

Appendix Q
Requested Population, Municipal, and
Steam-Electric Water Demands

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| To: Brazos G Regional Water Planning Group | |
| From: Grady Reed David Dunn, PE Scott Diermann, PE, Brazos G RWPG | Project: Brazos G 2011 Regional Water Plan |
| CC: Trey Buzbee, Brazos River Authority | |
| Date: April 7, 2009, Revised June 6, 2009 | Job No: 00010478-001 |

RE: Final Population and Water Demand Projections for Use in the 2011 Brazos G Regional Water Plan

Introduction

This memo summarizes changes to the population and water demand projections contained in the 2006 Brazos G Regional Water Plan (2006 Plan) to be used in the 2011 Plan. There are no changes to the water demand projections for manufacturing, mining, irrigation, or livestock use. Due to the population projection revisions noted below, some changes were made to the municipal water demand projections for certain Water User Groups (WUGs). Finally, based in part on a recent study conducted by the Bureau of Economic Geology titled "Water Demand Projections for Power Generation in Texas," and with additional input from Scott Diermann and HDR, some steam-electric water demand projections have been revised as discussed below.

Population Projection Revisions

As noted in a previous memo dated February 12, 2009, concerning suggested revisions to specific population projections to be used in the 2011 Plan, population revisions were recommended for several WUGs in the Brazos G Area. In early March 2009, Brazos G formally requested that the Texas Water Development Board (TWDB) revise the population projections for certain WUGs, as detailed in Attachment A. The population revisions result in an increased population for four counties (Bell, Johnson, Milam and Williamson). As shown in Figure 1, the total regional population in 2060 increases by 116,779 to a new total of 3,448,879.

Municipal Water Demand Projection Revisions

For those WUGs with a revised population, the water demands must also be revised. The water demand projections were revised by taking the revised population times the per capita use value contained in the 2006 Plan. For the new WUGs (Cresson, deCordova, Jarrell, Kosse, Lipan, Morgan and Tolar) the TWDB determined the per capita use rate to be used for the water demands. A detailed summary of the revised water demand projections is contained in Attachment B. As shown in Figure 2, the total regional municipal demand in 2060 increases by 20,001 acft/yr to a new total of 615,483 acft/yr.

HDR recommends that the Brazos G RWPG request the TWDB to revise the municipal water demand projections for use in the 2011 Plan as shown in Attachment B.

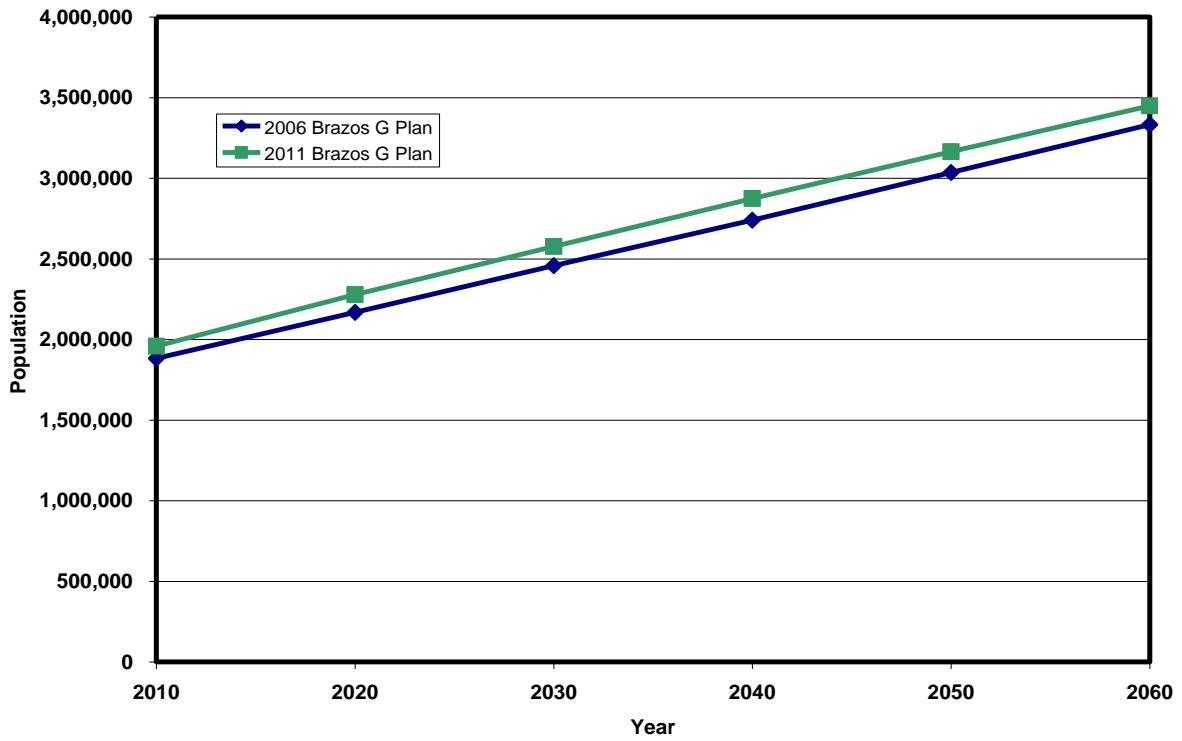


Figure 1.
Brazos G Total Population, 2006 Plan and 2011 Plan

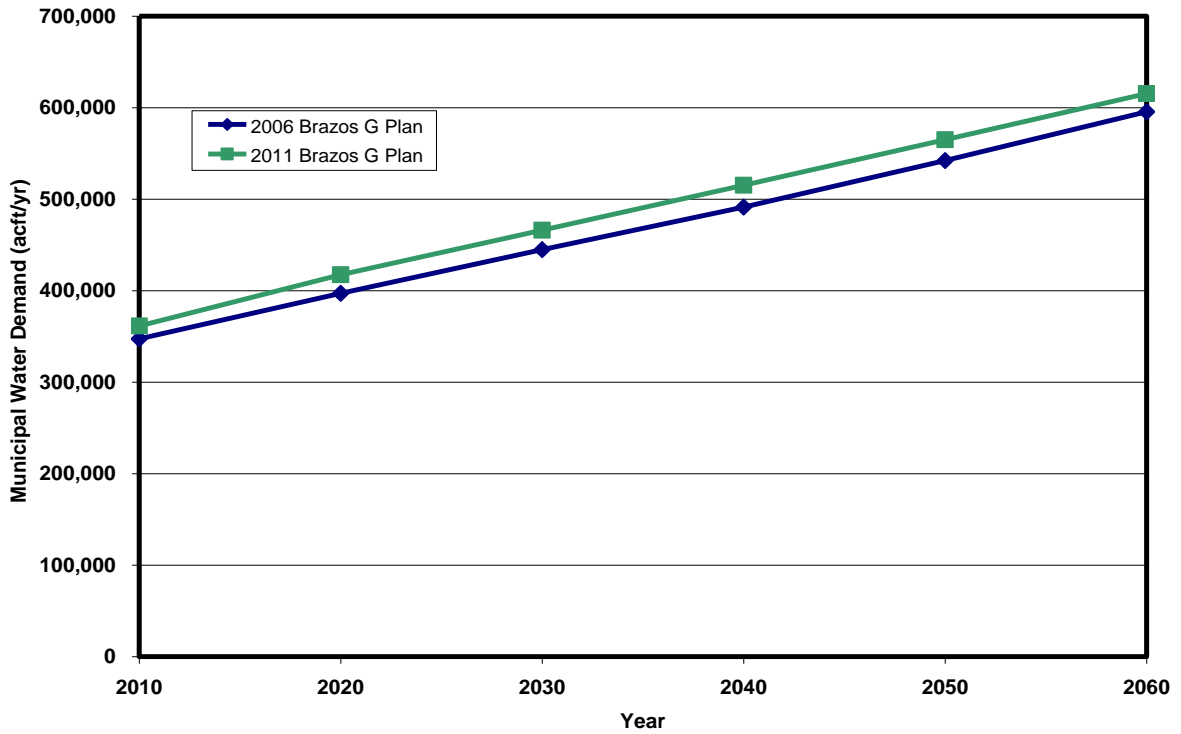


Figure 2.
Brazos G Total Municipal Water Demand, 2006 Plan and 2011 Plan

Steam-Electric Water Demand Projections

Based in part on a recent study conducted by the Bureau of Economic Geology (BEG) entitled "Water Demand Projections for Power Generation in Texas," and with additional input from Scott Diermann (Brazos G RWPG Electric Utilities Representative) and HDR, initially recommended steam-electric water demand projections were presented to the Brazos G RWPG in the first version of this memorandum, dated April 7, 2009, and at the April 15, 2009 meeting of the Brazos G RWPG.

For all but six counties, the initially recommended water demands are either from the 2006 Plan or from the BEG study, depending on which set of projections seemed to best reflect the steam-electric power generating activities in those counties. The steam-electric projections for the six remaining counties (Grimes, Hood, Johnson, Milam, Nolan and Palo Pinto) were developed with information obtained by Scott Diermann and HDR concerning existing and planned facilities, as summarized in Table 1.

At the April meeting, the Brazos G RWPG directed HDR and the Brazos River Authority (BRA) to solicit input from county judges and steam-electric generators in the 11 counties for which the recommended demands differ from those adopted for the 2006 Plan. The BRA sent out letters requesting comment on the initially recommended demands, and received comments back from four entities: Tenaska; Optim Energy, LP; Wolf Hollow and AEP. Those comments are included as Attachment D. Upon review of those comments, the recommended steam-electric demands have been revised for three counties: Jones, Haskel and Hood.

The recommended steam-electric demands, as revised, are shown in Attachment C and summarized in Figure 3. The total regional steam-electric demand in 2060 increases by 13,658 acft/yr over the 2006 Plan demands to a new total of 317,619 acft/yr.

HDR recommends that the Brazos G RWPG request the TWDB to revise the steam-electric water demand projections for use in the 2011 Plan as shown in Attachment C.

