultural Resources impacted
- No Cemeteries / Oil & Gas Wells / Transmission Lines
- Reasonable mitigation requirements
- Improves environmental conditions
- Promotes Economic Development
- Local Support for Lake

"A Great Lake Site"

Outreach to Stakeholders

Fannin County & City of Ladonia

Local land owners

U.S. Army Corps of Engineers

Federal (USFS, EPA & USFW)

National Wildlife Federation

State (TCEQ, TWDB & TPWD)

Lone Star Chapter Sierra Club

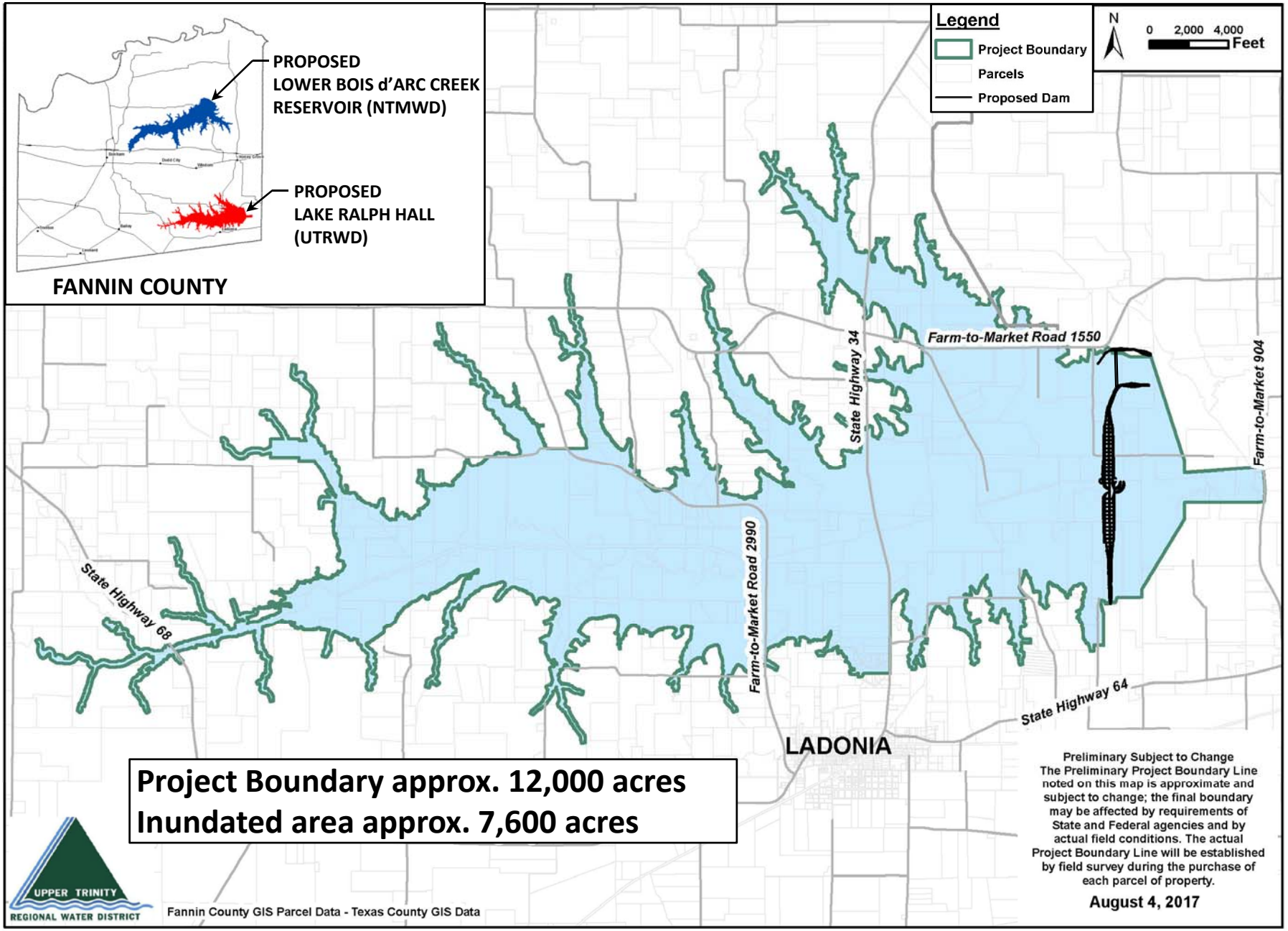
Natural Resources Conservation Service

Texas Committee on Natural Resources



Regulatory & Environmental Groups – Site Visits

Lake Ralph Hall



Yes to Lake Ralph Hall

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

WATER USE PERMIT

Permit No. 5821 Type §§ 11.121, 11.085

Permittee:	Upper Trinity Regional Water District	Address:	P.O. Drawer 305 Lewisville, Texas 75067
Filed:	August 13, 2004	Granted:	December 11, 2013
Purposes:	Municipal, Industrial, Agricultural, and Recreation	Counties:	Fannin, Collin, Cooke, Dallas, Denton, Grayson, and Wise
Watercourse:	North Sulphur River, Tributary of the Sulphur River	Watershed:	Sulphur and Trinity River Basins

