

BVGCD Management Plan Objectives  
November, 2019

Goal/Objective	Performance Standard	Status
1a: Permitting of all existing and new non- exempt wells constructed in the District. Encourage registration of exempt wells.	The number of new non-exempt wells permitted in the District.	0 permitted – November, 2019 <b>Total 2019</b> - D/O - 21
	The number of exempt wells registered in the District.	47 registered – November, 2019 (B) – 43, (R) – 4 , (O/G) – 0 <b>Total 2019</b> – 918
1b: Regulation of groundwater production by permitted well through metering.	Number of applications made for permitted use.	0 applications – November, 2019 <b>Total 2019</b> – Agricultural – 8; Industrial – 9; Ag/Comm/Ind – 3; RPWS – 1
	Type of application made for permitted use.	0 applications – November, 2019 <b>Total 2019</b> - Agricultural – 8; Industrial – 9; Ag/Comm/Ind – 3; RPWS – 1
	Number of permits issued by the District.	0 issued – November, 2019 <b>Total 2019</b> – 21
	Type of permit issued by the District.	21 permits issued through November, 2019 <b>Total 2019</b> – Agricultural – 8; Industrial – 9; Ag/Comm/Ind – 3; RPWS – 1
	Amount of groundwater permitted (acre ft.)	0 ac/ft. groundwater permitted November, 2019 Total GW permitted (2019) – 17,965 ac-ft. <b>Total by Aquifer 2019</b> – Carrizo – 90; Simsboro – 17,451; Yegua-Jackson -270; Calvert Bluff – 110; BRAA – 7; Queen City – 157;
	Amount of actual annual production from each metered well as compared to permitted production	Spreadsheet of total actual production for each metered well (by aquifer) compared to permitted amount of production will be included in the 2019 Annual Report
1c: Assessment of available groundwater (by aquifer) using monitoring data collected (water levels/water use/water quality)	Number of wells in well monitoring network.	160 wells
	Major aquifer wells monitored.	99 (Carrizo-Wilcox group)
	Minor aquifer wells monitored.	61 (Queen City/Sparta/Yegua-Jackson/BRA)
	Water quality tests by aquifer.	0 tests Total 2019 – 0
	Progress Report of groundwater availability.	Permitted production vs. actual production provided at each permit hearing.

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2a: Water use fees to encourage conservation oriented use.	Amount of fees generated (Historic/Non-Exempt Operating)	<b>Total to be invoiced (2018 production)</b> - \$589,502.27 <b>Fees collected 2019</b> - \$525,624.74
	Amount of fees generated by Agricultural Use permits	<b>Total invoiced (2018 production)</b> - \$1,959.87 <b>Fees collected 2019</b> - \$1,959.87
	Amount of fees generated by Historic/Non Exempt Industrial Operating Permits	<b>Total invoiced (2018 production)</b> - \$53,409.05 <b>Total invoiced 2019</b> - \$41,596.73
	Amount of fees generated by Historic/Non Exempt Municipal Public Water Supply permits	<b>Total invoiced (2018 production)</b> - \$452,415.55 <b>Total invoiced 2019</b> - \$414,714.25
	Amount of fees generated by Historic/Non Exempt Rural Water Supply Permits	<b>Total invoiced (2018 production)</b> - \$59,542.60 <b>Total invoiced 2019</b> - \$54,580.72
	Amount of fees generated by Steam Electric Generation	<b>Total invoiced (2018 production)</b> - \$1,302.20 <b>Fees collected 2019</b> - \$1,302.20
	Amount of fees generated by transport fees	<b>Total invoiced (2018 production)</b> \$0.00 <b>Fees collected 2019</b> - \$0.00
	Amount of fees generated by BRA fees for 2016	<b>Total invoiced (2018 production)</b> - \$11,470.97 <b>Fees collected 2019</b> - \$11,470.97
2b: Review District Rules to decrease amount of waste.	Annual review of rules for possible amendments addressing reduction of waste.	Rules Committee met June 24, 2019. Board discussed/acted on recommendations July 11, 2019. Rules hearing held September 12, 2019 adopting all suggested rule changes (well spacing, etc.)
2c: Provide information to public and schools on eliminating wasteful practices.	Website page dedicated to wise use of water.	District website contains a conservation page dedicated to the wise use of water. BVWaterSmart website, sponsored by BVGCD, contains many videos promoting conservation as well as lawn watering recommendations.
	Provide water curriculum to local schools and in-school presentations encouraging wise use of water and the significance of aquifers.	Presented BRA water level comparison maps to 90 producers @ Tri-County Crops Committee Winter Meeting 1-15-19; Manned booth @ BCS Home & Garden Show distributing conservation materials Feb 9-10; <b>See attached for school listings.</b>
3a: Encourage use of surface water supplies to meet needs of user groups in the District	Attend Regional Water Planning Group Meeting (minimum of 1 meeting/year).	Attended BGRWPG meeting 5-22-19; 11-20-19
4a: Determine if natural spring flows may be impacted by increased groundwater pumping.	Springs found in District.	No springs identified at this time.

