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**ABRIDGED APPLICATION FOR:  
TEXAS WATER DEVELOPMENT BOARD  
SWIFT PROGRAM**

**CITY OF BRYAN**  
***AQUIFER STORAGE & RECOVERY (ASR) PROJECT***

**FEBRUARY 5, 2016**

**Prepared by:  
Susan Roth Consulting, LLC**



# Abridged Application

Due February 5, 2016 by 5:00pm

SWIFT@twdb.texas.gov

By submitting this abridged application, you understand and confirm that the information provided is true and correct to the best of your knowledge and further understand that the failure to submit a complete abridged application by the stated deadlines, or to respond in a timely manner to additional requests for information, may result in the withdrawal of the abridged application without review.

## GENERAL INFORMATION

Name of Entity	County	Regional Water Planning Area
City of Bryan	Brazos	Region G

## Entity Contact Information

Contact Person	Name	Jayson Barfknecht, Ph.D., P.E.		
	Title	Public Works Director		
Mailing Address	City of Bryan			
	300 South Texas Avenue			
	Bryan, Texas 77803			
Phone Number	(979) 209-5929	Fax Number	(979) 209-5035	
Email Address	jbarfknecht@bryantx.gov			

## PROJECT DESCRIPTION

Name of Project <i>(As it appears in the 2016 regional water plan)</i>	Bryan ASR (Carrizo-Wilcox)			
Where can the project be found in the most recent Regional Water Plan?	Project described on page:	10.1-1 thru 10.1-12	Capital costs listed on page:	10.1-11 (Table 10.1-4)

*Please attach a list of all water systems served by the proposed project.*

Phase(s) Applied For	X Planning	Acquisition	X Design	X Construction
Population Served When Fully Operational	103,700 (Year 2018)			

## Description of Proposed Project

The City of Bryan (Bryan) currently has 12 water supply wells in the Simsboro and Sparta Aquifers with a combined permitted supply of 33,540 ac-ft/yr; eleven of these wells are permitted under historical use with an annual permitted production amount of 28,702 ac-ft/yr. The City also provides wholesale water service to Wickson Creek Special Utility District and Wellborn Special Utility District (reference CCN map and complete list of entities/regional project worksheet in attachments). An ASR conjunctive use strategy was developed that includes ASR and new production wells. A spreadsheet model was developed that simulates the storage and use of ASR water to determine when ASR wells and additional productions wells are needed in order to meet demands until 2070.

The ASR aspect of this conjunctive use strategy would fully utilize the MAG by pumping at the allowable rate year round. During times when water demand is less than the amount of water being produced from the production wells, the excess water would be directed from the City's Well Field Pump Station to a new ASR well field for aquifer storage. This water would be recovered from the ASR wells when Bryan's demand exceeds the allowable use from the MAG. The recovered water would be delivered back to the Well Field pump station for cooling and disinfection and then into the distribution system.



# Abridged Application

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This conjunctive use strategy requires four new ASR wells and four recovery wells; however, the first phase of this project would involve constructing one ASR well and one recovery well. In addition to the wells required for this strategy, two-way pipelines between the ASR well field and the Well Field Pump Station, an ASR pump station at Well Field Pump Station, and an interconnect into the storage tanks are needed. For purposes of this strategy, the target aquifer for storing the water is the brackish water zone of the Simsboro unit of the Wilcox Group.

To meet the predicted ASR injection and ASR use needs, Bryan needs to begin storing ASR water using Well #10 and one new ASR well before 2020. Additionally, piloting of Well #10 as an ASR well needs to begin as soon as possible. The water stored in an ASR system is not subject to the evaporative losses encountered in surface storage reservoirs (water conservation measure) and remains available for future use; ASR systems have a small footprint relative to surface-water reservoirs and create a new and reliable water supply to meet demand during future water shortages.