WHEREAS, Upper Trinity Regional Water District (UTRWD, Applicant or Permittee) applied for a water use permit to construct and maintain a dam and reservoir (Lake Ralph Hall) with a maximum capacity of 180,000 acre-feet of water and a surface area of approximately 8,500 acres, on the North Sulphur River, tributary of the Sulphur River, Sulphur River Basin in Fannin County for recreation purposes; and

WHEREAS, Applicant seeks to divert and use not to exceed 45,000 acre-feet of water per year from the perimeter of Lake Ralph Hall for municipal, industrial, and agricultural purposes at a maximum combined diversion rate of 205 cfs (92,000 gpm); and

WHEREAS, Applicant indicates that diversions from the reservoir may be "overdrafted" as a part of the system operation with existing UTRWD supplies from other basins to achieve maximum conservation of limited water resources; and

WHEREAS, Applicant indicates that of the 45,000 acre-feet of water per year requested, 34,082 acre-feet of water per year is available on a firm basis; and

---

This water use permit is issued subject to all superior and senior water rights in the Sulphur River Basin.

Permittee agrees to be bound by the terms, conditions, and provisions contained herein and such agreement is a condition precedent to the granting of this permit.

This water use permit is issued subject to the Rules of the Texas Commission on Environmental Quality and to the right of continuing supervision of State resources exercised by the Commission.

