



**RIVERBEND RESOLUTION NO. 20171024-02**

**APPROVING THE FINAL POPULATION AND WATER DEMAND PROJECTIONS OF THE RIVERBEND REGIONAL WATER MASTER PLAN STUDY FOR SUBMISSION TO THE REGION D PLANNING GROUP**

**WHEREAS**, Riverbend Water Resources District is a conservation and reclamation district created under and essential to accomplish the purposes of Section 59 Article XVI, Texas Constitution, existing pursuant to and having the powers set forth in Chapter 9601 of the Special District Local Laws code of the State of Texas;

**WHEREAS**, Riverbend Water Resources District authorized the negotiation and execution of an agreement with Susan Roth consulting for the completion of a Regional Water Master Plan on May 11, 2016; entered into an agreement with and acquired the wet utilities from TexAmericas Center and with the acquisition assumed the role of project coordinator, manager and general supervisor for a variety of ongoing and immediately forthcoming projects; and

**WHEREAS**, Susan Roth Consulting and subcontractors have made substantial progress in the review of the region's current water supply and infrastructure, as well as the region's population and water demand projections for both municipal and non-municipal uses; and

**WHEREAS**, Susan Roth Consulting provided a first draft presentation of population and water demand projection revisions at a Riverbend Town Hall in January of 2017; and

**WHEREAS**, Susan Roth Consulting provided a final draft of revisions to the population and water demand projections on October 24, 2017 at a Riverbend Town Hall; and

**WHEREAS**, Riverbend and Susan Roth Consulting wish to present these final revisions for approval by the Region D Planning Group on October 25, 2017; and

**WHEREAS**, Riverbend and Susan Roth Consulting will work with the Texas Water Development Board for further state approval of these revisions; and




**NOW, THEREFORE, BE IT RESOLVED** that the Board of Directors of the Riverbend Water Resources District hereby approves and adopts the revisions to population and water demand projections presented by Susan Roth Consulting for further presentation to the Region D Planning Group with the intent that such revisions be further adopted by the Region D Planning Group for inclusion in the current and next round of the State Water Plan.

**PASSED and APPROVED** this 24<sup>th</sup> day of October 2017

  
Marshall Wood, President

ATTEST:

  
Sean Rommel, Secretary



Riverbend Water Resources District  
Regional Water Master Plan  
Population Projections for Study Area

