Somervell County Water Supply Project

- Raw Water Supply in 2006 Brazos G Water Plan
- Raw Water Supply Facilities Built
  - Off-channel Wheeler Branch Reservoir
  - Pump Station on Paluxy River
  - Pipeline
- Next Step – Build Treatment Plant and Transmission System

Somervell County Water Supply Project

- TWDB – Treatment Plant and Transmission Not Consistent with 2006 Brazos G Water Plan
- Supply for Potable and High Quality Process Water at Comanche Peak SES
- Amendment:
  - Add development of treatment plant
  - Add development of transmission system
  - Authorize use of water for municipal, manufacturing, steam electric, mining, irrigation, and livestock needs

Somervell County Water Supply Project

- Eligible for Minor Amendment
  - No over allocation
  - No new reservoir
  - No significant impact on flows
  - No significant impact on water planning or strategies
  - No change to legal requirements
- If Planning Group or TWDB Disagrees, Seek Major Amendment

Somervell County Water Supply Project

- Description of Strategy
  - Phases 1-4 shortly after 2010
    - 1.5 mgd plant
    - 840 acre-feet per year
  - Phases 5-13 future
    - 3.5 mgd plant expansions (to 5 mgd total)
    - Additional 1,160 acre-feet per year (2,000 ac-ft/yr total)

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Job No.: [SOM07402]
Location: H:\W_WW_PLANNING\DELIVERABLES\06-Deliverable_04-18-08\[Fig_1.1]-Initial_Water_System.mxd
Updated: Friday, April 18, 2008