Water Rights Permit # 5821



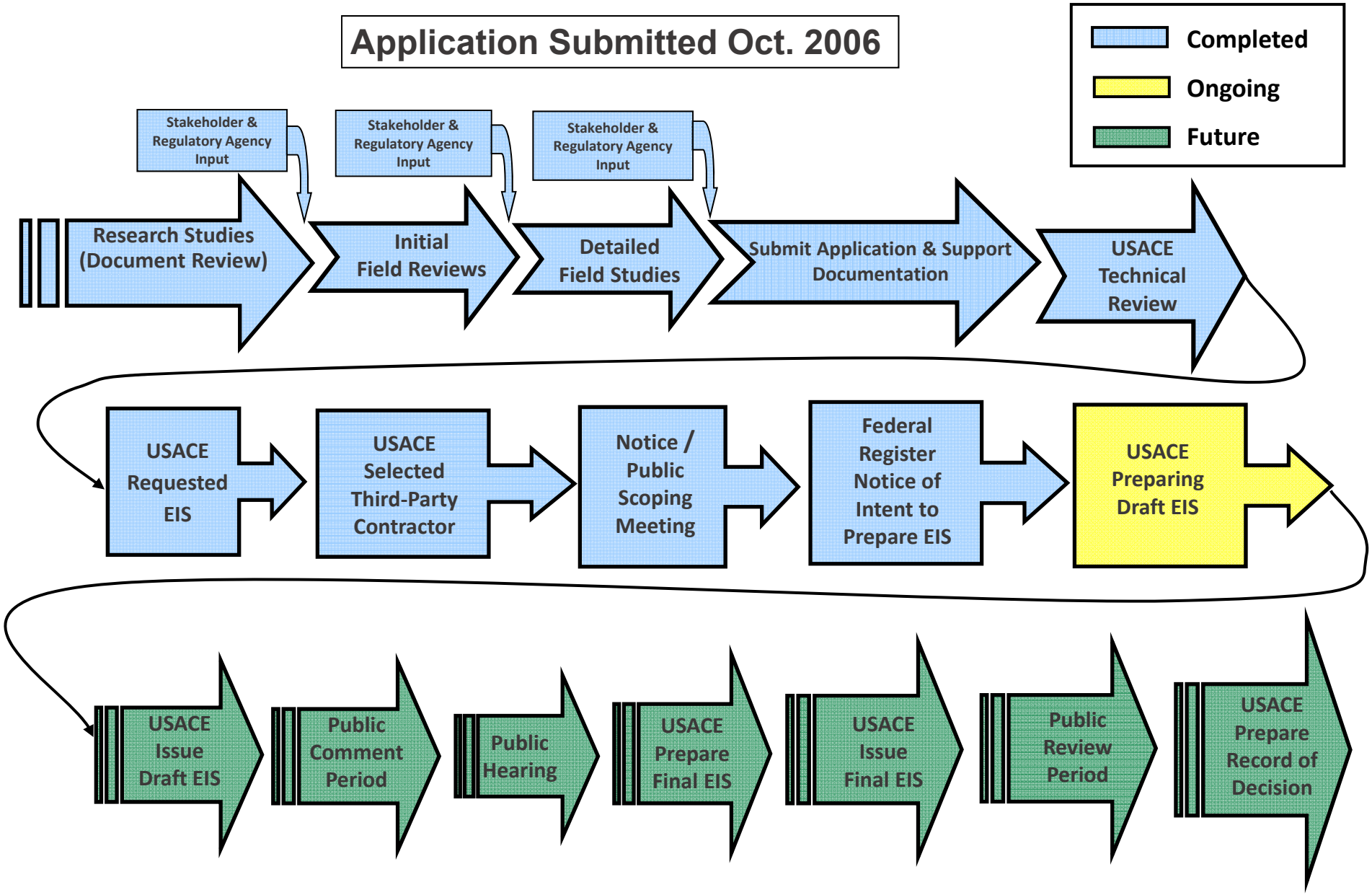
Lake Ralph Hall

Issued: December 11, 2013

Final: May 2017

UPPER TRINITY
REGIONAL WATER DISTRICT

USACE 404 Permit Process



404 Permitting Activities



Workshops with USACE and state/ federal agencies



Cultural Resources Public Information meeting

(Draft EIS anticipated release Fall 2018)