| Entity   | POPULATION |       |       |       |       |        |        |        |        |        |        |        |
|--|------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
|  | 2015       | 2020  | 2025  | 2030  | 2035  | 2040   | 2045   | 2050   | 2055   | 2060   | 2065   | 2070   |
| <b>Bowie County</b>  |            |       |       |       |       |        |        |        |        |        |        |        |
| TWDB Projections (2016 & Draft 2021 Reg. D Water Plan)     | 94134      | 95703 | 97058 | 98413 | 98838 | 99263  | 99263  | 99263  | 99263  | 99263  | 99263  | 99263  |
| - County Other (Red River Basin)                           | 8378       | 6834  | 6931  | 7028  | 7058  | 7088   | 7088   | 7088   | 7088   | 7088   | 7088   | 7088   |
| - County Other (Sulphur River Basin)                       | 15226      | 13078 | 13320 | 13561 | 13637 | 13712  | 13712  | 13712  | 13712  | 13712  | 13712  | 13712  |
| <b>Texas State Data Center Projections (0.5 Migration)</b> |            |       |       |       |       |        |        |        |        |        |        |        |
| Texas State Data Center Projections (0.5 Migration)        | 94114      | 95768 | 97459 | 98803 | 99614 | 100006 | 100211 | 100503 | 101642 | 102592 | 103652 | 104724 |
| Rice Univ./Hobby Center Projections (0.5 Migration)        | 93848      | 95118 | 96362 | 97314 | 97814 | 98300  | 98735  | 99030  | 99446  | 99852  | 100162 | 100882 |
| Rice Univ./Hobby Center Projections (1.0 Migration)        | 94041      | 95668 | 97013 | 98358 | 98783 | 99207  | 99599  | 100039 | 100539 | 100894 | 101757 | 102628 |
| Rice Univ./Hobby Center Projections (1.0 Migration)        | 93658      | 94687 | 95406 | 96125 | 96007 | 95889  | 95425  | 94960  | 95264  | 95568  | 95874  | 96181  |
| U.S. Census Bureau Projections (linear)                    | 93389      | 94220 | 95059 | 95905 | 96759 | 97620  | 98489  | 99366  | 100251 | 101143 | 102043 | 102952 |
| <b>Cass County</b>   |            |       |       |       |       |        |        |        |        |        |        |        |
| TWDB Projections (2016 & Draft 2021 Reg. D Water Plan)     | 30740      | 31016 | 31123 | 31229 | 31229 | 31229  | 31229  | 31229  | 31229  | 31229  | 31229  | 31229  |
| - County Other (Cypress Creek Basin)                       | 12423      | 13965 | 14013 | 14060 | 14060 | 14060  | 14060  | 14060  | 14060  | 14060  | 14060  | 14060  |
| - County Other (Sulphur River Basin)                       | 6334       | 3885  | 3898  | 3911  | 3911  | 3911   | 3911   | 3911   | 3911   | 3911   | 3911   | 3911   |
| <b>Texas State Data Center Projections (0.5 Migration)</b> |            |       |       |       |       |        |        |        |        |        |        |        |
| Texas State Data Center Projections (0.5 Migration)        | 30906      | 31323 | 31664 | 31861 | 31846 | 31678  | 31498  | 31326  | 31435  | 31545  | 31656  | 31766  |
| Rice Univ./Hobby Center Projections (1.0 Migration)        | 31323      | 32050 | 32634 | 33012 | 33144 | 33060  | 32905  | 32834  | 33143  | 33455  | 33770  | 34087  |
| Rice Univ./Hobby Center Projections (0.5 Migration)        | 30756      | 31017 | 31123 | 31229 | 30995 | 30760  | 30442  | 30123  | 30081  | 30038  | 29996  | 29954  |
| Rice Univ./Hobby Center Projections (1.0 Migration)        | 31040      | 31457 | 31593 | 31729 | 31492 | 31255  | 30884  | 30512  | 30518  | 30524  | 30530  | 30536  |
| U.S. Census Bureau Projections (linear)                    | 30313      | 30163 | 30013 | 29864 | 29716 | 29569  | 29423  | 29277  | 29132  | 28987  | 28844  | 28701  |
| <b>Red River County</b>                                    |            |       |       |       |       |        |        |        |        |        |        |        |