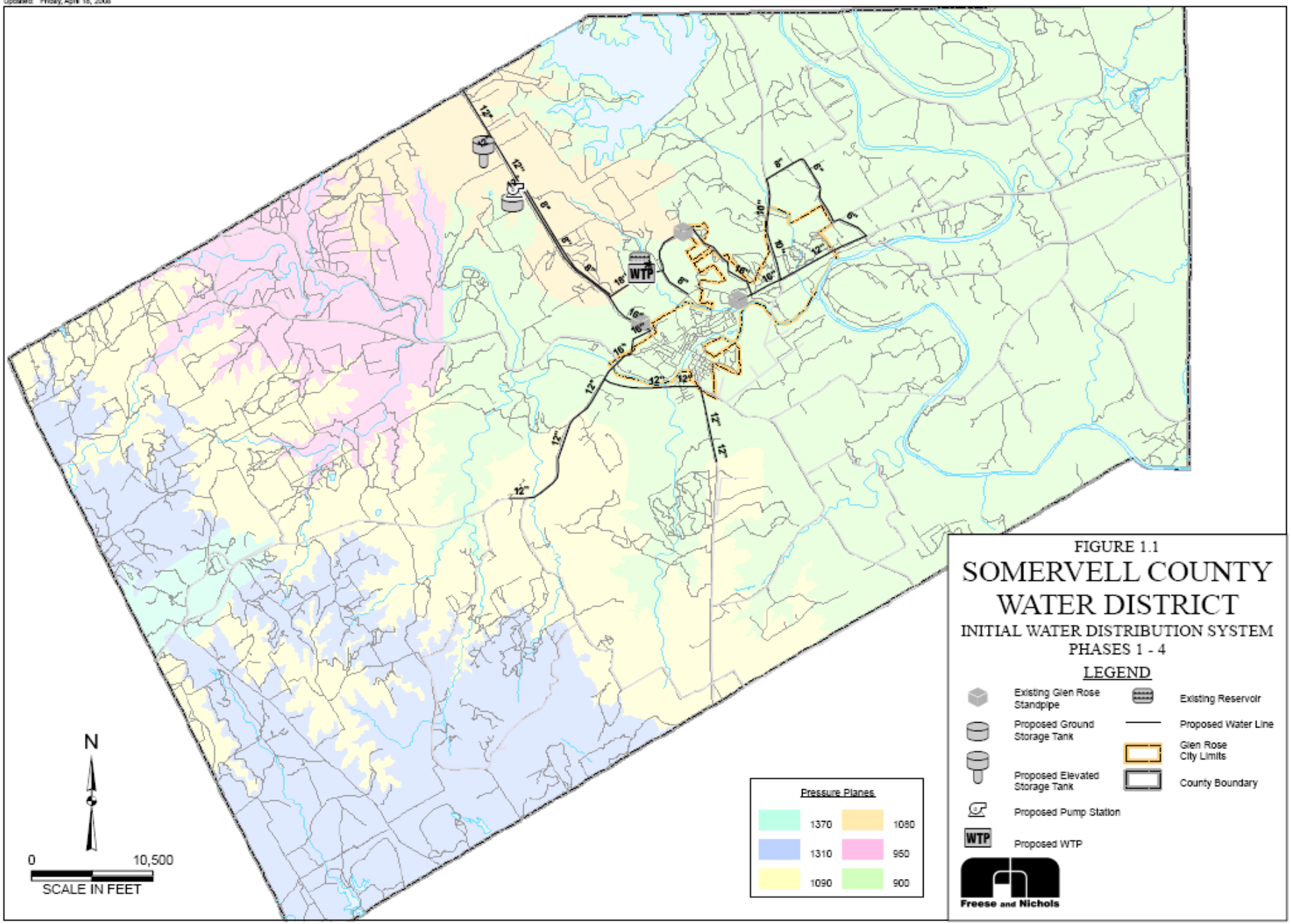

FIGURE 1.1

SOMERVELL COUNTY WATER DISTRICT

INITIAL WATER DISTRIBUTION SYSTEM PHASES 1 - 4

LEGEND

- Existing Glen Rose Standpipe
- Existing Reservoir
- Proposed Ground Storage Tank
- Proposed Water Line
- Glen Rose City Limits
- Proposed Elevated Storage Tank
- County Boundary
- Proposed Pump Station
- Proposed WTP

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Location: H:\W_WW_PLANNING\DELIVERABLES\08-Deliverable_04-18-08\(Fig_1.2)-2030_Water_System.mxd
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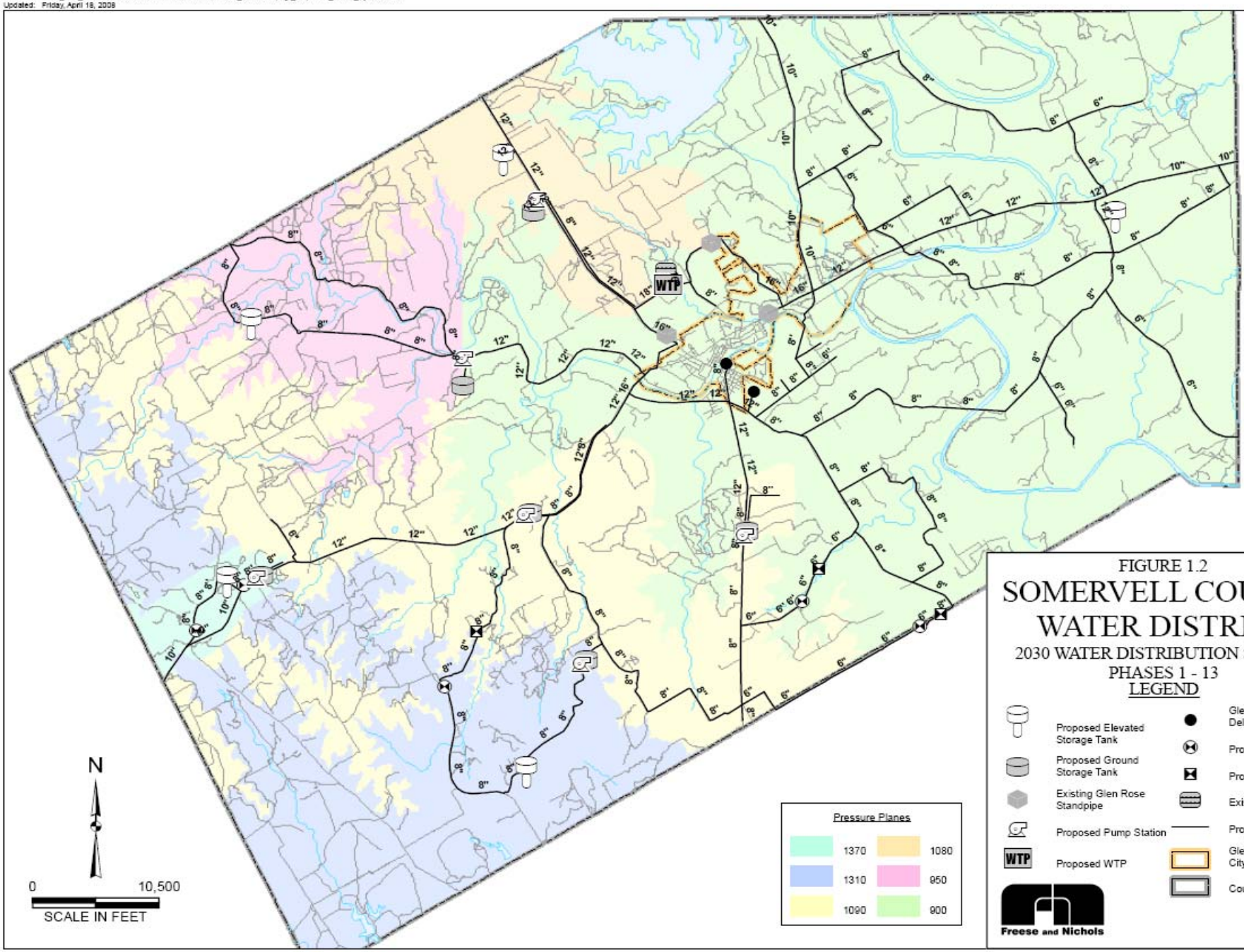