UPPER TRINITY
REGIONAL WATER DISTRICT

Lake Ralph Hall

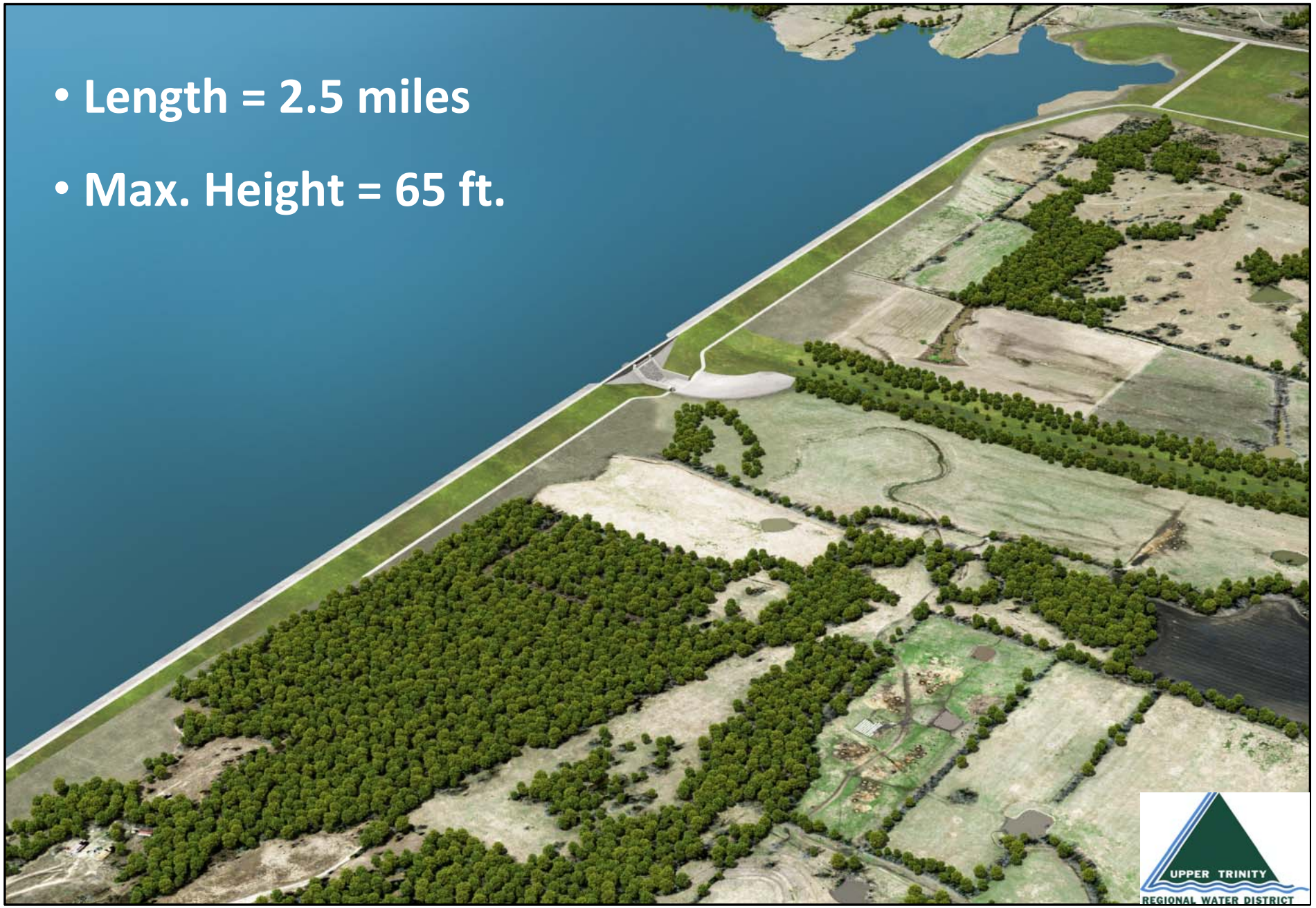
On-Going Activities

- Refinement of initial design concepts:
  - Dam & Spillway
  - Intake & Raw Water Pump Station
  - Utility Relocations
  - Roads & Bridges
  - Raw Water Transmission Pipeline
- Land Acquisition Program
- Coordination with Fannin County & Ladonia
- Development of Lake Use Concepts

UPPER TRINITY
REGIONAL WATER DISTRICT

Lake Ralph Hall

Preliminary Design - - Leon Hurse Dam



SH 34 Bridge - - Rendering



Lake Ralph Hall - - Summary

- Suitable site for a Lake
- Improves environmental conditions at site
- Water for UTRWD & North Sulphur River Basin
- Jobs for locals & surrounding communities
- Provides recreational opportunities
- Potential long term Economic benefits