<b>Emergency</b> <i>(select all that apply)</i>	<input type="checkbox"/> Applicant/entity's water supply will last less than 180 days. <input checked="" type="checkbox"/> Water supply need occurs earlier than anticipated in the State Water Plan. <input type="checkbox"/> Applicant has received or applied for Federal emergency funding. <input type="checkbox"/> None of the above.
--	--

<b>Agricultural Efficiency Project?</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Efficiency improvement achieved by implementing the project <i>(Please provide an attachment showing the basis for your calculation.)</i>
	<input type="checkbox"/> <1% <input type="checkbox"/> 10%-13.9% <input type="checkbox"/> 1%-1.9% <input type="checkbox"/> 14%-17.9% <input type="checkbox"/> 2%-5.9% <input type="checkbox"/> ≥18% <input type="checkbox"/> 6%-9.9%	

**Household Cost Factor**  
*(Household Cost Factor for SWIFT prioritization is calculated by dividing the service area's average residential water bill by its annual median household income. For regional projects, these should represent the combined service areas of all participating entities.)*

<b>Estimated average annual residential water bill:</b>	\$582.44	<b>Annual Median Household Income:</b>	\$44,357.17
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<b>The proposed project addresses:</b>	<input checked="" type="checkbox"/> Conservation <input type="checkbox"/> Water Loss <input type="checkbox"/> N/A	<b>Annual Volume of Water Produced/Conserved by the Project</b> <i>(in acre-feet per year)</i>	4,960 ac-ft/yr
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<b>Readiness to Proceed</b> <i>(select all that apply)</i>	<input checked="" type="checkbox"/> Preliminary planning or design work (30% of total project) <u>has been completed</u> or is not required. <input checked="" type="checkbox"/> Applicant is prepared to begin implementation or construction within 18 months of application deadline. <input checked="" type="checkbox"/> Applicant has acquired all water rights associated with the proposed project, or none will be required.
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**ESTIMATED COSTS**

<b>Estimated Project Costs</b>	Low-interest Loan	\$ 18,000,000.00
	Deferred Loan	\$ 0.00
	Board Participation	\$ 0.00
	Local Contribution	\$ 0.00
	Other:	\$ 0.00
	<b>Total Estimated Project Costs</b>	<b>\$ 18,000,000.00</b>

<b>Anticipated Commitments</b> <i>Attach proposed schedule for multi-year commitments</i>	<input type="checkbox"/> One-Time Commitment <input checked="" type="checkbox"/> Multi-Year Commitments
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**ATTACHMENTS – CITY OF BRYAN  
ABRIDGED SWIFT APPLICATION**

Texas Water Development Board

# State Water Implementation Fund for Texas (SWIFT)

## Abridged Application Regional Project Worksheet

**Applicant: City of Bryan**

**Project Name:**

**Bryan ASR (Carrizo-Wilcox) Project**

**Instructions:** List all entities (aside from the applicant) that will be served by the proposed project. Use the "Rural" column to indicate the entities serving populations of 10,000 or fewer.

Press "Tab" to add new rows as needed.

<b>Entity Name</b>	<b>Rural</b>
1. City of Bryan	
2. Wickson Creek SUD (wholesale customer of City of Bryan; member entities listed below)	X
3. Wheelock Community (unincorporated)	X
4. Edge Community (unincorporated)	X
5. Tabor Community (unincorporated)	X
6. Wixon Valley (unincorporated)	X
7. Town of Kurten	X
8. Keith Community (unincorporated)	X
9. Iola Community (unincorporated)	X
10. Carlos Community (unincorporated)	X
11. City of Bedias	X
12. Singleton Community (unincorporated)	X
13. Roans Prairie Community (unincorporated)	X
14. Wellborn SUD (wholesale customer of City of Bryan; member entities listed below)	X
15. City of Navasota	X
16. Town of Millican	X
17. Wellborn Community (unincorporated)	X
18. City of Hearne	X
19. Smetana Community (unincorporated)	X
20. Benchley Community (unincorporated)	X
21. Mumford Community (unincorporated)	X
22. Peach Creek Community (unincorporated)	X
23. Cawthon Community (unincorporated)	X
24. Blackjack Community (unincorporated)	X

**City of Bryan Abridged SWIFT Application  
Supporting Data**

<b>Entity</b>	<b>2015 Population</b>	<b>2018 Population*</b>	<b>2020 Population</b>	<b>Annual Median Household Income (2014 ACS 5-yr est.)</b>	<b>Avg. Annual Residential Water Bill**</b>
City of Bryan	82318	85376	88434	\$ 39,231.00	\$ 430.92
Wickson Creek SUD <sup>+</sup>	8878	9315	9752		\$ 690.00
-- Town of Kurten				\$ 51,250.00	
-- City of Bédias				\$ 45,833.00	
Wellborn SUD <sup>+</sup>	8708	9009	9309		\$ 626.40
-- City of Navasota				\$ 43,198.00	
-- Town of Millican				\$ 60,179.00	
-- City of Hearne				\$ 26,452.00	
<b>TOTAL</b>		<b>103700</b>		<b>\$ 44,357.17</b>	<b>\$ 582.44</b>






