

### 5B.32 Stonewall County Water Supply Plan

Table 5B.32-1 lists each water user group in Stonewall County and their corresponding surplus or shortage in years 2030 and 2050. For each water user group with a projected shortage, a water supply plan has been developed and is presented in the following subsections. Water supply plans are also presented for some entities that need pumping/conveyance facilities to utilize their existing water resources, or to become a regional provider. In addition, long-term considerations are provided for some entities with projected surpluses. Stonewall County, through its County Commissioner's Court, has submitted a series of resolutions supporting a variety of regional water supply planning and development initiatives. The specific resolutions are included at the end of Volume 1. The recommended plans described below either include specific proposed projects mentioned in the resolutions, or are generally consistent with them.

**Table 5B.32-1.  
Stonewall County Surplus/(Shortage)**

| Water User Group  | Surplus/(Shortage) <sup>1</sup> |                   | Comment                            |
|-------------------|---------------------------------|-------------------|------------------------------------|
|                   | 2030<br>(acft/yr)               | 2050<br>(acft/yr) |                                    |
| City of Aspermont | 147                             | 168               | Projected surplus – see plan below |
| County-Other      | 235                             | 251               | Projected surplus – see plan below |
| Manufacturing     | 0                               | 0                 | No demand or supply                |
| Steam-Electric    | 0                               | 0                 | No demand or supply                |
| Mining            | 247                             | 283               | Projected surplus                  |
| Irrigation        | 546                             | 574               | Projected surplus                  |
| Livestock         | 0                               | 0                 | Supply equals demand               |

<sup>1</sup> From Tables 4-63 and 4-64, Section 4 – Comparison of Water Demands with Water Supplies to Determine Needs.

#### 5B.32.1 The City of Aspermont

##### 5B.32.1.1 Description of Supply

The City of Aspermont is supplied with surface water from local sources and groundwater primarily from the Seymour Aquifer. Groundwater supply is limited by well capacity, and surface water supply is limited due to expiring contract with North Central Texas MWA in 2019.

**5B.32.1.2 Options Considered**

Table 5B.32-2 lists the water management strategies, references to the report section detailing the strategy, total project cost, and unit costs that were considered for the City of Aspermont.

**Table 5B.32-2.  
Water Management Strategies Considered for the City of Aspermont**

| Option  | Yield<br>(acft/yr) | Approximate Cost <sup>1</sup> |                    |
|---|--------------------|-------------------------------|--------------------|
|   |                    | Total                         | Unit<br>(\$/acft)  |
| Extend existing contract with NCTMWA  | 93                 | \$60,450/yr                   | \$650 <sup>2</sup> |
| Chloride Control (Section 5A.8)   | 0                  | \$28,673,000                  | N/A                |
| <sup>1</sup> Unless otherwise noted, costs are Total Project Cost and Unit Cost (\$/acft per year) for treated water delivered to the water supply entity or entities. Unit cost is for full utilization of project capacity. Operation and maintenance of existing facilities is not included.<br><sup>2</sup> Estimated wholesale cost for treated water from NCTMWA. |                    |                               |                    |

**5B.32.1.3 Water Supply Plan**

Working within the planning criteria established by the Brazos G RWPG and TWDB, the following water supply plan is recommended to meet future shortages of the City of Aspermont:

- Extend existing contract with NCTMWA
- Chloride control – Brine Utilization Management Complex

**5B.32.1.4 Costs**

Costs of the recommended plan for the City of Aspermont to meet future shortages are:

- a. Extension of existing contract with NCTMWA:
  - Cost Source: Estimated wholesale cost for treated water
  - Date to be Implemented: 2019
  - Total Annual Cost: \$60,450
- b. Chloride control:
  - Cost Source: Section 5A.8
  - Date to be Implemented: by 2010
  - Total Annual Cost: \$2,427,000 (does not include revenue available from sale of salt)

**5B.32.2 County-Other**

The water supply entities for County-Other show a projected surplus and no changes in water supply are recommended.

**5B.32.3 Manufacturing**

No Manufacturing demand exists or is projected for the county.

**5B.32.4 Steam-Electric**

No Steam-Electric demand exists or is projected for the county.

**5B.32.5 Mining**

The water supply entities for Mining show a projected surplus and no changes in water supply are recommended.

**5B.32.6 Irrigation**

The water supply entities for Irrigation show a projected surplus and no changes in water supply are recommended.

**5B.32.7 Livestock**

No Livestock shortage is projected.