Table 1. Alternative Steam-Electric Demand Projections for Six Brazos G Counties

| Facility | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 | Comments |
|--------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---|
| Grimes County | | | | | | | |
| Gibbons Creek Unit 1 | 6,000 | 6,000 | 6,000 | 6,000 | 6,000 | 6,000 | Existing use, based on TMPA conversation. |
| Tenaska Frontier Station | 6,000 | 8,100 | 9,500 | 11,000 | 13,000 | 16,000 | Based on planned expansions of existing facility. |
| Gibbons Creek Unit 2 | 0 | 8,000 | 8,000 | 8,000 | 8,000 | 8,000 | 800 MW Unit planned prior to 2020. |
| Unnamed 1200 MW Unit | 0 | 9,660 | 9,660 | 9,660 | 9,660 | 9,660 | New gas unit planned for May 2011. |
| Total Grimes County | 12,000 | 31,760 | 33,160 | 34,660 | 36,660 | 39,660 | |
| Hood County | | | | | | | |
| DeCordova Station | 0 | 0 | 0 | 0 | 0 | 0 | Planned decommissioning. |
| Wolf Hollow I | 4,000 | 5,862 | 6,853 | 8,062 | 9,535 | 11,331 | Includes existing Wolf demands plus expansion. |
| Total Hood County | 4,000 | 5,862 | 6,853 | 8,062 | 9,535 | 11,331 | |
| Johnson County | | | | | | | |
| BEPC Cleburne | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 | Existing demands, reflecting both fresh and reuse supplies. |
| BEPC Cleburne Expansion | 0 | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 | Expansion of Cleburne facility. |
| Total Johnson County | 3,500 | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 | |
| Milam County | | | | | | | |
| Total Milam County | 12,500 | 12,500 | 12,500 | 12,500 | 16,000 | 16,000 | 2006 Brazos G projections, except for increase in 2010. |
| Nolan County | | | | | | | |
| Total Nolan County | 807 | 11,311 | 20,000 | 20,000 | 20,000 | 20,000 | BEG 2008 projections, limited to 20,000 actf/yr. |
| Palo Pinto County | | | | | | | |
| RW Miller Station | 840 | 840 | 840 | 840 | 840 | 840 | Existing demands at RW Miller station. |
| RW Miller Station Expansion | 0 | 3,160 | 3,160 | 3,160 | 3,160 | 3,160 | Expansion planned for 2018. |
| Total Palo Pinto County | 840 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 | |

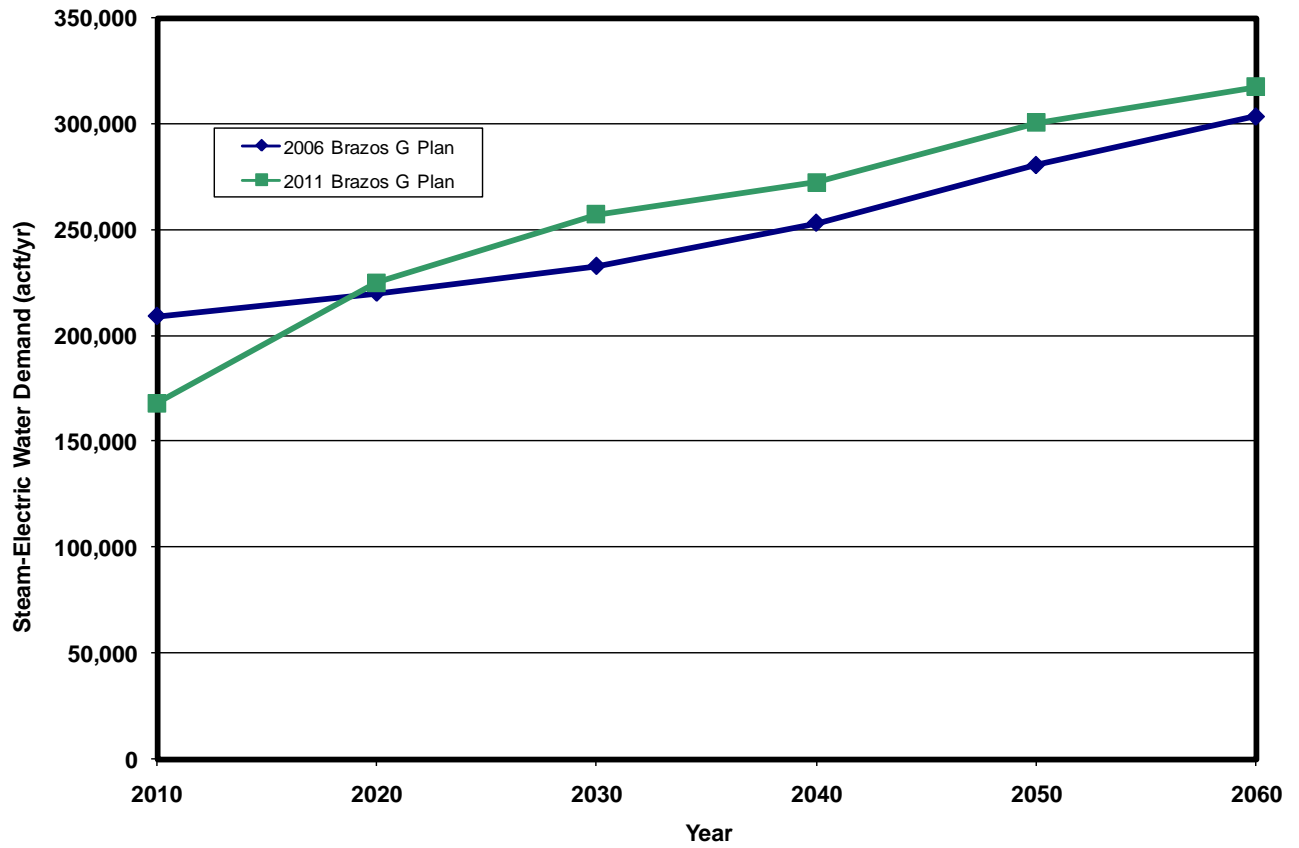


Figure 3.
Brazos G Total Steam-Electric Water Demand, 2006 Plan and 2011 Plan

Attachment A
Summary of Population Changes

Summary of Population Changes

| County/City | | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 |
|-------------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>Bell County</u> | | | | | | | |
| Harker Heights | (2011 Plan) | 23,869 | 30,952 | 36,978 | 42,090 | 43,640 | 44,407 |
| Harker Heights | (2006 Plan) | 22,477 | 29,147 | 34,822 | 39,636 | 41,096 | 41,818 |
| <i>Increase/(Decrease)</i> | | 1,392 | 1,805 | 2,156 | 2,454 | 2,544 | 2,589 |
| Killeen | (2011 Plan) | 113,217 | 126,985 | 141,148 | 154,641 | 169,132 | 184,064 |
| Killeen | (2006 Plan) | 104,528 | 117,239 | 130,315 | 142,772 | 156,151 | 169,937 |
| <i>Increase/(Decrease)</i> | | 8,689 | 9,746 | 10,833 | 11,869 | 12,981 | 14,127 |
| Morgans Point Resort | (2011 Plan) | 4,219 | 4,781 | 5,290 | 5,617 | 5,828 | 5,981 |
| Morgans Point Resort | (2006 Plan) | 3,698 | 4,191 | 4,637 | 4,924 | 5,109 | 5,243 |
| <i>Increase/(Decrease)</i> | | 521 | 590 | 653 | 693 | 719 | 738 |
| Nolanville | (2011 Plan) | 2,611 | 2,753 | 2,882 | 2,965 | 3,019 | 3,058 |
| Nolanville | (2006 Plan) | 2,333 | 2,460 | 2,575 | 2,649 | 2,697 | 2,732 |
| <i>Increase/(Decrease)</i> | | 278 | 293 | 307 | 316 | 322 | 326 |
| County-Other | (2011 Plan) | 1,289 | 1,223 | 1,157 | 1,116 | 1,089 | 1,071 |
| County-Other | (2006 Plan) | 1,810 | 1,813 | 1,810 | 1,809 | 1,808 | 1,809 |
| <i>Increase/(Decrease)</i> | | (521) | (590) | (653) | (693) | (719) | (738) |
| Bell County Total | (2011 Plan) | 289,672 | 327,610 | 364,632 | 396,478 | 424,255 | 449,460 |
| Bell County Total | (2006 Plan) | 279,313 | 315,766 | 351,336 | 381,839 | 408,408 | 432,418 |
| <i>Increase/(Decrease)</i> | | 10,359 | 11,844 | 13,296 | 14,639 | 15,847 | 17,042 |
| <u>Bosque County</u> | | | | | | | |
| Morgan | (2011 Plan) | 569 | 668 | 784 | 920 | 1,080 | 1,268 |
| Morgan | (2006 Plan) ** Not a WUG in the 2006 Plan | | | | | | |
| <i>Increase/(Decrease)</i> | | 569 | 668 | 784 | 920 | 1,080 | 1,268 |
| Valley Mills | (2011 Plan) | 1,279 | 1,449 | 1,568 | 1,613 | 1,631 | 1,653 |
| Valley Mills | (2006 Plan) | 1,164 | 1,211 | 1,244 | 1,256 | 1,261 | 1,267 |
| <i>Increase/(Decrease)</i> | | 115 | 238 | 324 | 357 | 370 | 386 |
| County-Other | (2011 Plan) | 5,521 | 6,877 | 7,782 | 8,029 | 8,025 | 8,025 |
| County-Other | (2006 Plan) | 6,205 | 7,783 | 8,890 | 9,306 | 9,475 | 9,679 |
| <i>Increase/(Decrease)</i> | | (684) | (906) | (1,108) | (1,277) | (1,450) | (1,654) |
| Bosque County Total | (2011 Plan) | 19,831 | 22,646 | 24,622 | 25,364 | 25,667 | 26,032 |
| Bosque County Total | (2006 Plan) | 19,831 | 22,646 | 24,622 | 25,364 | 25,667 | 26,032 |
| <i>Increase/(Decrease)</i> | | 0 | 0 | 0 | 0 | 0 | 0 |
| <u>Callahan County</u> | | | | | | | |
| Clyde | (2011 Plan) | 3,733 | 3,787 | 3,706 | 3,615 | 3,514 | 3,430 |
| Clyde | (2006 Plan) | 3,320 | 3,368 | 3,296 | 3,215 | 3,125 | 3,050 |
| <i>Increase/(Decrease)</i> | | 413 | 419 | 410 | 400 | 389 | 380 |
| County-Other | (2011 Plan) | 5,958 | 6,024 | 5,922 | 5,808 | 5,681 | 5,575 |
| County-Other | (2006 Plan) | 6,371 | 6,443 | 6,332 | 6,208 | 6,070 | 5,955 |
| <i>Increase/(Decrease)</i> | | (413) | (419) | (410) | (400) | (389) | (380) |
| Callahan County Total | (2011 Plan) | 12,829 | 12,980 | 12,750 | 12,492 | 12,206 | 11,968 |
| Callahan County Total | (2006 Plan) | 12,829 | 12,980 | 12,750 | 12,492 | 12,206 | 11,968 |
| <i>Increase/(Decrease)</i> | | 0 | 0 | 0 | 0 | 0 | 0 |