UPPER TRINITY
REGIONAL WATER DISTRICT

Lake Ralph Hall

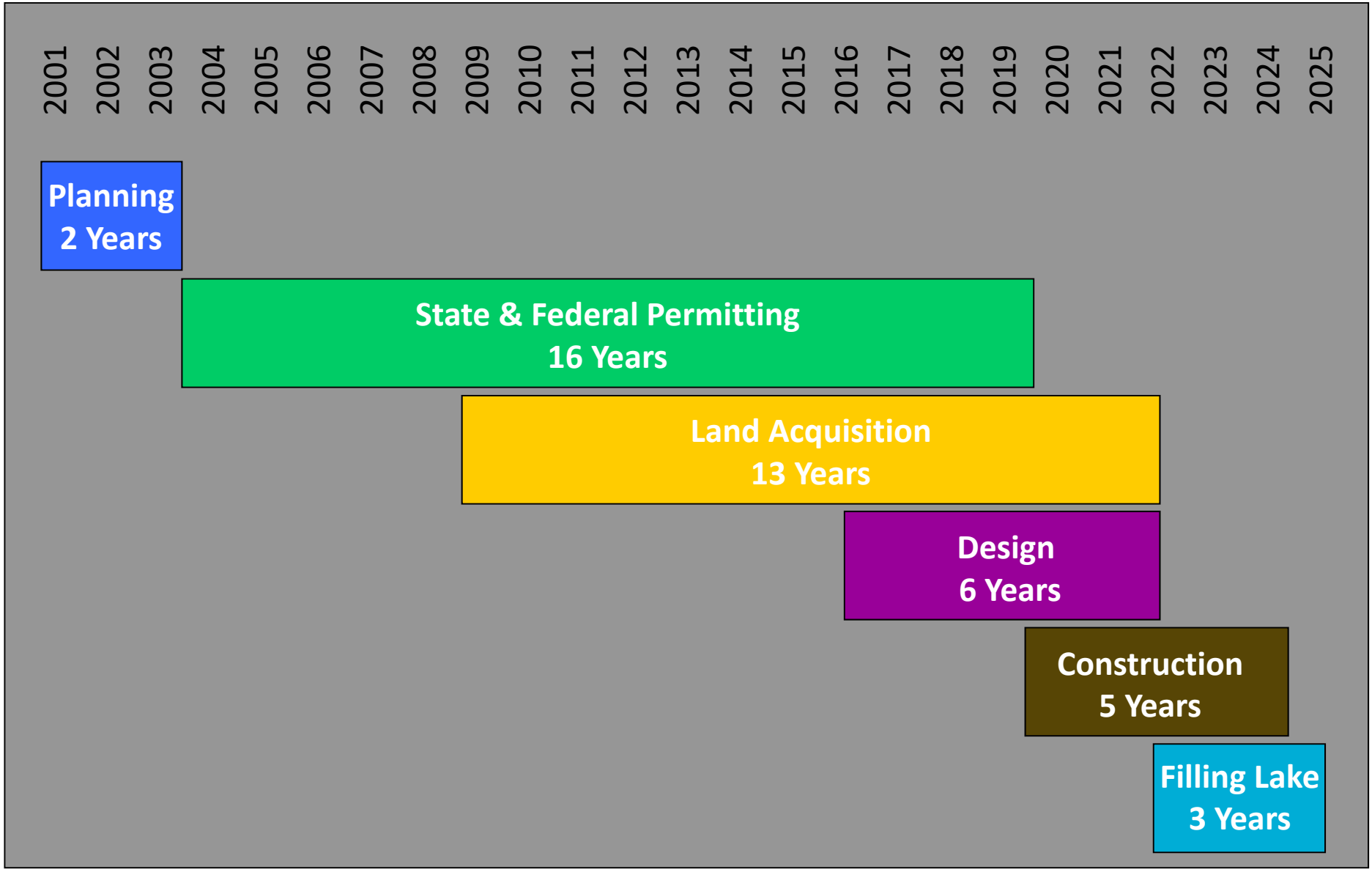
Next Steps for Lake Ralph Hall

- Release of Draft Environmental Impact Statement
- Complete Preliminary Design of key project elements
- Acquire Federal 404 construction permit
- Complete Land Acquisition
- Finalize Texas Water Development Funding
- Prepare Final Design & construction project

UPPER TRINITY
REGIONAL WATER DISTRICT

Lake Ralph Hall

Lake Ralph Hall Schedule



With Vision and Courage, We Plan



QUESTIONS

UPPER TRINITY
REGIONAL WATER DISTRICT



Lake Ralph Hall

www.utrwd.com

(972) 219-1228