\* Population data based on 2016 TWDB Region G Water Plan

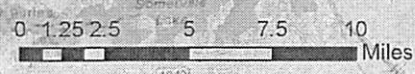
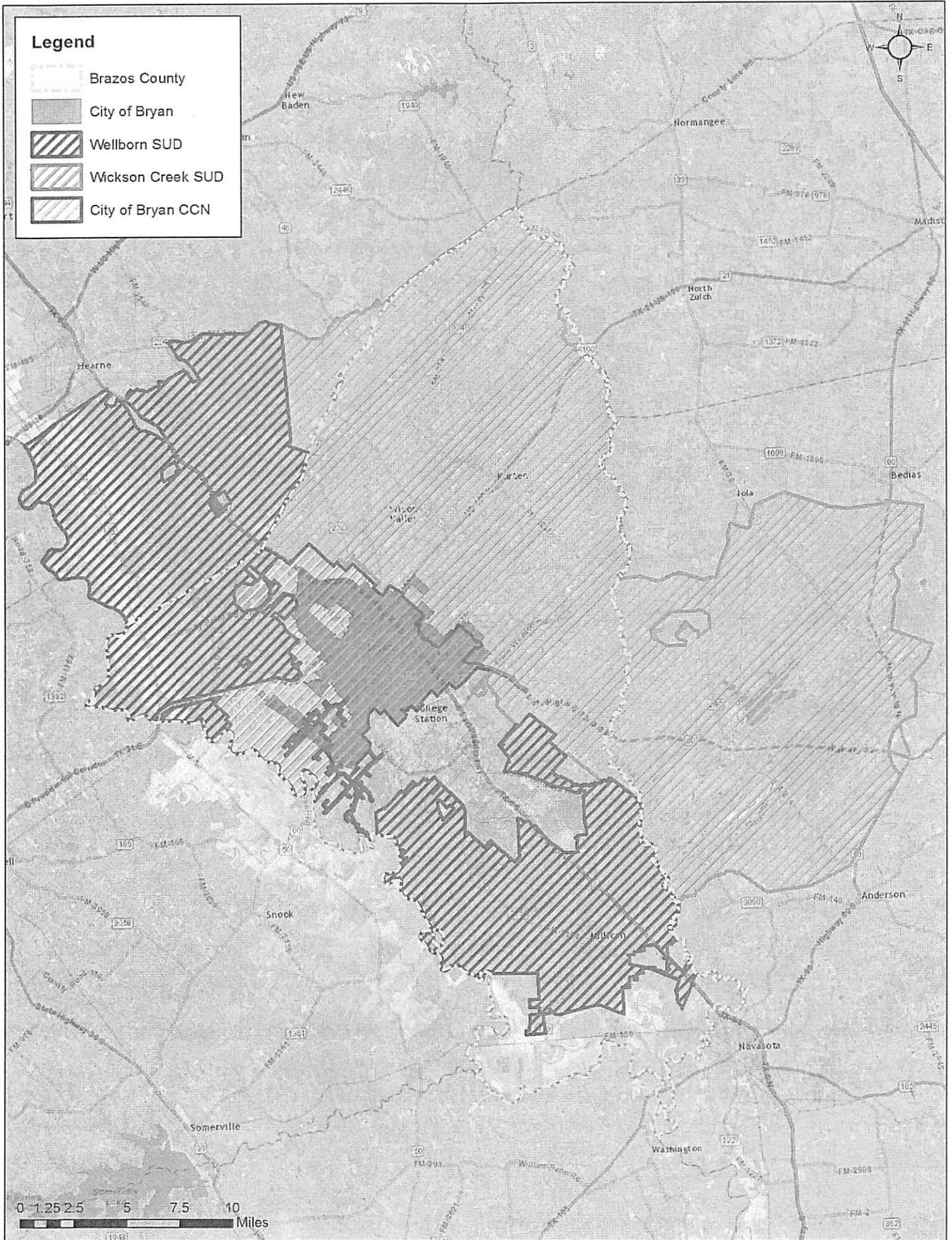
\*\* Average annual residential water bill based on 10,000 gallons per month usage