| County/City | | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 |
|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>Eastland County</u> | | | | | | | |
| Eastland | (2011 Plan) | 4,017 | 4,028 | 3,957 | 3,849 | 3,723 | 3,555 |
| Eastland | (2006 Plan) | 3,777 | 3,787 | 3,720 | 3,618 | 3,500 | 3,342 |
| <i>Increase/(Decrease)</i> | | 240 | 241 | 237 | 231 | 223 | 213 |
| County-Other | (2011 Plan) | 5,781 | 5,795 | 5,695 | 5,538 | 5,356 | 5,116 |
| County-Other | (2006 Plan) | 6,021 | 6,036 | 5,932 | 5,769 | 5,579 | 5,329 |
| <i>Increase/(Decrease)</i> | | (240) | (241) | (237) | (231) | (223) | (213) |
| Eastland County Total | (2011 Plan) | 18,336 | 18,382 | 18,061 | 17,566 | 16,989 | 16,226 |
| Eastland County Total | (2006 Plan) | 18,336 | 18,382 | 18,061 | 17,566 | 16,989 | 16,226 |
| <i>Increase/(Decrease)</i> | | 0 | 0 | 0 | 0 | 0 | 0 |
| <u>Hamilton County</u> | | | | | | | |
| Hico | (2011 Plan) | 1,417 | 1,417 | 1,417 | 1,417 | 1,417 | 1,417 |
| Hico | (2006 Plan) | 1,341 | 1,341 | 1,341 | 1,341 | 1,341 | 1,341 |
| <i>Increase/(Decrease)</i> | | 76 | 76 | 76 | 76 | 76 | 76 |
| County-Other | (2011 Plan) | 3,431 | 3,331 | 3,253 | 3,279 | 3,176 | 3,169 |
| County-Other | (2006 Plan) | 3,507 | 3,407 | 3,329 | 3,355 | 3,252 | 3,245 |
| <i>Increase/(Decrease)</i> | | (76) | (76) | (76) | (76) | (76) | (76) |
| Hamilton County Total | (2011 Plan) | 7,790 | 7,681 | 7,596 | 7,624 | 7,512 | 7,504 |
| Hamilton County Total | (2006 Plan) | 7,790 | 7,681 | 7,596 | 7,624 | 7,512 | 7,504 |
| <i>Increase/(Decrease)</i> | | 0 | 0 | 0 | 0 | 0 | 0 |
| <u>Hill County</u> | | | | | | | |
| Hillsboro | (2011 Plan) | 8,923 | 9,284 | 9,692 | 10,099 | 10,534 | 11,017 |
| Hillsboro | (2006 Plan) | 8,477 | 8,820 | 9,208 | 9,595 | 10,008 | 10,467 |
| <i>Increase/(Decrease)</i> | | 446 | 464 | 484 | 504 | 526 | 550 |
| Hubbard | (2011 Plan) | 1,713 | 1,713 | 1,713 | 1,713 | 1,713 | 1,713 |
| Hubbard | (2006 Plan) | 1,586 | 1,586 | 1,586 | 1,586 | 1,586 | 1,586 |
| <i>Increase/(Decrease)</i> | | 127 | 127 | 127 | 127 | 127 | 127 |
| Itasca | (2011 Plan) | 1,633 | 1,626 | 1,619 | 1,612 | 1,604 | 1,595 |
| Itasca | (2006 Plan) | 1,499 | 1,493 | 1,487 | 1,481 | 1,474 | 1,466 |
| <i>Increase/(Decrease)</i> | | 134 | 133 | 132 | 131 | 130 | 129 |
| Whitney | (2011 Plan) | 2,157 | 2,227 | 2,306 | 2,385 | 2,470 | 2,564 |
| Whitney | (2006 Plan) | 2,046 | 2,112 | 2,187 | 2,262 | 2,343 | 2,432 |
| <i>Increase/(Decrease)</i> | | 111 | 115 | 119 | 123 | 127 | 132 |
| County-Other | (2011 Plan) | 2,074 | 2,305 | 2,566 | 2,827 | 3,104 | 3,411 |
| County-Other | (2006 Plan) | 2,892 | 3,144 | 3,428 | 3,712 | 4,014 | 4,349 |
| <i>Increase/(Decrease)</i> | | (818) | (839) | (862) | (885) | (910) | (938) |
| Hill County Total | (2011 Plan) | 33,416 | 34,947 | 36,679 | 38,407 | 40,252 | 42,300 |
| Hill County Total | (2006 Plan) | 33,416 | 34,947 | 36,679 | 38,407 | 40,252 | 42,300 |
| <i>Increase/(Decrease)</i> | | 0 | 0 | 0 | 0 | 0 | 0 |

| County/City | | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 |
|------------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>Hood County</u> | | | | | | | |
| Cresson | (2011 Plan) | 295 | 360 | 439 | 536 | 654 | 799 |
| Cresson | (2006 Plan) ** Not a WUG in the 2006 Plan | | | | | | |
| <i>Increase/(Decrease)</i> | | 295 | 360 | 439 | 536 | 654 | 799 |
| deCordova | (2011 Plan) | 3,074 | 3,125 | 3,177 | 3,230 | 3,283 | 3,337 |
| deCordova | (2006 Plan) ** Not a WUG in the 2006 Plan | | | | | | |
| <i>Increase/(Decrease)</i> | | 3,074 | 3,125 | 3,177 | 3,230 | 3,283 | 3,337 |
| Granbury | (2011 Plan) | 8,073 | 10,083 | 11,954 | 13,914 | 16,383 | 19,234 |
| Granbury | (2006 Plan) | 6,843 | 8,202 | 9,467 | 10,792 | 12,461 | 14,388 |
| <i>Increase/(Decrease)</i> | | 1,230 | 1,881 | 2,487 | 3,122 | 3,922 | 4,846 |
| Lipan | (2011 Plan) | 599 | 844 | 1,189 | 1,675 | 2,359 | 3,323 |
| Lipan | (2006 Plan) ** Not a WUG in the 2006 Plan | | | | | | |
| <i>Increase/(Decrease)</i> | | 599 | 844 | 1,189 | 1,675 | 2,359 | 3,323 |
| Tolar | (2011 Plan) | 749 | 958 | 1,153 | 1,357 | 1,614 | 1,911 |
| Tolar | (2006 Plan) ** Not a WUG in the 2006 Plan | | | | | | |
| <i>Increase/(Decrease)</i> | | 749 | 958 | 1,153 | 1,357 | 1,614 | 1,911 |
| County-Other | (2011 Plan) | 17,869 | 21,047 | 23,865 | 26,677 | 30,166 | 34,020 |
| County-Other | (2006 Plan) | 23,312 | 27,711 | 31,806 | 36,093 | 41,494 | 47,732 |
| <i>Increase/(Decrease)</i> | | (5,443) | (6,664) | (7,941) | (9,416) | (11,328) | (13,712) |
| Hood County Total | (2011 Plan) | 49,207 | 58,364 | 66,888 | 75,814 | 87,059 | 100,045 |
| Hood County Total | (2006 Plan) | 49,207 | 58,364 | 66,888 | 75,814 | 87,059 | 100,045 |
| <i>Increase/(Decrease)</i> | | 0 | 0 | 0 | 0 | 0 | 0 |
| <u>Johnson County</u> | | | | | | | |
| Alvarado | (2011 Plan) | 4,204 | 4,627 | 5,071 | 5,556 | 6,158 | 6,897 |
| Alvarado | (2006 Plan) | 3,595 | 3,957 | 4,337 | 4,752 | 5,267 | 5,899 |
| <i>Increase/(Decrease)</i> | | 609 | 670 | 734 | 804 | 891 | 998 |
| Burleson | (2011 Plan) | 27,206 | 42,037 | 52,747 | 52,747 | 52,747 | 52,747 |
| Burleson | (2006 Plan) | 20,303 | 23,588 | 27,039 | 30,809 | 35,486 | 41,224 |
| <i>Increase/(Decrease)</i> | | 6,903 | 18,449 | 25,708 | 21,938 | 17,261 | 11,523 |
| Cleburne | (2011 Plan) | 30,572 | 34,467 | 38,558 | 43,027 | 48,353 | 52,812 |
| Cleburne | (2006 Plan) | 29,158 | 32,872 | 36,774 | 41,036 | 46,324 | 52,812 |
| <i>Increase/(Decrease)</i> | | 1,414 | 1,595 | 1,784 | 1,991 | 2,029 | 0 |
| Cresson | (2011 Plan) | 78 | 95 | 116 | 141 | 172 | 210 |
| Cresson | (2006 Plan) ** Not a WUG in the 2006 Plan | | | | | | |
| <i>Increase/(Decrease)</i> | | 78 | 95 | 116 | 141 | 172 | 210 |
| Grandview | (2011 Plan) | 1,600 | 2,000 | 2,500 | 2,500 | 2,500 | 2,500 |
| Grandview | (2006 Plan) | 1,452 | 1,562 | 1,678 | 1,805 | 1,962 | 2,155 |
| <i>Increase/(Decrease)</i> | | 148 | 438 | 822 | 695 | 538 | 345 |
| Joshua | (2011 Plan) | 5,503 | 6,247 | 7,028 | 7,881 | 8,940 | 10,239 |
| Joshua | (2006 Plan) | 5,114 | 5,805 | 6,531 | 7,324 | 8,308 | 9,515 |
| <i>Increase/(Decrease)</i> | | 389 | 442 | 497 | 557 | 632 | 724 |
| Venus | (2011 Plan) | 2,435 | 2,435 | 2,435 | 2,435 | 2,435 | 2,435 |
| Venus | (2006 Plan) | 1,892 | 1,892 | 1,892 | 1,892 | 1,892 | 1,892 |
| <i>Increase/(Decrease)</i> | | 543 | 543 | 543 | 543 | 543 | 543 |