| TWDB Projections (2016 & Draft 2021 Reg. D Water Plan)     | 12918      | 12976 | 12976 | 12976 | 12976 | 12976  | 12976  | 12976  | 12976  | 12976  | 12976  | 12976  |
| - County Other (Red River Basin)                           | 1297       | 944   | 896   | 848   | 800   | 751    | 703    | 655    | 377    | 98     | 55     | 11     |
| - County Other (Sulphur River Basin)                       | 1473       | 929   | 795   | 661   | 527   | 393    | 259    | 124    | 220    | 316    | 177    | 38     |
| <b>Texas State Data Center Projections (0.5 Migration)</b> |            |       |       |       |       |        |        |        |        |        |        |        |
| Texas State Data Center Projections (0.5 Migration)        | 12998      | 13113 | 13106 | 12943 | 12738 | 12514  | 12271  | 12064  | 11966  | 11873  | 11778  | 11686  |
| Rice Univ./Hobby Center Projections (1.0 Migration)        | 13227      | 13468 | 13594 | 13497 | 13308 | 13105  | 12822  | 12568  | 12533  | 12497  | 12462  | 12426  |
| Rice Univ./Hobby Center Projections (0.5 Migration)        | 12930      | 12976 | 12843 | 12710 | 12645 | 12541  | 12431  | 12344  | 12308  | 12284  | 12262  | 12240  |
| Rice Univ./Hobby Center Projections (1.0 Migration)        | 13067      | 13174 | 13060 | 12945 | 12845 | 12744  | 12645  | 12544  | 12488  | 12446  | 12406  | 12366  |
| U.S. Census Bureau Projections (linear)                    | 12455      | 12063 | 11683 | 11315 | 10959 | 10613  | 10279  | 9955   | 9642   | 9338   | 9044   | 8759   |
| <b>Central Bowie County WSC*</b>                           |            |       |       |       |       |        |        |        |        |        |        |        |
| TWDB Projections (2016 Reg. D Water Plan)                  | 6539       | 7652  | 7761  | 7869  | 7903  | 7937   | 7937   | 7937   | 7937   | 7937   | 7937   | 7937   |
| TWDB Projections (2021 Draft Reg. D Water Plan)            |            | 7529  | 7636  | 7742  | 7776  | 7809   | 7809   | 7809   | 7809   | 7809   | 7809   | 7809   |
| WSC Projections for existing service area                  | 6718       | 7529  | 7636  | 8037  | 8459  | 8903   | 9370   | 9862   | 10379  | 10924  | 11497  | 12101  |
| Proposed Developments                                      |            |       |       |       |       |        |        |        |        |        |        |        |
| Sum for Central Bowie Co WSC Area                          | 6718       | 7529  | 7636  | 8037  | 8459  | 8903   | 9370   | 9862   | 10379  | 10924  | 11497  | 12101  |
| <b>City of Annona*</b>                                     |            |       |       |       |       |        |        |        |        |        |        |        |
| City's Projections for existing CCN                        | 317        | 318   | 320   | 321   | 323   | 325    | 326    | 328    | 329    | 331    | 333    | 334    |
| Proposed Developments within service area                  |            |       |       |       |       |        |        |        |        |        |        |        |
| Sum for City of Annona Area                                | 317        | 318   | 320   | 321   | 323   | 325    | 326    | 328    | 329    | 331    | 333    | 334    |
| <b>City of Atlanta*</b>                                    |            |       |       |       |       |        |        |        |        |        |        |        |
| TWDB Projections (2016 Reg. D Water Plan)                  | 5727       | 5778  | 5798  | 5818  | 5818  | 5818   | 5818   | 5818   | 5818   | 5818   | 5818   | 5818   |
| TWDB Projections (2021 Draft Reg. D Water Plan)            |            | 5672  | 5692  | 5711  | 5711  | 5711   | 5711   | 5711   | 5711   | 5711   | 5711   | 5711   |
| City's Projections for existing CCN                        | 5619       | 5877  | 6135  | 6394  | 6652  | 6910   | 7168   | 7427   | 7427   | 7427   | 7427   | 7427   |