+ Additional member entities provided on SWIFT Regional Project Worksheet for each SUD; entities with ACS data available are listed in table



**Legend**

-  Brazos County
-  City of Bryan
-  Wellborn SUD
-  Wickson Creek SUD
-  City of Bryan CCN



**RESOLUTION NO. 3556**

**A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF BRYAN, TEXAS, REPEALING AND REPLACING RESOLUTION NO. 3481; ESTABLISHING THE RATES FOR RESIDENTIAL AND COMMERCIAL WATER AND WASTEWATER SERVICES TO BECOME EFFECTIVE WITH THE FIRST BILLING CYCLE ON OR AFTER OCTOBER 1, 2014 OR WHEN THE CAPABILITY TO BILL THE INCLINING BLOCKS IS AVAILABLE, WHICHEVER IS LATER.**

**BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF BRYAN, TEXAS THAT:**

1) The charge for water services furnished by the city of Bryan, Texas, to a customer shall be as follows:

**A. RESIDENTIAL**

Customer Charge:	\$ 8.31 per month
<i>Usage (gallons):</i>	<i>Volume Charge (per 1000 gallons):</i>
0 – 30,000	\$ 2.76
30,001 – 50,000	\$ 3.00
> 50,000	\$ 3.50

**B. COMMERICAL/INDUSTRIAL; BRYAN PUBLIC SHOOOLS; CITY ACCOUNTS AND UTILITY OPERATIONS**

Volume Charge	\$ 2.38 per 1,000 gallons
Customer Charge:	

Meter Size	Charge per Month
5/8-inch	\$ 13.74
1-inch	\$ 13.74
1.5-inch	\$ 16.20
2-inch	\$ 21.60
3-inch	\$ 53.40
4-inch	\$ 76.00
6-inch	\$ 91.00
8-inch	\$ 100.00
10-inch	\$ 110.00
12-inch	\$ 130.00

**C. SPECIAL CONTRACTS**

Customer Charge:	\$ 13.74 per month
Volume Charge:	\$ 4.05 per 1,000 gallons

**D. BULK SALES (TRANSPORT LOADS)**

\$5.54 per 500 gallons



2) That the charge for wastewater services furnished by the City of Bryan, Texas, to a customer shall be as follows:

A. RESIDENTIAL

There shall be a wastewater fee of \$7.88 per month plus \$4.03 per 1,000 gallons of wastewater volume, for each wastewater customer. This volume rate is based on median water consumption during the months of December through February. The wastewater fee for the following months of March through February is held constant using the second highest month's consumption of the December through February period.

In the case of a customer moving into a residence during the months of March through February, for which a wastewater charge has previously been established, the new customer shall pay the previously determined wastewater charge for that residence until the next evaluation period. The Utility Customer Services Division Manager and the Water Services Division Manager working together may adjust this fee in appropriate situations. In the event no previous rate has been established because the customer is moving into a newly constructed residence, the wastewater rate charged shall be \$33.00 per month based on the City average of 6,230 gallons per month, until the new re-rating as described in "A" above.

B. COMMERCIAL/INDUSTRIAL

There shall be a wastewater charge of \$7.88 per month plus \$3.80 per 1,000 gallons of wastewater volume based on monthly water consumption for each commercial/industrial wastewater customer.

C. HAULED WASTE PUMPINGS

Grease	\$0.17/gallon
Grit	\$0.21/gallon
Septage	\$0.08/gallon

There shall be a convenience fee of \$500 per load applied to each load received on weekends and on observed holidays. Convenience fees will be charged in addition to the hauled waste fee. This fee will not be charged for community-wide special events reviewed and approved by the department.

D. NEW RESIDENTIAL CONSTRUCTION

There will be a wastewater charge of \$7.88 per month on all new residential constructed homes. The builder will not be assessed a wastewater charge based on water consumption, until a certificate of occupancy has been issued. At that time the wastewater rate charged shall be \$33.00 per month based on the City average of 6,230 gallons per month, until the new re-rating as described in "A" above.