| County/City | | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 |
|--------------------------------|---|----------------|----------------|----------------|----------------|----------------|----------------|
| County-Other | (2011 Plan) | 9,014 | 9,236 | 9,468 | 9,717 | 10,026 | 10,402 |
| County-Other | (2006 Plan) | 11,115 | 11,596 | 12,102 | 12,653 | 13,338 | 14,177 |
| <i>Increase/(Decrease)</i> | | <i>(2,101)</i> | <i>(2,360)</i> | <i>(2,634)</i> | <i>(2,936)</i> | <i>(3,312)</i> | <i>(3,775)</i> |
| Johnson County Total | (2011 Plan) | 159,451 | 200,381 | 238,590 | 268,082 | 304,454 | 346,999 |
| Johnson County Total | (2006 Plan) | 151,468 | 180,509 | 211,020 | 244,349 | 285,700 | 336,431 |
| <i>Increase/(Decrease)</i> | | <i>7,983</i> | <i>19,872</i> | <i>27,570</i> | <i>23,733</i> | <i>18,754</i> | <i>10,568</i> |
| <u>Lampasas County</u> | | | | | | | |
| Lampasas | (2011 Plan) | 8,222 | 9,225 | 9,952 | 10,491 | 10,845 | 10,325 |
| Lampasas | (2006 Plan) | 7,010 | 7,246 | 7,417 | 7,544 | 7,627 | 7,680 |
| <i>Increase/(Decrease)</i> | | <i>1,212</i> | <i>1,979</i> | <i>2,535</i> | <i>2,947</i> | <i>3,218</i> | <i>2,645</i> |
| County-Other | (2011 Plan) | 5,688 | 5,900 | 6,054 | 6,169 | 6,244 | 7,036 |
| County-Other | (2006 Plan) | 6,900 | 7,879 | 8,589 | 9,116 | 9,462 | 9,681 |
| <i>Increase/(Decrease)</i> | | <i>(1,212)</i> | <i>(1,979)</i> | <i>(2,535)</i> | <i>(2,947)</i> | <i>(3,218)</i> | <i>(2,645)</i> |
| Lampasas County Total | (2011 Plan) | 20,114 | 22,596 | 24,396 | 25,731 | 26,606 | 27,160 |
| Lampasas County Total | (2006 Plan) | 20,114 | 22,596 | 24,396 | 25,731 | 26,606 | 27,160 |
| <i>Increase/(Decrease)</i> | | <i>0</i> | <i>0</i> | <i>0</i> | <i>0</i> | <i>0</i> | <i>0</i> |
| <u>Limestone County</u> | | | | | | | |
| Kosse | (2011 Plan) | 500 | 503 | 506 | 509 | 512 | 515 |
| Kosse | (2006 Plan) ** Not a WUG in the 2006 Plan | | | | | | |
| <i>Increase/(Decrease)</i> | | <i>500</i> | <i>503</i> | <i>506</i> | <i>509</i> | <i>512</i> | <i>515</i> |
| County-Other | (2011 Plan) | 7,384 | 7,034 | 6,667 | 6,284 | 5,881 | 5,457 |
| County-Other | (2006 Plan) | 7,884 | 7,537 | 7,173 | 6,793 | 6,393 | 5,972 |
| <i>Increase/(Decrease)</i> | | <i>(500)</i> | <i>(503)</i> | <i>(506)</i> | <i>(509)</i> | <i>(512)</i> | <i>(515)</i> |
| Limestone County Total | (2011 Plan) | 23,322 | 24,944 | 25,828 | 26,505 | 27,177 | 28,050 |
| Limestone County Total | (2006 Plan) | 23,322 | 24,944 | 25,828 | 26,505 | 27,177 | 28,050 |
| <i>Increase/(Decrease)</i> | | <i>0</i> | <i>0</i> | <i>0</i> | <i>0</i> | <i>0</i> | <i>0</i> |
| <u>McLennan County</u> | | | | | | | |
| Robinson | (2011 Plan) | 9,592 | 11,353 | 12,837 | 14,375 | 15,352 | 16,772 |
| Robinson | (2006 Plan) | 8,397 | 8,954 | 9,423 | 9,910 | 10,219 | 10,668 |
| <i>Increase/(Decrease)</i> | | <i>1,195</i> | <i>2,399</i> | <i>3,414</i> | <i>4,465</i> | <i>5,133</i> | <i>6,104</i> |
| County-Other | (2011 Plan) | 26,101 | 26,538 | 26,908 | 27,293 | 27,534 | 27,886 |
| County-Other | (2006 Plan) | 27,296 | 28,937 | 30,322 | 31,758 | 32,667 | 33,990 |
| <i>Increase/(Decrease)</i> | | <i>(1,195)</i> | <i>(2,399)</i> | <i>(3,414)</i> | <i>(4,465)</i> | <i>(5,133)</i> | <i>(6,104)</i> |
| McLennan County Total | (2011 Plan) | 231,882 | 250,398 | 266,002 | 282,177 | 292,449 | 307,378 |
| McLennan County Total | (2006 Plan) | 231,882 | 250,398 | 266,002 | 282,177 | 292,449 | 307,378 |
| <i>Increase/(Decrease)</i> | | <i>0</i> | <i>0</i> | <i>0</i> | <i>0</i> | <i>0</i> | <i>0</i> |
| <u>Milam County</u> | | | | | | | |
| Cameron | (2011 Plan) | 6,231 | 6,900 | 7,331 | 7,596 | 7,663 | 7,693 |
| Cameron | (2006 Plan) | 5,634 | 5,634 | 5,634 | 5,634 | 5,634 | 5,634 |
| <i>Increase/(Decrease)</i> | | <i>597</i> | <i>1,266</i> | <i>1,697</i> | <i>1,962</i> | <i>2,029</i> | <i>2,059</i> |
| Milam County Total | (2011 Plan) | 26,053 | 28,086 | 29,396 | 30,201 | 30,405 | 30,496 |
| Milam County Total | (2006 Plan) | 25,456 | 26,820 | 27,699 | 28,239 | 28,376 | 28,437 |
| <i>Increase/(Decrease)</i> | | <i>597</i> | <i>1,266</i> | <i>1,697</i> | <i>1,962</i> | <i>2,029</i> | <i>2,059</i> |

| County/City | | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 |
|---------------------------------|---|---------|---------|----------|----------|----------|----------|
| <u>Somervell County</u> | | | | | | | |
| Glen Rose | (2011 Plan) | 2,672 | 3,009 | 3,287 | 3,469 | 3,543 | 3,568 |
| Glen Rose | (2006 Plan) | 2,210 | 2,312 | 2,396 | 2,451 | 2,473 | 2,481 |
| <i>Increase/(Decrease)</i> | | 462 | 697 | 891 | 1,018 | 1,070 | 1,087 |
| County-Other | (2011 Plan) | 4,870 | 5,384 | 5,807 | 6,085 | 6,197 | 6,236 |
| County-Other | (2006 Plan) | 5,332 | 6,081 | 6,698 | 7,103 | 7,267 | 7,323 |
| <i>Increase/(Decrease)</i> | | (462) | (697) | (891) | (1,018) | (1,070) | (1,087) |
| Somervell County Total | (2011 Plan) | 7,542 | 8,393 | 9,094 | 9,554 | 9,740 | 9,804 |
| Somervell County Total | (2006 Plan) | 7,542 | 8,393 | 9,094 | 9,554 | 9,740 | 9,804 |
| <i>Increase/(Decrease)</i> | | 0 | 0 | 0 | 0 | 0 | 0 |
| <u>Williamson County</u> | | | | | | | |
| Cedar Park | (2011 Plan) | 58,665 | 81,731 | 88,823 | 108,018 | 108,018 | 108,018 |
| Cedar Park | (2006 Plan) | 52,700 | 73,421 | 102,705 | 128,373 | 154,089 | 187,931 |
| <i>Increase/(Decrease)</i> | | 5,965 | 8,310 | (13,882) | (20,355) | (46,071) | (79,913) |
| Florence | (2011 Plan) | 1,364 | 1,632 | 1,951 | 2,298 | 2,675 | 3,079 |
| Florence | (2006 Plan) | 1,263 | 1,511 | 1,806 | 2,127 | 2,476 | 2,850 |
| <i>Increase/(Decrease)</i> | | 101 | 121 | 145 | 171 | 199 | 229 |
| Georgetown | (2011 Plan) | 49,112 | 66,987 | 88,239 | 111,348 | 136,489 | 163,453 |
| Georgetown | (2006 Plan) | 40,888 | 55,770 | 73,463 | 92,702 | 113,633 | 136,082 |
| <i>Increase/(Decrease)</i> | | 8,224 | 11,217 | 14,776 | 18,646 | 22,856 | 27,371 |
| Granger | (2011 Plan) | 1,561 | 1,695 | 1,854 | 2,027 | 2,215 | 2,417 |
| Granger | (2006 Plan) | 1,400 | 1,520 | 1,663 | 1,818 | 1,987 | 2,168 |
| <i>Increase/(Decrease)</i> | | 161 | 175 | 191 | 209 | 228 | 249 |
| Hutto | (2011 Plan) | 12,479 | 17,153 | 22,709 | 28,750 | 35,317 | 42,363 |
| Hutto | (2006 Plan) | 1,826 | 2,510 | 3,323 | 4,207 | 5,168 | 6,199 |
| <i>Increase/(Decrease)</i> | | 10,653 | 14,643 | 19,386 | 24,543 | 30,149 | 36,164 |
| Jarrell | (2011 Plan) | 1,433 | 1,474 | 1,517 | 1,561 | 1,606 | 1,652 |
| Jarrell | (2006 Plan) ** Not a WUG in the 2006 Plan | | | | | | |
| <i>Increase/(Decrease)</i> | | 1,433 | 1,474 | 1,517 | 1,561 | 1,606 | 1,652 |
| Jarrell-Schwertner WSC | (2011 Plan) | 2,362 | 3,596 | 5,068 | 6,672 | 8,420 | 10,297 |
| Jarrell-Schwertner WSC | (2006 Plan) | 3,795 | 5,070 | 6,585 | 8,233 | 10,026 | 11,949 |
| <i>Increase/(Decrease)</i> | | (1,433) | (1,474) | (1,517) | (1,561) | (1,606) | (1,652) |
| Leander | (2011 Plan) | 22,675 | 31,803 | 42,654 | 54,454 | 67,291 | 81,059 |
| Leander | (2006 Plan) | 11,499 | 16,128 | 21,631 | 27,615 | 34,125 | 41,107 |
| <i>Increase/(Decrease)</i> | | 11,176 | 15,675 | 21,023 | 26,839 | 33,166 | 39,952 |
| Round Rock | (2011 Plan) | 104,696 | 143,328 | 189,257 | 239,199 | 293,531 | 351,804 |
| Round Rock | (2006 Plan) | 87,187 | 119,358 | 157,606 | 199,196 | 244,442 | 292,970 |
| <i>Increase/(Decrease)</i> | | 17,509 | 23,970 | 31,651 | 40,003 | 49,089 | 58,834 |
| Taylor | (2011 Plan) | 17,935 | 20,613 | 23,797 | 27,259 | 31,025 | 35,065 |
| Taylor | (2006 Plan) | 15,530 | 17,849 | 20,606 | 23,604 | 26,865 | 30,363 |
| <i>Increase/(Decrease)</i> | | 2,405 | 2,764 | 3,191 | 3,655 | 4,160 | 4,702 |
| Thrall | (2011 Plan) | 976 | 1,176 | 1,415 | 1,674 | 1,956 | 2,258 |
| Thrall | (2006 Plan) | 859 | 1,035 | 1,245 | 1,473 | 1,721 | 1,987 |
| <i>Increase/(Decrease)</i> | | 117 | 141 | 170 | 201 | 235 | 271 |

