

East Fork Reuse Project

- ◆ *Concept*
- ◆ *Facilities*
- ◆ *Projected Supply*
- ◆ *Opinion of Probable Cost*
- ◆ *Environmental Considerations*
- ◆ *Project Status*

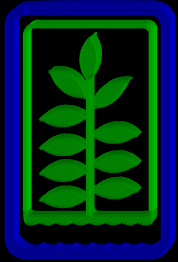




Concept

- ◆ *Downstream of Lake Lavon, wastewater treatment plants discharge reclaimed water that originates from NTWMD water sources (Lavon, Texoma, Chapman)*
- ◆ *Divert this reclaimed water to augment existing NTMWD water supply*

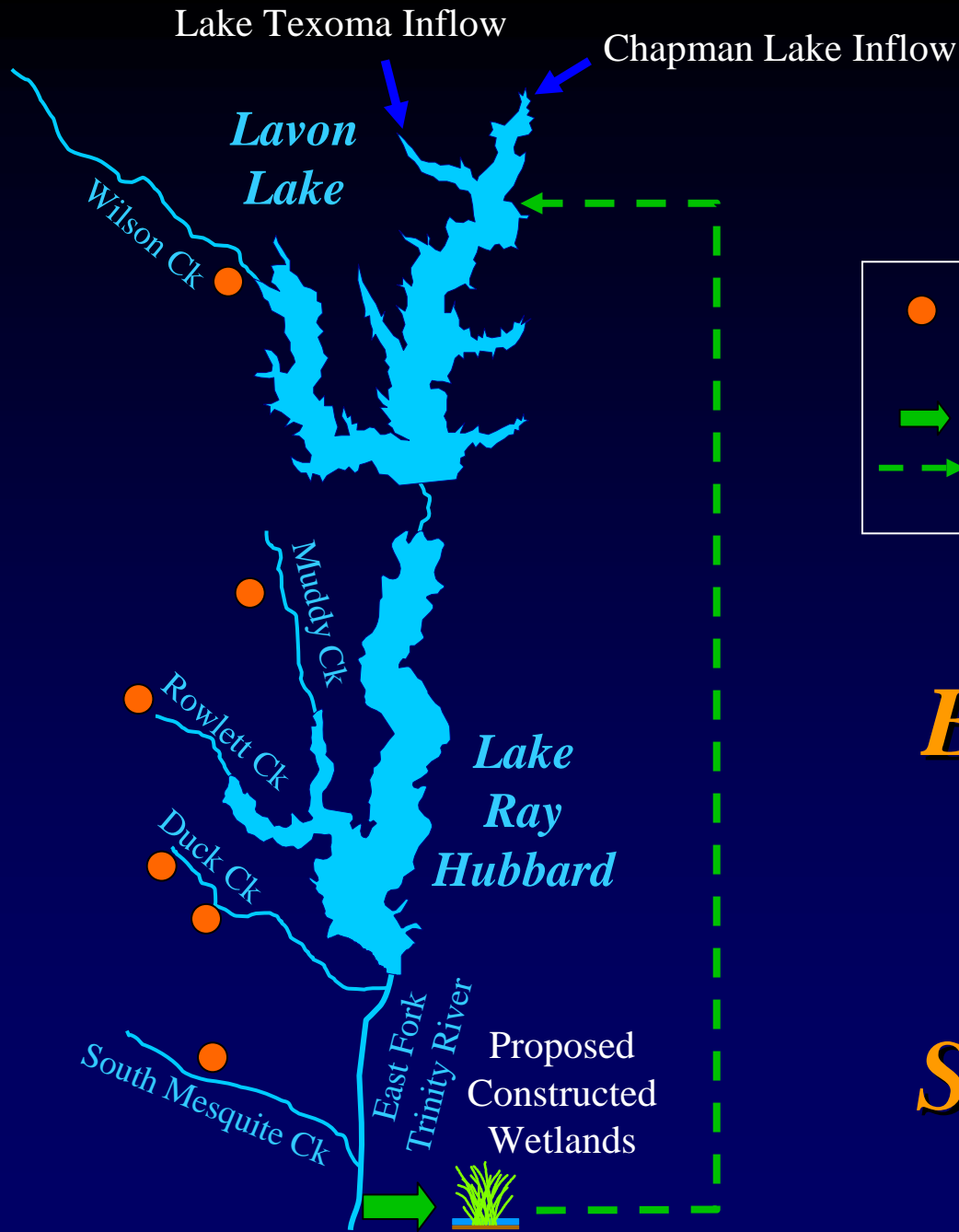
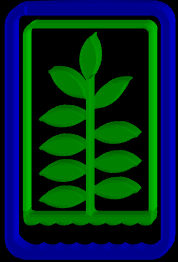