E. VACANT RENTAL DWELLINGS

Customers who initiate a Continuous Service Agreement (CSA) with Bryan Texas Utilities (BTU) to accommodate vacant rental property will be charged a one-time fee of \$15.00 per each CSA application. The CSA allows for water to be charged as used and

for the wastewater fee to be calculated based on the water usage and at the commercial wastewater rate.

Once rented, previously established residential wastewater rates are applied to the new tenant's account. If the property was vacant, or the account was in the property owner's name during the residential wastewater rate setting period of December, January, and February, wastewater will be charged at the rate of \$33.00 per month based on the City average of 6,230 gallons per month until the next evaluation period as described in "A" above.

F. STATE REGISTERED WASTE HAULERS

State registered waste haulers for Wastewater Treatment Plant Sludge, Water Treatment Plant Sludge, Septic Tank Waste, Chemical Toilet Waste, Grit Trap Waste, and Grease Trap Waste shall apply for a permit to operate within the City. The fee for each permit is \$200.00. Permits are valid for a period of two years. Haulers are required to obtain a permit for each vehicle that will be operating within the City.

G. CONTRACTS

Individual contracts may be negotiated outlining details of the service to be supplied, the term of the contract, and the obligation of each party. A fee may be charged to manage the contract. The contract may be used both inside and outside the City.

3) The following schedule of fees shall be charged for installation of each water tap or sanitary sewer tap:

A. SANITARY SEWER TAP FEES

Four inch (4")	\$ 350.00
----------------	-----------

All wastewater taps larger than 4" will be made by a contractor and will require a \$100.00 inspection fee. The tap fee includes making the connection to the main plus 10 feet of pipe. Any connections requiring more than 10 feet of pipe are considered long side taps. All long side taps require an additional charge of \$15.00/ft. The length of a long side tap will be determined as the distance from the main to the property line minus 10 feet.

B. POTATBLE WATER TAP AND METER FEES

Three quarter inch (3/4")	\$ 400.00
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One inch (1")	\$ 500.00
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One and one half inch (1 1/2")	\$ 800.00
--------------------------------	-----------

Two inch (2")	\$ 1800.00
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All water taps larger than 2" will be made by a contractor using a meter purchased from the City. The tap fee shall consist of the meter cost and a \$100.00 inspection fee. The tap fee includes making the connection to the main plus 10 feet of pipe. Any connections

requiring more than 10 feet of pipe are considered long side taps. All long side taps require an additional charge of \$15.00/ft. The length of a long side tap will be determined as the distance from the main to the property line minus 10 feet.

C. TEMPORARY SERVICES

Customers requesting temporary construction water service (through an existing fire hydrant) shall be required to enter into a Special Contract with the City. A cash security deposit for \$1,000.00 will be required from the customer for each temporary service requested. Each deposit shall be refunded upon disconnection of the temporary service, provided the customer has paid all rates and fees due the City through the use of the service, and provided there has been no damage to the meter, the backflow prevention device, the valve installed for the customer's use or the fire hydrant. The fee for the meter itself is \$400.00. For this price the service includes installing the meter, backflow prevention device, 2" ball valve for customer use, testing the backflow prevention device, moving the meter to an alternate location within the job site, and retesting the backflow prevention device after reinstallation. Meters are the property of the City and shall be returned to the City when the specific job is completed. Each job site requires a separate Special Contract. The \$1,000.00 security deposit may remain on file with the City; however, each job site requires a separate \$400.00 fee.

D. ABANDONMENT OF TAPS

Customers requesting existing water and or sewer taps to be relocated due to driveway location, change in service location on the private side, or any other reason not requested by the City, shall pay the actual cost of the relocation. This includes the cost of a new tap, as described above in paragraphs 3.A and 3.B, and the actual cost to abandon the existing tap including any surface restoration (concrete, landscaping, etc.), labor, equipment, and materials for city staff. These charges shall be determined on an individual basis.

4) The following establishes fees and services associated with metering:

A. TAMPERING

Tampering with a water meter will result in the meter being removed and a \$100.00 charge to the account. Tampering includes but is not limited to altering and or adjusting the reading on the meter, turning the meter on after it has been turned off by an authorized City representative, installing piping or hose to bypass the meter, or installing piping and or hose to allow water service after a meter has been removed by authorized personnel. Once a meter has been removed for tampering, a \$25.00 reinstallation fee will be required prior to a meter being reinstalled.