| County/City | | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 |
|----------------------------|-------------|---------------|----------------|----------------|----------------|----------------|----------------|
| County-Other | (2011 Plan) | 2,379 | 1,750 | 2,551 | 11,961 | 24,831 | 32,693 |
| County-Other | (2006 Plan) | 2,758 | 2,187 | 3,057 | 12,542 | 25,493 | 33,442 |
| <i>Increase/(Decrease)</i> | | <i>(379)</i> | <i>(437)</i> | <i>(506)</i> | <i>(581)</i> | <i>(662)</i> | <i>(749)</i> |
| Williamson County Total | (2011 Plan) | 360,086 | 492,701 | 626,291 | 789,743 | 949,309 | 1,114,510 |
| Williamson County Total | (2006 Plan) | 304,154 | 416,122 | 550,146 | 696,412 | 855,960 | 1,027,400 |
| <i>Increase/(Decrease)</i> | | <i>55,932</i> | <i>76,579</i> | <i>76,145</i> | <i>93,331</i> | <i>93,349</i> | <i>87,110</i> |
| Brazos G Total | (2011 Plan) | 1,957,767 | 2,278,243 | 2,576,783 | 2,873,382 | 3,164,777 | 3,448,879 |
| Brazos G Total | (2006 Plan) | 1,882,896 | 2,168,682 | 2,458,075 | 2,739,717 | 3,034,798 | 3,332,100 |
| <i>Increase/(Decrease)</i> | | <i>74,871</i> | <i>109,561</i> | <i>118,708</i> | <i>133,665</i> | <i>129,979</i> | <i>116,779</i> |

Attachment B
Summary of Municipal Water Demand Changes

Summary of Municipal Water Demand Changes (acft/yr)

| County/City | | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 |
|-------------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>Bell County</u> | | | | | | | |
| Harker Heights | (2011 Plan) | 3,904 | 4,959 | 5,800 | 6,507 | 6,698 | 6,815 |
| Harker Heights | (2006 Plan) | 3,676 | 4,669 | 5,461 | 6,127 | 6,307 | 6,417 |
| <i>Increase/(Decrease)</i> | | 228 | 290 | 339 | 380 | 391 | 398 |
| Killeen | (2011 Plan) | 19,530 | 25,462 | 27,985 | 30,141 | 32,207 | 34,432 |
| Killeen | (2006 Plan) | 18,031 | 23,507 | 25,837 | 27,827 | 29,735 | 31,789 |
| <i>Increase/(Decrease)</i> | | 1,499 | 1,955 | 2,148 | 2,314 | 2,472 | 2,643 |
| Morgans Point Resort | (2011 Plan) | 473 | 520 | 563 | 591 | 607 | 623 |
| Morgans Point Resort | (2006 Plan) | 414 | 455 | 493 | 518 | 532 | 546 |
| <i>Increase/(Decrease)</i> | | 59 | 65 | 70 | 73 | 75 | 77 |
| Nolanville | (2011 Plan) | 349 | 359 | 365 | 365 | 369 | 374 |
| Nolanville | (2006 Plan) | 311 | 320 | 326 | 326 | 329 | 334 |
| <i>Increase/(Decrease)</i> | | 38 | 39 | 39 | 39 | 40 | 40 |
| County-Other | (2011 Plan) | 200 | 187 | 174 | 167 | 161 | 159 |
| County-Other | (2006 Plan) | 280 | 276 | 272 | 270 | 267 | 267 |
| <i>Increase/(Decrease)</i> | | (80) | (89) | (98) | (103) | (106) | (108) |
| Bell County Total | (2011 Plan) | 60,039 | 70,010 | 76,412 | 81,485 | 85,999 | 90,422 |
| Bell County Total | (2006 Plan) | 58,295 | 67,750 | 73,914 | 78,782 | 83,127 | 87,372 |
| <i>Increase/(Decrease)</i> | | 1,744 | 2,260 | 2,498 | 2,703 | 2,872 | 3,050 |
| <u>Bosque County</u> | | | | | | | |
| Morgan | (2011 Plan) | 74 | 86 | 99 | 115 | 133 | 156 |
| Morgan | (2006 Plan) ** Not a WUG in the 2006 Plan | | | | | | |
| <i>Increase/(Decrease)</i> | | 74 | 86 | 99 | 115 | 133 | 156 |
| Valley Mills | (2011 Plan) | 265 | 295 | 313 | 316 | 319 | 323 |
| Valley Mills | (2006 Plan) | 241 | 246 | 248 | 246 | 246 | 247 |
| <i>Increase/(Decrease)</i> | | 24 | 49 | 65 | 70 | 73 | 76 |
| County-Other | (2011 Plan) | 718 | 871 | 968 | 990 | 980 | 981 |
| County-Other | (2006 Plan) | 806 | 985 | 1,105 | 1,147 | 1,157 | 1,182 |
| <i>Increase/(Decrease)</i> | | (88) | (114) | (137) | (157) | (177) | (201) |
| Bosque County Total | (2011 Plan) | 2,839 | 3,159 | 3,369 | 3,410 | 3,418 | 3,468 |
| Bosque County Total | (2006 Plan) | 2,829 | 3,138 | 3,342 | 3,382 | 3,389 | 3,437 |
| <i>Increase/(Decrease)</i> | | 10 | 21 | 27 | 28 | 29 | 31 |
| <u>Callahan County</u> | | | | | | | |
| Clyde | (2011 Plan) | 305 | 297 | 278 | 259 | 245 | 238 |
| Clyde | (2006 Plan) | 271 | 264 | 247 | 230 | 217 | 211 |
| <i>Increase/(Decrease)</i> | | 34 | 33 | 31 | 29 | 28 | 27 |
| County-Other | (2011 Plan) | 527 | 513 | 484 | 463 | 440 | 431 |
| County-Other | (2006 Plan) | 563 | 548 | 517 | 494 | 470 | 460 |
| <i>Increase/(Decrease)</i> | | (36) | (35) | (33) | (31) | (30) | (29) |
| Callahan County Total | (2011 Plan) | 1,445 | 1,417 | 1,351 | 1,296 | 1,245 | 1,224 |
| Callahan County Total | (2006 Plan) | 1,447 | 1,419 | 1,353 | 1,298 | 1,247 | 1,226 |
| <i>Increase/(Decrease)</i> | | (2) | (2) | (2) | (2) | (2) | (2) |

| County/City | | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 |
|-------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>Eastland County</u> | | | | | | | |
| Eastland | (2011 Plan) | 918 | 908 | 878 | 841 | 806 | 769 |
| Eastland | (2006 Plan) | 863 | 853 | 825 | 790 | 757 | 722 |
| <i>Increase/(Decrease)</i> | | 55 | 55 | 53 | 51 | 49 | 47 |
| County-Other | (2011 Plan) | 784 | 767 | 734 | 696 | 660 | 631 |
| County-Other | (2006 Plan) | 816 | 798 | 764 | 724 | 687 | 657 |
| <i>Increase/(Decrease)</i> | | (32) | (31) | (30) | (28) | (27) | (26) |
| Eastland County Total | (2011 Plan) | 2,962 | 2,909 | 2,796 | 2,662 | 2,535 | 2,421 |
| Eastland County Total | (2006 Plan) | 2,939 | 2,885 | 2,773 | 2,639 | 2,513 | 2,400 |
| <i>Increase/(Decrease)</i> | | 23 | 24 | 23 | 23 | 22 | 21 |
| <u>Hamilton County</u> | | | | | | | |
| Hico | (2011 Plan) | 302 | 297 | 292 | 288 | 285 | 285 |
| Hico | (2006 Plan) | 285 | 281 | 276 | 272 | 269 | 269 |
| <i>Increase/(Decrease)</i> | | 17 | 16 | 16 | 16 | 16 | 16 |
| County-Other | (2011 Plan) | 431 | 407 | 384 | 375 | 356 | 355 |
| County-Other | (2006 Plan) | 440 | 416 | 392 | 383 | 364 | 363 |
| <i>Increase/(Decrease)</i> | | (9) | (9) | (8) | (8) | (8) | (8) |
| Hamilton County Total | (2011 Plan) | 1,287 | 1,246 | 1,207 | 1,184 | 1,154 | 1,153 |
| Hamilton County Total | (2006 Plan) | 1,279 | 1,239 | 1,199 | 1,176 | 1,146 | 1,145 |
| <i>Increase/(Decrease)</i> | | 8 | 7 | 8 | 8 | 8 | 8 |
| <u>Hill County</u> | | | | | | | |
| Hillsboro | (2011 Plan) | 1,819 | 1,862 | 1,911 | 1,957 | 2,030 | 2,123 |
| Hillsboro | (2006 Plan) | 1,728 | 1,768 | 1,815 | 1,859 | 1,928 | 2,017 |
| <i>Increase/(Decrease)</i> | | 91 | 94 | 96 | 98 | 102 | 106 |
| Hubbard | (2011 Plan) | 194 | 188 | 183 | 177 | 173 | 173 |
| Hubbard | (2006 Plan) | 179 | 174 | 169 | 163 | 160 | 160 |
| <i>Increase/(Decrease)</i> | | 15 | 14 | 14 | 14 | 13 | 13 |
| Itasca | (2011 Plan) | 225 | 219 | 212 | 206 | 202 | 201 |
| Itasca | (2006 Plan) | 206 | 201 | 194 | 189 | 185 | 184 |
| <i>Increase/(Decrease)</i> | | 19 | 18 | 18 | 17 | 17 | 17 |
| Whitney | (2011 Plan) | 365 | 370 | 375 | 380 | 391 | 405 |
| Whitney | (2006 Plan) | 346 | 350 | 355 | 360 | 370 | 384 |
| <i>Increase/(Decrease)</i> | | 19 | 20 | 20 | 20 | 21 | 21 |
| County-Other | (2011 Plan) | 268 | 289 | 317 | 345 | 376 | 413 |
| County-Other | (2006 Plan) | 373 | 394 | 423 | 453 | 486 | 526 |
| <i>Increase/(Decrease)</i> | | (105) | (105) | (106) | (108) | (110) | (113) |
| Hill County Total | (2011 Plan) | 4,901 | 5,041 | 5,206 | 5,372 | 5,616 | 5,936 |
| Hill County Total | (2006 Plan) | 4,862 | 5,000 | 5,164 | 5,331 | 5,573 | 5,892 |
| <i>Increase/(Decrease)</i> | | 39 | 41 | 42 | 41 | 43 | 44 |