FIGURE 1.2

SOMERVELL COUNTY WATER DISTRICT

2030 WATER DISTRIBUTION SYSTEM PHASES 1 - 13

LEGEND

- Proposed Elevated Storage Tank
- Proposed Ground Storage Tank
- Existing Glen Rose Standpipe
- Proposed Pump Station
- Proposed WTP
- Glen Rose Delivery Point
- Proposed PRV
- Proposed PP Valve
- Existing Reservoir
- Proposed Water Line
- Glen Rose City Limits
- County Boundary

Freese and Nichols

Environmental Issues - Somervell Co. Water Supply Project

Water Management Option	Somervell County Water Supply Project
Implementation Measures	Construction of a 5.0 mgd water treatment plant, pump stations, ground and elevated storage tanks, and pipelines (156.2 miles)
Environmental Water Needs/Instream Flows	Negligible impact.
Bays and Estuaries	Negligible impact.
Fish and Wildlife Habitat	Possible minor impacts on riparian corridors, depending on specific location of pipelines.
Cultural Resources	Possible low impact.
Threatened and Endangered Species	Possible low impact.

Somervell County Water Supply Project

- Cost for Phases 1-4 (2002 Prices)
  - $25,035,700 capital cost
  - $2,214,400 per year annual cost
  - $2,636 per acre-foot
  - $8.09 per 1,000 gallons
- Division of Capital Costs (2002 Prices)]
  - $6,746,800 treatment plant and high service PS
  - $15,799,200 wholesale customers
  - $2,489,600 retail distribution

Somervell County Water Supply Project

- Cost for Phases 5-13 (2002 Prices)
  - $62,049,000 capital cost
  - $5,432,900 per year annual cost
  - $4,684 per acre-foot
  - $14.38 per 1,000 gallons
  - Most costs for retail distribution

Comparison to Plan Development Criteria - Somervell County Water Supply Project

Impact category	*Comment(s)*
A. Water Supply	
1. Quantity	1. Sufficient for local needs.
2. Reliability	2. High.
3. Cost	3. Relatively high, but reasonable for a county-wide system.
B. Environmental Factors	
1. Environmental Water Needs	1. Low impact.
2. Habitat	2. Low impact.
3. Cultural Resources	3. Low impact.
4. Bays and Estuaries	4. Low impact.
5. Threatened and Endangered Species	5. Low impact.
6. Wetlands	6. Low impact.
C. Impact on Other State Water Resources	No apparent negative impacts on state water resources. No effect on navigation.
D. Threats to Agriculture and Natural Resources	None.
E. Equitable Comparison of Strategies Deemed Feasible	Done.
F. Requirements for Interbasin Transfers	Not applicable.
G. Third Party Social and Economic Impacts from Voluntary Redistribution	None.