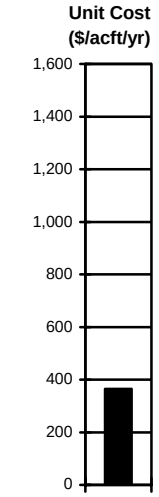
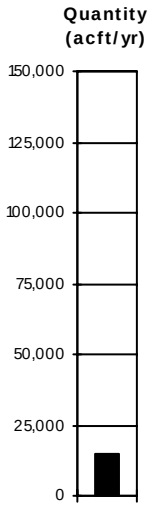
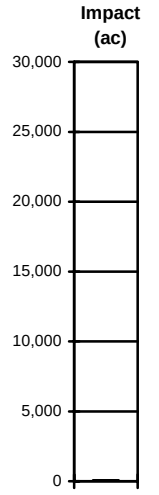
# *2006 South Central Texas Regional Water Plan*
# *Water Management Strategy Summary Sheet*




***Name:*** **Local Groundwater - Trinity Aquifer**

***Description:*** Additional Trinity Aquifer wells and associated facilities to meet needs identified in Regional Plan, as well as treatment costs associated with chlorination. Facilities vary with individual water provider. Assumption is made that new wells will connect directly into distribution system, and any piping needed to accomplish this will be accommodated in the 35% contingency costs included in cost estimates; therefore, no conveyance pipeline costs are included in estimates.

***Decade Needed*:** 2010 – 2060

### *Cost, Quantity of Water, and Land Impacted*

| | | | |
|---|---|---|---|
| **Unit Cost of Water:** | **329-365** | **$/acft/yr** | **Treated Water Delivered** |
| **Quantity of Water:** | **400-15,000** | **acft/yr** | **Reliability = Firm** |
| **Land Impacted:** | **Varies (low)** | **acres** | |

### *Additional Considerations per Regional Water Planning Guidelines*

**Environmental Factors:** Minimal. Pipeline may traverse endangered or threatened species habitat. Groundwater pumpage could affect spring flows and stream flows in outcrop.

**Impacts on Water Resources:** Minimal, if any.

**Impacts on Agricultural & Natural Resources:** Not applicable.

**Other Relevant Factors per SCTRWPG:** Groundwater availability modeling was not performed to estimate long-term drawdown associated with these projects. The fault-block geology of the Trinity Aquifer in these areas results in highly variable well yields. Cost estimates are based on average well capacities reported by representatives of water users. Further hydrogeologic studies will be necessary to determine if the reported average well yields used for costing purposes are sustainable over the long term planning period. Additionally, Trinity wells from very deep strata may require treatment for reduction of TDS.

**Comparison of Strategies to Meet Needs:** Low Unit Cost, in comparison to recommended strategies to meet other municipal needs.

**Interbasin Transfer Issues:** Not applicable.

**Third-Party Impacts of Voluntary Transfers:** Not applicable.

**Regional Efficiency:** Through use of locally available sources, water needs are met at least cost, in comparison to costs of recommended strategies to meet needs of large urban communities of the region.

**Water Quality Considerations:** Possibly high TDS from very deep strata.