| County/City | | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 |
|------------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|
| <u>Hood County</u> | | | | | | | |
| Cresson | (2011 Plan) | 43 | 52 | 62 | 74 | 90 | 110 |
| Cresson | (2006 Plan) ** Not a WUG in the 2006 Plan | | | | | | |
| <i>Increase/(Decrease)</i> | | 43 | 52 | 62 | 74 | 90 | 110 |
| deCordova | (2011 Plan) | 593 | 592 | 591 | 592 | 597 | 608 |
| deCordova | (2006 Plan) ** Not a WUG in the 2006 Plan | | | | | | |
| <i>Increase/(Decrease)</i> | | 593 | 592 | 591 | 592 | 597 | 608 |
| Granbury | (2011 Plan) | 2,795 | 3,456 | 4,058 | 4,708 | 5,524 | 6,485 |
| Granbury | (2006 Plan) | 2,369 | 2,811 | 3,213 | 3,651 | 4,201 | 4,851 |
| <i>Increase/(Decrease)</i> | | 426 | 645 | 845 | 1,057 | 1,323 | 1,634 |
| Lipan | (2011 Plan) | 171 | 239 | 333 | 467 | 656 | 924 |
| Lipan | (2006 Plan) ** Not a WUG in the 2006 Plan | | | | | | |
| <i>Increase/(Decrease)</i> | | 171 | 239 | 333 | 467 | 656 | 924 |
| Tolar | (2011 Plan) | 143 | 179 | 213 | 246 | 289 | 342 |
| Tolar | (2006 Plan) ** Not a WUG in the 2006 Plan | | | | | | |
| <i>Increase/(Decrease)</i> | | 143 | 179 | 213 | 246 | 289 | 342 |
| County-Other | (2011 Plan) | 2,863 | 3,301 | 3,689 | 4,094 | 4,597 | 5,184 |
| County-Other | (2006 Plan) | 3,734 | 4,345 | 4,916 | 5,539 | 6,322 | 7,272 |
| <i>Increase/(Decrease)</i> | | (871) | (1,044) | (1,227) | (1,445) | (1,725) | (2,088) |
| Hood County Total | (2011 Plan) | 9,544 | 11,235 | 12,801 | 14,516 | 16,697 | 19,337 |
| Hood County Total | (2006 Plan) | 9,135 | 10,666 | 12,077 | 13,616 | 15,557 | 17,897 |
| <i>Increase/(Decrease)</i> | | 409 | 569 | 724 | 900 | 1,140 | 1,440 |
| <u>Johnson County</u> | | | | | | | |
| Alvarado | (2011 Plan) | 570 | 607 | 654 | 697 | 766 | 858 |
| Alvarado | (2006 Plan) | 487 | 519 | 559 | 596 | 655 | 733 |
| <i>Increase/(Decrease)</i> | | 83 | 88 | 95 | 101 | 111 | 125 |
| Burleson | (2011 Plan) | 4,449 | 6,687 | 8,272 | 8,153 | 8,096 | 8,095 |
| Burleson | (2006 Plan) | 3,320 | 3,752 | 4,240 | 4,762 | 5,446 | 6,326 |
| <i>Increase/(Decrease)</i> | | 1,129 | 2,935 | 4,032 | 3,391 | 2,650 | 1,769 |
| Cleburne | (2011 Plan) | 6,027 | 6,680 | 7,343 | 8,097 | 9,046 | 9,879 |
| Cleburne | (2006 Plan) | 5,748 | 6,370 | 7,003 | 7,722 | 8,666 | 9,879 |
| <i>Increase/(Decrease)</i> | | 279 | 310 | 340 | 375 | 380 | 0 |
| Cresson | (2011 Plan) | 12 | 14 | 17 | 20 | 24 | 29 |
| Cresson | (2006 Plan) ** Not a WUG in the 2006 Plan | | | | | | |
| <i>Increase/(Decrease)</i> | | 12 | 14 | 17 | 20 | 24 | 29 |
| Grandview | (2011 Plan) | 230 | 281 | 342 | 334 | 331 | 331 |
| Grandview | (2006 Plan) | 208 | 219 | 229 | 241 | 259 | 285 |
| <i>Increase/(Decrease)</i> | | 22 | 62 | 113 | 93 | 72 | 46 |
| Joshua | (2011 Plan) | 801 | 882 | 968 | 1,068 | 1,202 | 1,377 |
| Joshua | (2006 Plan) | 744 | 819 | 899 | 992 | 1,117 | 1,279 |
| <i>Increase/(Decrease)</i> | | 57 | 63 | 69 | 76 | 85 | 98 |
| Venus | (2011 Plan) | 363 | 358 | 349 | 344 | 342 | 342 |
| Venus | (2006 Plan) | 282 | 278 | 271 | 267 | 265 | 265 |
| <i>Increase/(Decrease)</i> | | 81 | 80 | 78 | 77 | 77 | 77 |

| County/City | | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 |
|--------------------------------|---|--------------|--------------|--------------|----------------|----------------|----------------|
| County-Other | (2011 Plan) | 2,252 | 2,287 | 2,323 | 2,363 | 2,427 | 2,517 |
| County-Other | (2006 Plan) | 2,776 | 2,871 | 2,969 | 3,076 | 3,228 | 3,430 |
| <i>Increase/(Decrease)</i> | | <i>(524)</i> | <i>(584)</i> | <i>(646)</i> | <i>(713)</i> | <i>(801)</i> | <i>(913)</i> |
| Johnson County Total | (2011 Plan) | 27,498 | 33,982 | 40,146 | 45,265 | 51,890 | 59,286 |
| Johnson County Total | (2006 Plan) | 26,359 | 31,014 | 36,048 | 41,845 | 49,292 | 58,055 |
| <i>Increase/(Decrease)</i> | | <i>1,139</i> | <i>2,968</i> | <i>4,098</i> | <i>3,420</i> | <i>2,598</i> | <i>1,231</i> |
| <u>Lampasas County</u> | | | | | | | |
| Lampasas | (2011 Plan) | 1,842 | 2,016 | 2,119 | 2,174 | 2,223 | 2,082 |
| Lampasas | (2006 Plan) | 1,570 | 1,583 | 1,579 | 1,563 | 1,563 | 1,548 |
| <i>Increase/(Decrease)</i> | | <i>272</i> | <i>433</i> | <i>540</i> | <i>611</i> | <i>660</i> | <i>534</i> |
| County-Other | (2011 Plan) | 950 | 966 | 977 | 982 | 986 | 1,112 |
| County-Other | (2006 Plan) | 1,152 | 1,289 | 1,385 | 1,450 | 1,494 | 1,529 |
| <i>Increase/(Decrease)</i> | | <i>(202)</i> | <i>(323)</i> | <i>(408)</i> | <i>(468)</i> | <i>(508)</i> | <i>(417)</i> |
| Lampasas County Total | (2011 Plan) | 4,537 | 5,066 | 5,422 | 5,662 | 5,827 | 5,891 |
| Lampasas County Total | (2006 Plan) | 4,467 | 4,956 | 5,290 | 5,519 | 5,675 | 5,774 |
| <i>Increase/(Decrease)</i> | | <i>70</i> | <i>110</i> | <i>132</i> | <i>143</i> | <i>152</i> | <i>117</i> |
| <u>Limestone County</u> | | | | | | | |
| Kosse | (2011 Plan) | 75 | 75 | 74 | 73 | 73 | 74 |
| Kosse | (2006 Plan) ** Not a WUG in the 2006 Plan | | | | | | |
| <i>Increase/(Decrease)</i> | | <i>75</i> | <i>75</i> | <i>74</i> | <i>73</i> | <i>73</i> | <i>74</i> |
| County-Other | (2011 Plan) | 828 | 765 | 703 | 642 | 594 | 551 |
| County-Other | (2006 Plan) | 883 | 819 | 756 | 693 | 645 | 602 |
| <i>Increase/(Decrease)</i> | | <i>(55)</i> | <i>(54)</i> | <i>(53)</i> | <i>(51)</i> | <i>(51)</i> | <i>(51)</i> |
| Limestone County Total | (2011 Plan) | 3,313 | 3,468 | 3,531 | 3,566 | 3,638 | 3,775 |
| Limestone County Total | (2006 Plan) | 3,293 | 3,447 | 3,510 | 3,544 | 3,616 | 3,752 |
| <i>Increase/(Decrease)</i> | | <i>20</i> | <i>21</i> | <i>21</i> | <i>22</i> | <i>22</i> | <i>23</i> |
| <u>McLennan County</u> | | | | | | | |
| Robinson | (2011 Plan) | 1,268 | 1,462 | 1,611 | 1,756 | 1,857 | 2,030 |
| Robinson | (2006 Plan) | 1,110 | 1,153 | 1,182 | 1,210 | 1,236 | 1,291 |
| <i>Increase/(Decrease)</i> | | <i>158</i> | <i>309</i> | <i>429</i> | <i>546</i> | <i>621</i> | <i>739</i> |
| County-Other | (2011 Plan) | 6,345 | 6,332 | 6,361 | 6,359 | 6,384 | 6,466 |
| County-Other | (2006 Plan) | 6,635 | 6,904 | 7,167 | 7,399 | 7,574 | 7,881 |
| <i>Increase/(Decrease)</i> | | <i>(290)</i> | <i>(572)</i> | <i>(806)</i> | <i>(1,040)</i> | <i>(1,190)</i> | <i>(1,415)</i> |
| McLennan County Total | (2011 Plan) | 46,914 | 49,741 | 52,122 | 54,570 | 56,158 | 58,728 |
| McLennan County Total | (2006 Plan) | 47,046 | 50,004 | 52,499 | 55,064 | 56,727 | 59,404 |
| <i>Increase/(Decrease)</i> | | <i>(132)</i> | <i>(263)</i> | <i>(377)</i> | <i>(494)</i> | <i>(569)</i> | <i>(676)</i> |
| <u>Milam County</u> | | | | | | | |
| Cameron | (2011 Plan) | 1,606 | 1,756 | 1,840 | 1,881 | 1,880 | 1,888 |
| Cameron | (2006 Plan) | 1,452 | 1,433 | 1,414 | 1,395 | 1,382 | 1,382 |
| <i>Increase/(Decrease)</i> | | <i>154</i> | <i>323</i> | <i>426</i> | <i>486</i> | <i>498</i> | <i>506</i> |
| Milam County Total | (2011 Plan) | 4,980 | 5,291 | 5,464 | 5,559 | 5,560 | 5,580 |
| Milam County Total | (2006 Plan) | 4,826 | 4,968 | 5,038 | 5,073 | 5,062 | 5,074 |
| <i>Increase/(Decrease)</i> | | <i>154</i> | <i>323</i> | <i>426</i> | <i>486</i> | <i>498</i> | <i>506</i> |