B. TURN ON/OFF SERVICE

Routine turn on/off service for vacations, home repairs and the like will be charged at the rate of \$10.00 per visit.

C. METER TESTING

Customers may request to have the accuracy of their water meter verified. For 2" or smaller meters, this request typically requires replacing the meter so performance can be measured against a known standard. Due to their size, 3" and larger meters are tested in place; a calibrated test meter simultaneously records water flow/volume in series with the customer meter. Should the test determine the meter is either slow or within American Water Works Association (AWWA) specifications, the customer will be assessed a fee of \$35 on their next utility bill. If the test results indicate the meter is fast, the testing fee will be waived and a credit may be issued for a proportional amount of water billed above the acceptable meter performance limits.

D. DAMAGED METERING COMPONENTS

Infrastructure put in place for the control, accountability, and protection of the water supply is the sole property of the City of Bryan. This equipment is to be operated and maintained by city staff. Damage to this equipment as the result of direct or indirect action by the customer or an agent acting on their behalf is the responsibility of the customer. Charges will be determined on a case by case basis.

- 5) The following establishes fees and services associated with fees associated with registration and testing of backflow prevention assemblies:

A. REGISTRATION FEES

A registration fee of \$25 per assembly shall be charged for each backflow prevention assembly installed at a property. This fee will be accessed on an annual basis. Backflow prevention assemblies installed for lawn irrigation and assemblies installed at State-accredited schools will be exempt from this fee.

B. PERMIT FEES

A permit fee of \$50 per applicant will be charged for each permittee providing testing of backflow prevention assemblies and fire line assemblies. This fee will be accessed annually.


- 6) Individual contracts may be negotiated outlining details of the service to be supplied, the term of the contract, and the obligation of each party.
- 7) All residential and commercial water and wastewater usage rates described herein shall be multiplied by 1.50 for any customers receiving service outside the city limits of the City of Bryan, unless covered under an agreement with another service providing entity such as the City of College Station.
- 8) The city shall reimburse for up to twenty four (24) months of any overcharges. Customers may be liable for up to six (6) months of undercharges.
- 9) This resolution shall be effective immediately upon its adoption and the rates shall go into effect the first billing cycle on or after October 1, 2014 or when the billing system is able to process the residential inclining block rate structure, whichever is later.

**PASSED AND APPROVED** this 24<sup>th</sup> day of June, 2014.

**ATTEST:**

  
Mary Lynne Stratta, City Secretary

**CITY OF BRYAN:**

  
Jason P. Bienski, Mayor

**APPROVED AS TO FORM:**

  
Janis K. Hampton, City Attorney

1-800-835-8888

# Wickson Creek Special Utility District

Committed to Providing Quality on Tap Water & Service to Our Customers

Contact Us  
 Wickson Creek  
 Special Utility District  
 P.O. Box 4756  
 Bryan, TX 77805  
 Main: (979) 589-3030 or  
 (866) 589-3030  
[View Map](#)

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## Rates & Policies

Listed below, you will find our current rates and policies. If you do not find the information you need, please contact our office and we will provide it for you.

### Standard Residential Service Rates

Monthly Minimum:	\$ 25.00
Gallonage Charge Per 1,000 Gallons	January - April & October - December
<b>Tier (gal.):</b>	<b>\$/1,000 gal.:</b>
0-15,000 gal.	\$3.25
15,001-30,000 gal.	\$ 3.50
>30,001 gal.	\$ 4.50
***Summer Rate Schedule May - September***	***Summer Rate Schedule May - September***
0 - 15,000 gal.	\$3.25
15,001 - 30,000 gal.	\$3.50
30,001 - 50,000 gal.	\$6.00
50,001 and over	\$10.00

- Wickson Creek SUD's water meters are read each month.
- Summer Rate Schedule is in Affect for May - Sept
- Please Note there will be a \$5.00 penalty if payment is not paid by the due date
- Deposit Refund is Applied to Final Bill, and you are mailed the difference
- Delinquent accounts are subject to disconnect at anytime. **A \$50.00 reconnect fee is assessed to restore water service during normal business hours.**
- Please contact our office for any additional information.