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	Monitoring wells established when spring flows found.	N/A at this time
5a: Palmer Drought Severity Index (PDSI) will be provided to Board members monthly.	Monthly assessment of drought conditions impacting Drought Contingency Plan.	Current 2019 PDSI/Crop Moisture Index/State Drought Monitor/U.S. Seasonal Drought Outlook attached. Website drought maps updated weekly.
	Plan triggers.	See District Drought Contingency Plan adopted November 8, 2012.
5b: 100% of permittees required by the State of Texas to submit Drought Contingency Plans will submit such plans when applying for a permit for well production.	Review 100% of DCP's when a severe drought condition is reached as per PDSI.	All permits requiring State of Texas Drought Contingency Plans are reviewed at time of application
	Date severe drought condition reached.	N/A
	Number of DCP's to be reviewed.	0 reviewed
5c: Develop a District Drought Contingency Plan (adopted 11-8-12).	Review for effectiveness and updates annually.	Reviewed, revised and adopted November 8, 2012. Reviewed & re-adopted without revision July 11, 2019; DDCP reviewed – 2
6a: 100% of water permit applicants will submit a water conservation plan or agree to comply with the District Water Conservation Plan.	Number of permits for production received requiring water conservation plans.	0 permits received – November, 2019 <b>Total for 2019</b> – 21 permits received
	Number of water conservation plans submitted.	0 submitted – November, 2019 <b>Total for 2019</b> – 1 submitted
	Number of water conservation plans reviewed.	0 reviewed – November, 2019 <b>Total for 2019</b> – 1 reviewed
	Number of permittees agreeing to abide by District's water conservation plan.	0 abiding by DWCP – November, 2019 <b>Total for 2019</b> – 20 abiding by DWCP
6b: Develop a system for measurement and evaluation of groundwater supplies.	Minimum of 2 wells/aquifer.	Outlined by aquifer below. 160 monitor wells
	Brazos River Alluvium	Number of Monitoring Wells/Number 23 wells/ 54 readings
	Calvert Bluff	Number of Monitoring Wells/Number 17 wells/ 39 readings

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	Carrizo	Number of Monitoring Wells/Number	8 wells/ 14 readings
	Hooper	Number of Monitoring Wells/Number	17 wells/ 28 readings
	Queen City	Number of Monitoring Wells/Number	5 wells/ 11 readings
	Simsboro	Number of Monitoring Wells/Number	58 wells/ 82 readings
	Sparta	Number of Monitoring Wells/Number	24 wells/ 51 readings
	Yegua-Jackson	Number of Monitoring Wells/Number	9 wells/ 17 readings
		Total number of well year-to-date monitor readings	304 combined readings for all aquifers January 1 through November 14, 2019
6c: Assist in obtaining grant funds for the implementation of water conservation methods.	Number of meetings held with State Agencies		Email exchange 12-4-19 with Cameron Turner (TWDB) relating to State Ag Grant Funds in 2020 and remote control technology
	Number of meetings held with Federal Agencies		Met w/ Robertson County NRCS concerning remote access control technology/soil moisture probe cost share program 9-25-19; Follow up email two weeks later
	Number of meetings of the Grants subcommittee		Met w/ Grants Committee 9-19-19 to review/reauthorize current grants and review 2020 grant proposals
	Number of grant applications received		2 – Texas A&M AgiLife (Dr. Ron Kaiser) for smart controllers for BVWaterSmart enhancement (\$9,000 granted 7-11-19); Remote Control Access Technology for Groundwater Well Pivots grant proposal (\$11,000 – 2020)
	Number of water conservation grants approved by Board of Directors		2 – The City of College Station and Wickson Creek SUD were granted funds (\$42,500) by the BVGCD to maintain

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		ET weather stations, remote rain gauges and a website to inform public on lawn irrigation recommendations (2019). Board approved an additional \$9,000 in grant funds for BVWaterSmart pilot project on/off technology.
7a: Develop baseline water quality data and a system for continued evaluation of groundwater quality.	Water quality tests conducted	Long term water quality reports taken by the TWDB compiled by WSP USA. Will be summarized for Board use. BVGCD water quality information made available from TWDB will be incorporated into the inactive ArcGIS web portal.
7b: Require all water permittees that are subject to well vulnerability studies prior to constructing a well to provide evidence of the study to the District prior to construction.	Number of wells requiring well vulnerability studies.	0
	Number of well vulnerability studies received.	0
	Well plugging efforts*	7 well plugging grant contracts in 2019
	Number of water Permittees provided with wellhead protection information. Conduct in-school presentation addressing aquifer contamination and protection.	All well owners (exempt and non-exempt) that have drilled, permitted, or registered a well on or after January 1, 2014 were sent 2 information sheets detailing new owner responsibilities and well head protection information. All subsequent new well or newly registered well owners are provided the same well head protection. <b>See attached school listings.</b>
8a: Evaluate water level monitoring data and determine if change conforms to adopted DFCs for each aquifer.	Once every 3 years (for each aquifer): <ul style="list-style-type: none"> <li>• Report water level data obtained</li> <li>• Average artesian head change</li> <li>• Comparison of changes to DFCs</li> <li>• Progress on conforming to DFCs</li> </ul>	John Seifert reported on progress toward conforming to the DFCs on 5-9-19. Directors informed all monitoring well data now available via the website (hydrographs included. Went live in early October, 2019.
	Once annually (for each aquifer): <ul style="list-style-type: none"> <li>• Report total permitted GW production</li> <li>• Report total estimated annual GW production</li> <li>• Compare this data to the MAG</li> </ul>	Presented to the Board at each Board meeting in a spreadsheet format. 1-10-19, 2-14-19, 3-14-19, 4-17-19; 5-9-19; 6-6-19; 7-11-19; 8-8-19; 9-12-19; 10-10-19; 11-14-19; 12-5-19