Facilities

- ◆ *Diversion pump station on the East Fork of the Trinity River*
- ◆ *1,840-acre constructed wetlands to improve water quality*
- ◆ *Conveyance pump station*
- ◆ *Raw water transmission pipeline*
- ◆ *Discharge structure at Lake Lavon*
- ◆ *Visitor and education center*





- Major Existing/Proposed WWTP
- Diversion Point
- - - - - Future Transfer Pathway

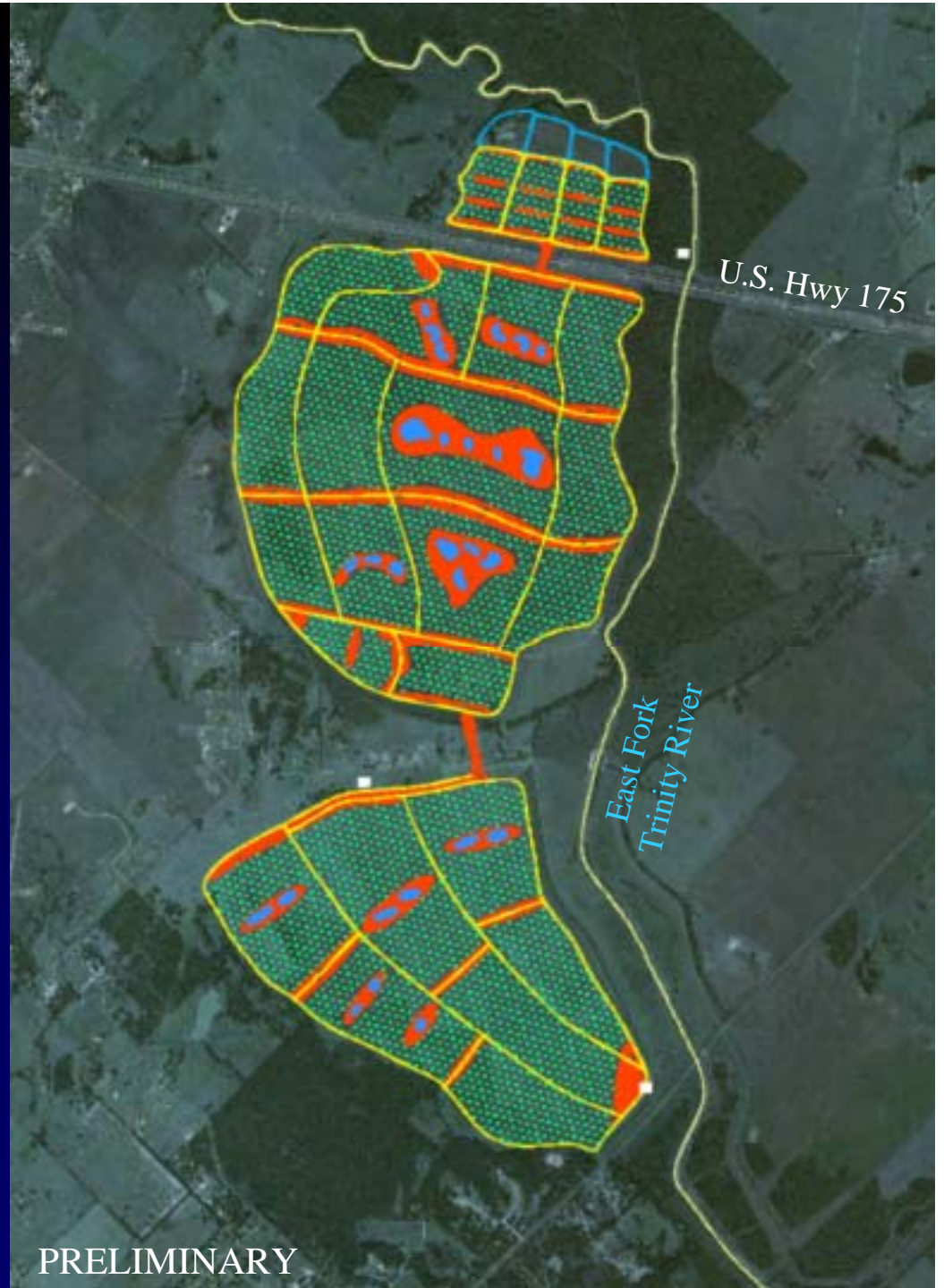
East Fork Reuse Project Schematic

Proposed NTMWD Diversion

PRELIMINARY: 11/30/04



***EFRP
Wetlands
Conceptual
Layout***

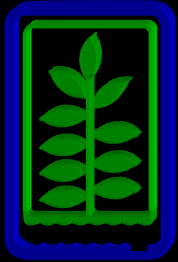




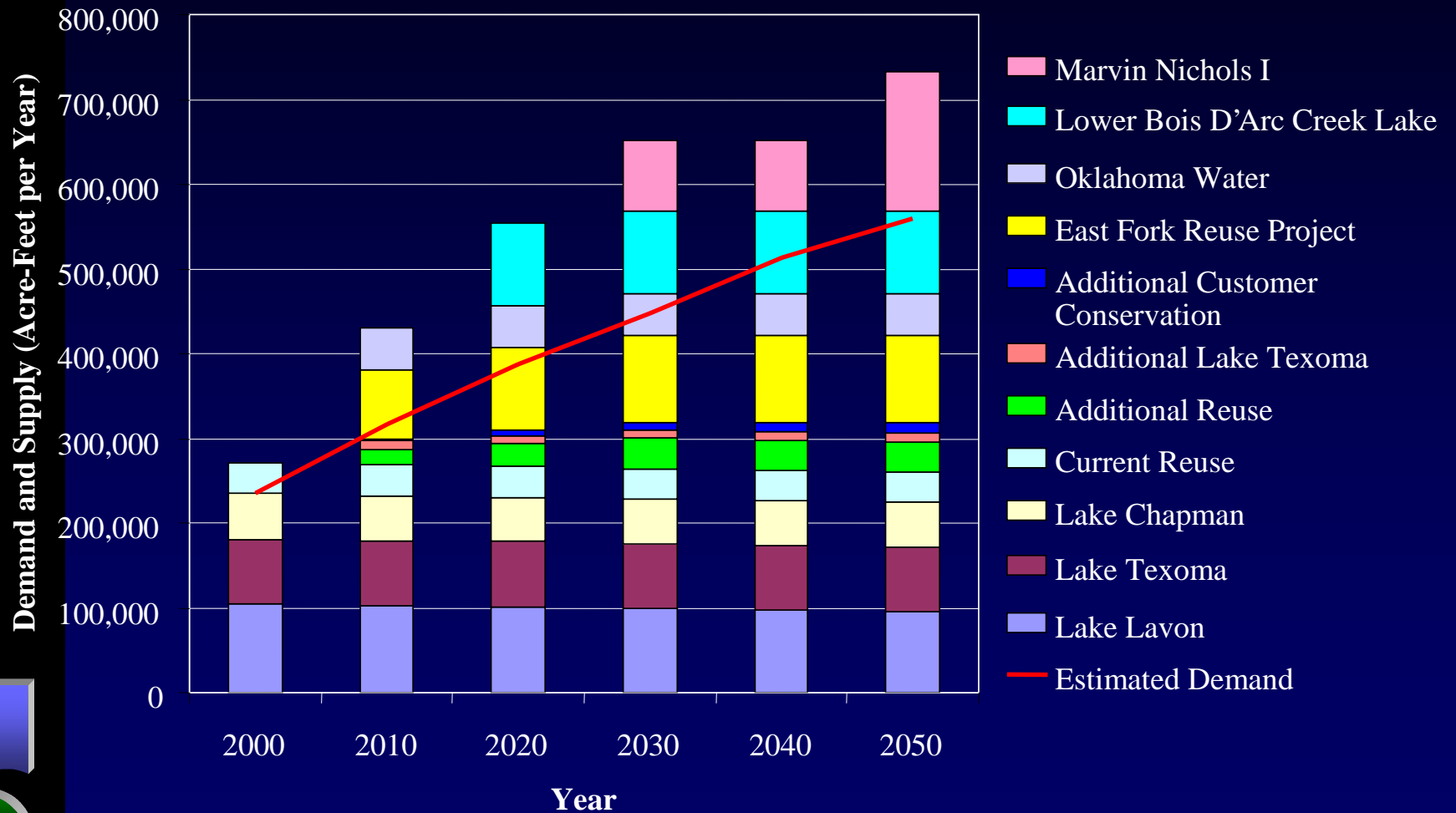
Projected Supply

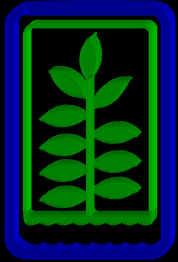
<i>Year</i>	<i>Projected Supply (ac-ft/yr)</i>
<i>2000</i>	<i>0</i>