### Average Billing Examples

2,000	\$29.40
5,000	\$39.20
10,000	\$55.53
25,000	\$107.03

## BILL PAYMENT

- [Drought Contingency](#)
- [Water Quality Report](#)

Local Weather

Today	Saturday	Sunday
Partly Cloudy 61°/40°	Clear 60°/36°	Clear 67°/39°

### ALERTS

#### Wheelock 2014 Water Quality Report

AUGUST 19, 2015

[ccrwater.net/wicksoncreeksud-10014](http://ccrwater.net/wicksoncreeksud-10014)  
[\[more...\]](#)

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- [Texas Water Resources Institute](#)
- [Water Conservation Tips](#)
- [2013 Brazos Co & Grimes Co CCR](#)

Select Language |
▼



# Wellborn Special Utility District

Committed to Providing Clean, Safe Water for All Our Residents

- [Home](#)
- [Customer Service](#)
- [Forms & Reports](#)
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- [FAQ](#)



## Rates & Policies

Listed below, you will find our current rates and policies. If you do not find the information you need, please contact our office and we will provide it for you.




### Standard Residential Service Rates

Monthly Minimum:	\$25.00
Water Included w/ Minimum Bill:	0 - 2000 gallons
<b>Tier (gal.):</b>	<b>\$/1,000 gal.:</b>
2,001-10,000	\$3.40
10,001-20,000	\$3.65
20,001-30,000	\$3.95
30,001-40,000	\$4.90
40,001-50,000	\$5.40
50,001 and over	\$5.90

## BILL PAYMENT

- [Drought Contingency](#)
- [Water Quality Report](#)

### Local Weather

Today	Saturday	Sunday
		
Partly Cloudy 61°/40°	Clear 61°/36°	Clear 67°/39°

## ALERTS

### Water Outage

FEBRUARY 05, 2016

@ 8:30am Wellborn Special Utility District is making an emergency repair on Creekside Drive. &n... [more...]

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B19013

MEDIAN HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2014 INFLATION-ADJUSTED DOLLARS)

Universe: Households

2010-2014 American Community Survey 5-Year Estimates

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Data and Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities and towns and estimates of housing units for states and counties.

	Brazos County, Texas		Bryan city, Texas	
	Estimate	Margin of Error	Estimate	Margin of Error
Median household income in the past 12 months (in 2014 inflation-adjusted dollars)	39,060	+/-948	39,231	+/-1,926

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see Accuracy of the Data). The effect of nonsampling error is not represented in these tables.

While the 2010-2014 American Community Survey (ACS) data generally reflect the February 2013 Office of Management and Budget (OMB) definitions of metropolitan and micropolitan statistical areas; in certain instances the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB definitions due to differences in the effective dates of the geographic entities.

Estimates of urban and rural population, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Source: U.S. Census Bureau, 2010-2014 American Community Survey 5-Year Estimates

Explanation of Symbols:

1. An '\*\*\*' entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.
2. An '-' entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution.
3. An '-' following a median estimate means the median falls in the lowest interval of an open-ended distribution.
4. An '+' following a median estimate means the median falls in the upper interval of an open-ended distribution.
5. An '\*\*\*' entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.
6. An '\*\*\*\*\*' entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.
7. An 'N' entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.
8. An '(X)' means that the estimate is not applicable or not available.



B19013

**MEDIAN HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2014 INFLATION-ADJUSTED DOLLARS)**

Universe: Households

2010-2014 American Community Survey 5-Year Estimates

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	Brazos County, Texas		Bedias city, Texas	
	Estimate	Margin of Error	Estimate	Margin of Error
Median household income in the past 12 months (in 2014 inflation-adjusted dollars)	39,060	+/-948	45,833	+/-26,055

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see Accuracy of the Data). The effect of nonsampling error is not represented in these tables.

While the 2010-2014 American Community Survey (ACS) data generally reflect the February 2013 Office of Management and Budget (OMB) definitions of metropolitan and micropolitan statistical areas; in certain instances the names, codes, and boundaries of the principal cities shown in ACS tables may differ from the OMB definitions due to differences in the effective dates of the geographic entities.