| Entity                                      | POPULATION |       |       |       |       |       |       |       |       |       |       |       |
|---|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|   | 2015       | 2020  | 2025  | 2030  | 2035  | 2040  | 2045  | 2050  | 2055  | 2060  | 2065  | 2070  |
| City of New Boston*                         | 4828       | 4705  | 4772  | 4838  | 4859  | 4880  | 4880  | 4880  | 4880  | 4880  | 4880  | 4880  |
|   |            | 5960  | 6045  | 6129  | 6155  | 6180  | 6180  | 6180  | 6180  | 6180  | 6180  | 6180  |
|   | 5255       | 5960  | 6045  | 6129  | 6155  | 6180  | 6180  | 6180  | 6180  | 6180  | 6180  | 6180  |
|   | 5255       | 5960  | 6045  | 6129  | 6155  | 6180  | 6180  | 6180  | 6180  | 6180  | 6180  | 6180  |
| Average HH Size = 2.39                      |            |       |       |       |       |       |       |       |       |       |       |       |
| City of Red Lick                            | 1026       | 1043  | 1058  | 1072  | 1077  | 1081  | 1081  | 1081  | 1081  | 1081  | 1081  | 1081  |
|   |            | 1221  | 1328  | 1435  | 1542  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  |
|   | 1115       | 1221  | 1328  | 1435  | 1542  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  |
|   | 1115       | 1221  | 1328  | 1435  | 1542  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  | 1600  |
| Average HH Size = 2.82                      |            |       |       |       |       |       |       |       |       |       |       |       |
| City of Redwater*                           | 1075       | 1093  | 1109  | 1124  | 1129  | 1134  | 1134  | 1134  | 1134  | 1134  | 1134  | 1134  |
|   |            | 3116  | 3160  | 3204  | 3219  | 3233  | 3233  | 3233  | 3233  | 3233  | 3233  | 3233  |
|   | 3432       | 3749  | 3989  | 4229  | 4469  | 4709  | 4949  | 5189  | 5429  | 5429  | 5429  | 5429  |
|   | 3432       | 3749  | 3989  | 4229  | 4469  | 4709  | 4949  | 5189  | 5429  | 5429  | 5429  | 5429  |
| Average HH Size = 2.64                      |            |       |       |       |       |       |       |       |       |       |       |       |
| City of Texarkana (TX) - Wholesale Provider | 37029      | 37646 | 38179 | 38712 | 38879 | 39046 | 39046 | 39046 | 39046 | 39046 | 39046 | 39046 |
|   |            | 37790 | 38325 | 38860 | 39028 | 39196 | 39196 | 39196 | 39196 | 39196 | 39196 | 39196 |
|   | 37201      | 38007 | 38832 | 39674 | 40534 | 41413 | 42311 | 43229 | 44166 | 45124 | 46102 | 47102 |
|   | 37201      | 38007 | 38832 | 39674 | 40534 | 41413 | 42311 | 43229 | 44166 | 45124 | 46102 | 47102 |
| Average HH Size = 2.42                      |            |       |       |       |       |       |       |       |       |       |       |       |
| City of Texarkana (AR) - Wholesale Provider | 30355      | 30798 | 31247 | 31703 | 32165 | 32634 | 33110 | 33593 | 34083 | 34580 | 35085 | 35596 |
|   |            | 30798 | 31247 | 31703 | 32165 | 32634 | 33110 | 33593 | 34083 | 34580 | 35085 | 35596 |
|   | 5721       | 5949  | 6029  | 6109  | 6135  | 6160  | 6180  | 6180  | 6160  | 6160  | 6160  | 6160  |
|   | 5721       | 5949  | 6029  | 6109  | 6135  | 6160  | 6180  | 6180  | 6160  | 6160  | 6160  | 6160  |
| Average HH Size = 2.51                      |            |       |       |       |       |       |       |       |       |       |       |       |
| City of Wake Village*                       | 5800       | 6150  | 6500  | 6850  | 7200  | 7550  | 7900  | 8250  | 8600  | 8950  | 8950  | 8950  |
|   |            | 6025  | 6106  | 6187  | 6213  | 6239  | 6239  | 6239  | 6239  | 6239  | 6239  | 6239  |
|   | 5800       | 6150  | 6500  | 6850  | 7200  | 7550  | 7900  | 8250  | 8600  | 8950  | 8950  | 8950  |
|   | 5800       | 6150  | 6500  | 6850  | 7200  | 7550  | 7900  | 8250  | 8600  | 8950  | 8950  | 8950  |
| Average HH Size = 2.51                      |            |       |       |       |       |       |       |       |       |       |       |       |
| TexAmericas Center (Riverbend)**            |            | 533   | 541   | 548   | 551   | 553   | 553   | 553   | 553   | 553   | 553   | 553   |
|   |            | 542   | 550   | 558   | 561   | 563   | 563   | 563   | 563   | 563   | 563   | 563   |
|   |            | 533   | 541   | 548   | 551   | 553   | 553   | 553   | 553   | 553   | 553   | 553   |
|   |            | 542   | 550   | 558   | 561   | 563   | 563   | 563   | 563   | 563   | 563   | 563   |

\* Wholesale customers of Texarkana Water Utility (TWU)  
 \*\* Projections for City of Atlanta include Queen City, and projections for City of Hooks include Burns Redbank WSC for planning purposes.