<i>2010</i>	<i>81,400</i>
<i>2020</i>	<i>96,400</i>
<i>2030</i>	<i>102,000</i>
<i>2040</i>	<i>102,000</i>
<i>2050</i>	<i>102,000</i>





Projected Supply

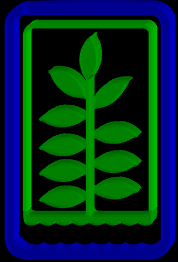




Opinions of Probable Cost

- ◆ *Capital: \$246,010,000*
- ◆ *Annual:*
 - ✓ First 30 years: \$24,869,000
 - ✓ After 30 years: \$6,997,000
- ◆ *Unit:*
 - ✓ First 30 years: \$0.82 per 1,000 gallons
 - ✓ After 30 years: \$0.21 per 1,000 gallons





Environmental Considerations

- ◆ *Would provide 1,840 acres of wetlands that will serve as wildlife habitat*
- ◆ *Would disrupt approximately 200 acres of existing wetlands, which would be restored.*
- ◆ *Would improve water quality conditions in East Fork Trinity River*
- ◆ *16.7 MGD of reclaimed water originating from NTWMD sources would be allowed to bypass the diversion point to maintain instream flow.*
 - ✓ *Greater flowrate than the low flow that existed prior to the development in recent decades.*

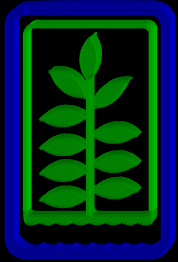




Status

- ◆ *The East Fork Reuse Project is in the planning stages*
- ◆ *NTMWD has submitted a water rights permit application to the TCEQ*





NTWMD Customer Additional Water Conservation

- ◆ *Model Water Conservation Plan for North Texas Municipal Water District Member Cities and Customers*
 - ✓ Public and school education (already included in water demand projections)
 - ✓ Water system audit, leak detection and repair, pressure control
 - ✓ Water conservation pricing structure
 - ✓ Water waste prohibition





END