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Taught aquifer science/water conservation/aquifer protection/watersheds to:

- 380 - 5th grade Pecan Trail Intermediate 1-7 to 1-9-19;
- 610 - 5th grade Sam Rayburn 1-11 to 1-18-19;
- 330 - 5th grade Cypress Grove Intermediate 1-14 to 1-16-19;
- 38 - 4th grade Bremond Elementary 1-22-19;
- 120 - 4th grade Creek View Elem. 1-23-19;
- 154 - 4th grade College Hills Elem. 1-30-19;
- 650 - 5th grade Jane Long 1-30 to 2-5-19;
- 100 - 4th grade Southwood Valley Elem. 2-7-19;
- 140 - 4th grade Green's Prairie 2-12-19;
- 150 - 4th grade Spring Creek Elem. 2-13 & 2-15-19;
- 80 - 4th grade Pebble Creek Elem. 2-19-19
- 51 - 5th grade Hearne Elem. 2-20-19
- 125 - 4th grade South Knoll Elem. 2-21 & 2-22-19
- 130 - 4th grade Leadership of Texas Charter School Elem. 3-1-19
- 120 - 4th grade Rock Prairie Elem. 3-5 & 3-6-19
- 30 - 4th & 5th grade Calvert Elem. 3-8-19
- 89 - 4th & 5th grade Mumford Elem. 3-18-19
- 460 - 7th grade Davila Middle School 3-22, 3-26, 3-28, 3-29-19
- 90 - 7th grade Franklin Middle School 4-1 & 4-2-19
- 460 - 7th grade Stephen F. Austin Middle School 4-5, 4-5, 4-11, 4-12, 4-15, 4-16-19
- 18 - 4th grade St. Joseph's Elem. 4-8-19
- 400 - 7th grade A&M Consolidated Middle School 4-15 to 4-18, 4-23, 4-24-19
- 115 - 5th grade Franklin Middle School 4-22-19
- 350 - 7th grade Wellborn Middle School 4-23 to 4-26-19
- 350 - 7th grade AMCMS 4-29 to 5-2-19
- 40 - 7th grade Mumford Middle School 5-6 to 5-7-19
- 40 - 7th grade Bremond Middle School 5-8 & 5-10-19

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- 405 - 5<sup>th</sup> grade Oakwood Intermediate School Water Field Day 9-25-19
- 128 - 7<sup>th</sup> grade SFA Middle School 9-26 & 9-27-19
- 60 - 7<sup>th</sup> grade Hearne Middle School 10-15 & 10-16-19
- 45 - 4<sup>th</sup> grade Hearne Elementary School 10-17-19
- 250 - 5<sup>th</sup> grade @ Robertson County Water Field Day 10-22-19
- 55 - 4<sup>th</sup> grade Crockett Elementary 11-1-19
- 95 - 4<sup>th</sup> grade Sul Ross Elementary 11-5-19
- 100 - 4<sup>th</sup> grade Jones Elementary 11-7 & 11-11-19
- 80 - 4<sup>th</sup> grade Johnson Elementary 11-8-19
- 80 - 4<sup>th</sup> grade Neal Elementary 11-13-19
- 101 - 4<sup>th</sup> grade Creek View Elementary 11-18-19
- 70 - 4<sup>th</sup> grade Navarro Elementary 11-21-19
- 67 - 4<sup>th</sup> grade Fannin Elementary 11-22-19
- 85 - 4<sup>th</sup> grade Branch Elementary 12-2-19
- 120 - 4<sup>th</sup> grade Henderson Elementary 12-3-19
- 4<sup>th</sup> grade Bowen Elementary 12-6-19
- 4<sup>th</sup> grade Forest Ridge Elementary 12-10-19
- 4<sup>th</sup> grade Mitchell Elementary 12-11-19
- 5<sup>th</sup> grade Bremond Elementary 12-12-19
- 4<sup>th</sup> grade Kemp Elementary 12-13-19
- 5<sup>th</sup> grade Oakwood Intermediate 12-16, 12-17, 12-18-19
- 3<sup>rd</sup> grade Brazos Christian Elementary 12-18-19
- 4<sup>th</sup> Bonham Elementary 12-19-19