Estimates of urban and rural population, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Source: U.S. Census Bureau, 2010-2014 American Community Survey 5-Year Estimates

Explanation of Symbols:

1. An '\*\*\*' entry in the margin of error column indicates that either no sample observations or too few sample observations were available to compute a standard error and thus the margin of error. A statistical test is not appropriate.
2. An '-' entry in the estimate column indicates that either no sample observations or too few sample observations were available to compute an estimate, or a ratio of medians cannot be calculated because one or both of the median estimates falls in the lowest interval or upper interval of an open-ended distribution.
3. An '-' following a median estimate means the median falls in the lowest interval of an open-ended distribution.
4. An '+' following a median estimate means the median falls in the upper interval of an open-ended distribution.
5. An '\*\*\*\*' entry in the margin of error column indicates that the median falls in the lowest interval or upper interval of an open-ended distribution. A statistical test is not appropriate.
6. An '\*\*\*\*\*' entry in the margin of error column indicates that the estimate is controlled. A statistical test for sampling variability is not appropriate.
7. An 'N' entry in the estimate and margin of error columns indicates that data for this geographic area cannot be displayed because the number of sample cases is too small.
8. An '(X)' means that the estimate is not applicable or not available.



B19013

**MEDIAN HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2014 INFLATION-ADJUSTED DOLLARS)**

Universe: Households  
2010-2014 American Community Survey 5-Year Estimates

Supporting documentation on code lists, subject definitions, data accuracy, and statistical testing can be found on the American Community Survey website in the Data and Documentation section.

Sample size and data quality measures (including coverage rates, allocation rates, and response rates) can be found on the American Community Survey website in the Methodology section.

Although the American Community Survey (ACS) produces population, demographic and housing unit estimates, it is the Census Bureau's Population Estimates Program that produces and disseminates the official estimates of the population for the nation, states, counties, cities and towns and estimates of housing units for states and counties.

	Brazos County, Texas		Hearne city, Texas	
	Estimate	Margin of Error	Estimate	Margin of Error
Median household income in the past 12 months (in 2014 inflation-adjusted dollars)	39,060	+/-948	26,452	+/-12,327

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see Accuracy of the Data). The effect of nonsampling error is not represented in these tables.

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Estimates of urban and rural population, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Source: U.S. Census Bureau, 2010-2014 American Community Survey 5-Year Estimates

Explanation of Symbols:

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B19013

MEDIAN HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2014 INFLATION-ADJUSTED DOLLARS)

Universe: Households  
2010-2014 American Community Survey 5-Year Estimates

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	Brazos County, Texas		Kurten town, Texas	
	Estimate	Margin of Error	Estimate	Margin of Error
Median household income in the past 12 months (in 2014 inflation-adjusted dollars)	39,060	+/-948	51,250	+/-27,351

Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. In addition to sampling variability, the ACS estimates are subject to nonsampling error (for a discussion of nonsampling variability, see Accuracy of the Data). The effect of nonsampling error is not represented in these tables.

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Estimates of urban and rural population, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Source: U.S. Census Bureau, 2010-2014 American Community Survey 5-Year Estimates

Explanation of Symbols:

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B19013

**MEDIAN HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2014 INFLATION-ADJUSTED DOLLARS)**

Universe: Households

2010-2014 American Community Survey 5-Year Estimates

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	Brazos County, Texas		Millican town, Texas	
	Estimate	Margin of Error	Estimate	Margin of Error
Median household income in the past 12 months (in 2014 inflation-adjusted dollars)	39,060	+/-948	60,179	+/-11,409

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Estimates of urban and rural population, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

Source: U.S. Census Bureau, 2010-2014 American Community Survey 5-Year Estimates

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B19013

MEDIAN HOUSEHOLD INCOME IN THE PAST 12 MONTHS (IN 2014 INFLATION-ADJUSTED DOLLARS)

Universe: Households

2010-2014 American Community Survey 5-Year Estimates

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	Brazos County, Texas		Navasota city, Texas	
	Estimate	Margin of Error	Estimate	Margin of Error
Median household income in the past 12 months (in 2014 inflation-adjusted dollars)	39,060	+/-948	43,198	+/-8,132

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Estimates of urban and rural population, housing units, and characteristics reflect boundaries of urban areas defined based on Census 2010 data. As a result, data for urban and rural areas from the ACS do not necessarily reflect the results of ongoing urbanization.

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