| County/City | | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 |
|---------------------------------|-------------|-------------------------------|-------------|-------------|-------------|-------------|-------------|
| <u>Somervell County</u> | | | | | | | |
| Glen Rose | (2011 Plan) | 659 | 728 | 785 | 817 | 830 | 836 |
| Glen Rose | (2006 Plan) | 545 | 559 | 572 | 577 | 579 | 581 |
| <i>Increase/(Decrease)</i> | | 114 | 169 | 213 | 240 | 251 | 255 |
| County-Other | (2011 Plan) | 481 | 519 | 547 | 559 | 562 | 566 |
| County-Other | (2006 Plan) | 526 | 586 | 630 | 652 | 659 | 664 |
| <i>Increase/(Decrease)</i> | | (45) | (67) | (83) | (93) | (97) | (98) |
| Somervell County Total | (2011 Plan) | 1,140 | 1,247 | 1,332 | 1,376 | 1,392 | 1,402 |
| Somervell County Total | (2006 Plan) | 1,071 | 1,145 | 1,202 | 1,229 | 1,238 | 1,245 |
| <i>Increase/(Decrease)</i> | | 69 | 102 | 130 | 147 | 154 | 157 |
| <u>Williamson County</u> | | | | | | | |
| Cedar Park | (2011 Plan) | 11,961 | 16,571 | 17,910 | 21,779 | 21,779 | 21,780 |
| Cedar Park | (2006 Plan) | 10,744 | 14,886 | 20,708 | 25,883 | 31,068 | 37,892 |
| <i>Increase/(Decrease)</i> | | 1,217 | 1,685 | (2,798) | (4,104) | (9,289) | (16,112) |
| Florence | (2011 Plan) | 242 | 283 | 332 | 386 | 447 | 515 |
| Florence | (2006 Plan) | 224 | 262 | 307 | 357 | 413 | 476 |
| <i>Increase/(Decrease)</i> | | 18 | 21 | 25 | 29 | 34 | 39 |
| Georgetown | (2011 Plan) | 10,342 | 13,956 | 18,187 | 22,826 | 27,979 | 33,506 |
| Georgetown | (2006 Plan) | 8,610 | 11,619 | 15,141 | 19,003 | 23,293 | 27,895 |
| <i>Increase/(Decrease)</i> | | 1,732 | 2,337 | 3,046 | 3,823 | 4,686 | 5,611 |
| Granger | (2011 Plan) | 207 | 219 | 234 | 248 | 268 | 293 |
| Granger | (2006 Plan) | 185 | 196 | 209 | 222 | 240 | 262 |
| <i>Increase/(Decrease)</i> | | 22 | 23 | 25 | 26 | 28 | 31 |
| Hutto | (2011 Plan) | 1,689 | 2,290 | 3,001 | 3,766 | 4,627 | 5,550 |
| Hutto | (2006 Plan) | 247 | 335 | 439 | 551 | 677 | 812 |
| <i>Increase/(Decrease)</i> | | 1,442 | 1,955 | 2,562 | 3,215 | 3,950 | 4,738 |
| Jarrell | (2011 Plan) | 208 | 210 | 212 | 216 | 219 | 207 |
| Jarrell | (2006 Plan) | ** Not a WUG in the 2006 Plan | | | | | |
| <i>Increase/(Decrease)</i> | | 208 | 210 | 212 | 216 | 219 | 207 |
| Jarrell-Schwertner WSC | (2011 Plan) | 479 | 722 | 1,006 | 1,308 | 1,651 | 2,019 |
| Jarrell-Schwertner WSC | (2006 Plan) | 769 | 1,017 | 1,306 | 1,614 | 1,965 | 2,342 |
| <i>Increase/(Decrease)</i> | | (290) | (295) | (300) | (306) | (314) | (323) |
| Leander | (2011 Plan) | 3,887 | 5,380 | 7,119 | 9,028 | 11,156 | 13,439 |
| Leander | (2006 Plan) | 1,971 | 2,728 | 3,610 | 4,578 | 5,657 | 6,815 |
| <i>Increase/(Decrease)</i> | | 1,916 | 2,652 | 3,509 | 4,450 | 5,499 | 6,624 |
| Round Rock | (2011 Plan) | 23,103 | 31,146 | 40,704 | 51,176 | 62,801 | 72,268 |
| Round Rock | (2006 Plan) | 19,239 | 25,937 | 33,896 | 42,617 | 52,298 | 62,680 |
| <i>Increase/(Decrease)</i> | | 3,864 | 5,209 | 6,808 | 8,559 | 10,503 | 9,588 |
| Taylor | (2011 Plan) | 2,913 | 3,279 | 3,705 | 4,183 | 4,727 | 5,342 |
| Taylor | (2006 Plan) | 2,522 | 2,839 | 3,208 | 3,622 | 4,093 | 4,625 |
| <i>Increase/(Decrease)</i> | | 391 | 440 | 497 | 561 | 634 | 717 |
| Thrall | (2011 Plan) | 140 | 165 | 196 | 228 | 263 | 304 |
| Thrall | (2006 Plan) | 123 | 145 | 172 | 200 | 231 | 267 |
| <i>Increase/(Decrease)</i> | | 17 | 20 | 24 | 28 | 32 | 37 |

| County/City | | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 |
|----------------------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|
| County-Other | (2011 Plan) | 371 | 267 | 378 | 1,729 | 3,533 | 4,651 |
| County-Other | (2006 Plan) | 429 | 333 | 452 | 1,812 | 3,627 | 4,757 |
| <i>Increase/(Decrease)</i> | | <i>(58)</i> | <i>(66)</i> | <i>(74)</i> | <i>(83)</i> | <i>(94)</i> | <i>(106)</i> |
| Williamson County Total | (2011 Plan) | 68,167 | 92,375 | 116,187 | 145,655 | 174,373 | 204,294 |
| Williamson County Total | (2006 Plan) | 57,688 | 78,184 | 102,651 | 129,241 | 158,485 | 190,243 |
| <i>Increase/(Decrease)</i> | | <i>10,479</i> | <i>14,191</i> | <i>13,536</i> | <i>16,414</i> | <i>15,888</i> | <i>14,051</i> |
| Brazos G Total | (2011 Plan) | 361,419 | 417,462 | 466,106 | 515,151 | 565,027 | 615,483 |
| Brazos G Total | (2006 Plan) | 347,389 | 397,090 | 444,820 | 491,312 | 542,172 | 595,482 |
| <i>Increase/(Decrease)</i> | | <i>14,030</i> | <i>20,372</i> | <i>21,286</i> | <i>23,839</i> | <i>22,855</i> | <i>20,001</i> |

Attachment C
Recommended Steam-Electric Water Demand
Projections

Water Demand Projections for Steam-Electric Power Generation in Brazos G (acft/yr)

| County | Source of Projection | | | | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 |
|----------|---------------------------|-----------------------------|---------------------------|-----------------------------------|--------|--------|--------|--------|--------|--------|
| | 2006 Brazos G Projections | 2008 TWDB (BEG) Projections | Diermann/ HDR Projections | Change Based on Comments Received | | | | | | |
| Bell | ✓ | | | | 0 | 3,674 | 4,296 | 5,053 | 5,977 | 7,102 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Bosque | ✓ | | | | 4,323 | 6,188 | 7,235 | 8,510 | 10,065 | 11,961 |
| | | ✓ | | | 1,905 | 1,355 | 1,323 | 2,044 | 2,223 | 2,991 |
| Brazos | ✓ | | | | 453 | 361 | 422 | 497 | 588 | 698 |
| | | ✓ | | | 526 | 488 | 394 | 446 | 303 | 393 |
| Burleson | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Callahan | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Comanche | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Coryell | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Eastland | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Erath | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Falls | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Fisher | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Grimes | ✓ | | | | 9,302 | 11,768 | 13,758 | 16,184 | 19,141 | 22,746 |
| | | ✓ | | | 25,968 | 16,516 | 14,560 | 11,093 | 10,687 | 11,947 |
| | | | ✓ | | 12,000 | 31,760 | 33,160 | 34,660 | 36,660 | 39,660 |
| Hamilton | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Haskell | ✓ | | | | 422 | 336 | 393 | 462 | 547 | 650 |
| | | ✓ | | ✓ | 0 | 0 | 0 | 0 | 0 | 0 |
| Hill | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Hood | ✓ | | | | 6,594 | 8,098 | 9,467 | 11,137 | 13,172 | 15,653 |
| | | ✓ | | | 2,922 | 2,107 | 2,042 | 3,122 | 3,361 | 4,520 |
| | | | ✓ | | 4,000 | 5,862 | 6,853 | 8,062 | 9,535 | 11,331 |
| | | | | ✓ | 5,100 | 10,200 | 10,200 | 10,200 | 10,200 | 10,200 |
| Johnson | ✓ | | | | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 |
| | | ✓ | | | 418 | 297 | 290 | 449 | 488 | 656 |
| | | | ✓ | | 3,500 | 7,000 | 7,000 | 7,000 | 7,000 | 7,000 |
| Jones | ✓ | | | | 1,255 | 1,001 | 1,170 | 1,376 | 1,628 | 1,935 |
| | | ✓ | | | 359 | 333 | 294 | 396 | 364 | 484 |
| | | | | ✓ | 0 | 0 | 0 | 0 | 0 | 0 |
| Kent | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |

| County | Source of Projection | | | | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 |
|---|---------------------------|-----------------------------|---------------------------|-----------------------------------|---------|---------|---------|---------|---------|---------|
| | 2006 Brazos G Projections | 2008 TWDB (BEG) Projections | Diermann/ HDR Projections | Change Based on Comments Received | | | | | | |
| Knox | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Lampasas | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Lee | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Limestone | ✓ | | | | 22,332 | 22,598 | 26,420 | 31,079 | 36,758 | 43,681 |
| | | ✓ | | | 12,725 | 11,314 | 25,507 | 32,733 | 44,847 | 46,899 |
| McLennan | ✓ | | | | 37,098 | 32,983 | 35,720 | 39,056 | 43,123 | 48,081 |
| | | ✓ | | | 3,808 | 11,217 | 14,305 | 15,538 | 17,901 | 19,142 |
| Milam | ✓ | | | | 8,680 | 12,500 | 12,500 | 12,500 | 16,000 | 16,000 |
| | | ✓ | | | 4,057 | 8,580 | 16,695 | 20,401 | 27,458 | 28,715 |
| | | | ✓ | | 12,500 | 12,500 | 12,500 | 12,500 | 16,000 | 16,000 |
| Nolan | ✓ | | | | 1,315 | 1,882 | 2,200 | 2,588 | 3,061 | 3,638 |
| | | ✓ | | | 807 | 11,311 | 43,524 | 63,253 | 89,903 | 94,298 |
| | | | ✓ | | 807 | 11,311 | 20,000 | 20,000 | 20,000 | 20,000 |
| Palo Pinto | ✓ | | | | 1,365 | 1,250 | 1,461 | 1,719 | 2,033 | 2,416 |
| | | ✓ | | | 613 | 569 | 501 | 667 | 606 | 805 |
| | | | ✓ | | 840 | 4,000 | 4,000 | 4,000 | 4,000 | 4,000 |
| Robertson | ✓ | | | | 28,000 | 30,000 | 30,000 | 35,000 | 40,000 | 40,000 |
| | | ✓ | | | 15,789 | 17,882 | 31,113 | 36,369 | 48,118 | 50,319 |
| Shackelford | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Somervell | ✓ | | | | 84,817 | 84,817 | 84,817 | 84,817 | 84,817 | 84,817 |
| | | ✓ | | | 34,829 | 76,382 | 53,861 | 66,570 | 96,829 | 127,089 |
| Stephens | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Stonewall | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Taylor | ✓ | | | | 25 | 20 | 24 | 28 | 33 | 39 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Throckmorton | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Washington | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Williamson | ✓ | | | | 0 | 0 | 0 | 0 | 0 | 0 |
| | | ✓ | | | 0 | 0 | 0 | 0 | 0 | 0 |
| Young | ✓ | | | | 2,170 | 1,730 | 2,023 | 2,379 | 2,814 | 3,344 |
| | | ✓ | | | 627 | 581 | 515 | 692 | 636 | 846 |
| Total of 2006 Brazos G Projections | | | | | 209,351 | 220,406 | 233,106 | 253,585 | 280,957 | 303,961 |
| Total of 2008 BEG Projections | | | | | 105,354 | 158,931 | 204,925 | 253,771 | 343,722 | 389,104 |
| Total of Projections Recommended for 2011 Plan | | | | | 168,512 | 225,365 | 257,462 | 272,550 | 300,613 | 317,619 |

Note:

Shaded cells represent the steam-electric demand recommended for use in the 2011 Plan.

Attachment D
Comments Received on Initially Recommended
Steam-Electric Water Demand Projections



RECEIVED

1044 N. 115 Street, Suite 400
Omaha, Nebraska 68154-4446
402-691-9500
FAX: 402-691-9526

2009 MAY 11 AM 10: 57

May 8, 2009

BRAZOS RIVER
AUTHORITY

Mr. Trey Buzbee
Project Manager
Brazos G Regional Water Planning Group
P.O. Box 7555
Waco, Texas 76714-7555

Re: Steam-Electric Demands for 2011 Brazos G Regional Water Plan

Dear Mr. Buzbee:

Thank you for your letter dated April 23, 2009, and the opportunity to comment on the above-referenced document. As you know, Tenaska is currently developing the Tenaska Trailblazer Energy Center ("TTEC") in Nolan County. The TTEC will generate approximately 765 megawatts ("MW") gross and 600 MW net, using best available supercritical steam, pulverized coal technology. The plant will be designed to capture 85 to 90 percent of the carbon dioxide produced during combustion and deliver it via pipeline to Permian Basin oil fields for use in enhanced oil recovery ("EOR") and ultimately, geologic storage. We anticipate that the TTEC will be ready for commercial operation in 2015.

Current design calls for the TTEC to use air cooled condenser technology with an anticipated maximum water demand of about 2,000 acre-feet/year. However, the TTEC design could shift to more efficient and less expensive wet cooling if sufficient water supply can be secured consistent with the other needs of the area. Under the wet cooling case, water usage on the order of 12,000 acre-feet/year would be anticipated.

Although Tenaska currently has no plans to expand the TTEC, for planning purposes, it would be reasonable to assume that the TTEC might expand at some point after commercial operations begins. Consequently, the 20,000 acre-feet/year earmarked for steam-electric demand in Nolan County over the Brazos G plan horizon seems reasonable at this time and allows for future growth in this sector.

Sincerely,

TENASKA

M. Fred Strauss, P.G.
Director, Environmental Programs

RECEIVED

2009 MAY 18 AM 10: 48

BRAZOS RIVER
AUTHORITY



**9201 Wolf Hollow Court
Granbury, TX 76048
817-579-8201
Fax 817-579-1190**

May 14, 2009

Trey Buzbee
Project Manager
Brazos G Regional Water Planning Group

Mr. Buzbee,

Wolf Hollow has reviewed the Brazos G Regional Water Planning Group's steam-electric demand projections for Wolf Hollow I. The projection listed in Table 1 (Alternative Steam-Electric Demand Projections for Six Brazos G Counties) for year 2010 currently states the projection of 4,000 acre feet.

Based on previous usage, current and predicted capacity factor for the plant, the projected usage for year 2010 should be 5,100 acre feet.

Based on current plans, the projected usage for 2020, 2030, 2040, 2050 and 2060 should 10,200 acre feet.

Please feel free to contact us if there are other questions.

Sincerely,

A handwritten signature in black ink, appearing to read "K. Fleetwood". The signature is fluid and cursive.

Kelly Fleetwood
Plant Manager

Cc: file

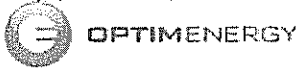
Trey Buzbee

From: Young, Eddy [Eddy.Young@optimenergy.com]
Sent: Thursday, May 14, 2009 5:46 AM
To: Trey Buzbee
Cc: Faulkner, George; Rahn, Nick
Subject: Brazos G Water Planning

Trey:

Thanks for taking my call Tuesday concerning the Brazos G water planning information you are working on. As of today (May 14, 2009) Optim Energy nor Twin Oaks is planning any expansion activities that would increase water use in any of the counties mentioned your letter. If we do decide something in the near future I will forward that information to you. Please let me know if you have any questions or need additional information.

Have A Blessed Day
Eddy Young
Environmental Coordinator
Optim Energy LP, Twin Oaks
P.O. Box 37
Bremond, TX 76629
(254) 746-7604 ext. 378 (office)
(254) 746-7159 (fax)
(979) 777-7962 (mobile)
eddy.young@optimenergy.com



Trey Buzbee

From: wgcarter@aep.com
Sent: Friday, May 15, 2009 12:07 PM
To: Trey Buzbee
Cc: mcmccullough@aep.com; chadami@aep.com; tjslater1@aep.com
Subject: Brazos G Steam Electric Estimates

Trey -

I currently serve on the Region D planning group and am coordinating American Electric Power's response to your request for feedback. Please note that I worked with other utility representatives on the 2003 report contracted by TWDB that was the basis for the 2006 steam electric demand, and I had reviewed and provided comments to the Bureau of Economic Geology regarding their estimates. I had concerns over some of the BEG report assumptions and recently completed my own statewide and regional steam electric estimates which are attached below for Region G and which have been provided to the TWDB's Stuart Norvell as well as a number of steam electric reps on select regions. I also have a revised version of my spreadsheet that attempts to account for the higher water demand due to possible future carbon capture requirements. If you are interested in a copy of my work I will be glad to forward it to you.

That being said - my comments regarding the proposed Brazos G estimates are as follows:

- The AEP (formerly West Texas Utilities) plants in Jones, Haskell and Taylor counties have been retired. If you wish, the steam electric demand for those counties may be set to zero. As you are probably aware, for the past several years, the Abilene area has been the focus of significant growth in wind generation which has minimal water demand.

Brazos G Steam Electric Water Demand - assumes no carbon capture

| | 2000 | 2006 | 2010 | 2020 | 2030 | 2040 | 2050 | 2060 |
|----------------|----------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|
| BELL | 0 | 0 | 0 | 863 | 2,131 | 2,547 | 3,045 | 3,639 |
| BOSQUE | 521 | 821 | 1,663 | 563 | 1,379 | 1,648 | 1,970 | 2,355 |
| BRAZOS | 545 | 588 | 127 | 67 | 112 | 134 | 160 | 191 |
| BURLESON | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CALLAHAN | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| COMANCHE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| CORYELL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| EASTLAND | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ERATH | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FALLS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| FISHER | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| GRIMES | 4,405 | 7,149 | 5,988 | 11,095 | 13,763 | 16,451 | 19,663 | 23,504 |
| HAMILTON | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HASKELL | 507 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HILL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| HOOD | 2,573 | 2,746 | 2,526 | 1,579 | 3,671 | 4,389 | 5,246 | 6,270 |
| JOHNSON | 0 | 325 | 665 | 223 | 551 | 659 | 788 | 942 |
| JONES | 1,510 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KENT | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| KNOX | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LAMPASAS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LEE | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| LIMESTONE | 22,065 | 23,403 | 22,211 | 25,622 | 25,622 | 30,626 | 36,607 | 43,756 |
| MCLENNAN | 24,412 | 427 | 1,253 | 12,459 | 12,874 | 15,389 | 18,394 | 21,987 |
| MILAM | 4,048 | 4,166 | 8,741 | 8,741 | 8,741 | 10,448 | 12,488 | 14,927 |
| NOLAN | 1,093 | 204 | 0 | 7,338 | 7,338 | 8,771 | 10,483 | 12,531 |
| PALO PINTO | 1,378 | 518 | 357 | 179 | 298 | 356 | 425 | 508 |
| ROBERTSON | 4,322 | 4,330 | 17,223 | 17,223 | 17,223 | 20,586 | 24,607 | 29,412 |
| SHACKELFORD | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| SOMERVELL | 76,505 | 45,826 | 44,136 | 87,464 | 87,464 | 104,546 | 124,964 | 149,370 |
| STEPHENS | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| STONEWALL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TAYLOR | 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| THROCKMORTC | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WASHINGTON | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WILLIAMSON (P) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| YOUNG (P) | 2,610 | 556 | 717 | 358 | 597 | 714 | 853 | 1,020 |
| | 146,524 | 91,059 | 105,607 | 173,772 | 181,763 | 217,262 | 259,694 | 310,412 |

Thanks

W. Greg Carter, P.E.

AEP Region 5 Engineering

e-mail: wgcarter@aep.com

Welsh Phone 903-853-4863

Cell Phone: 903-746-4585

Pirkey Phone 903-927-5896