

BVGCD Management Plan Objectives
November, 2018

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, 2018 Total 2018 - D/O - 42
	The number of exempt wells registered in the District.	4 registered – November, 2018 (B) – 0, (R) – 4 , (O/G) – 0 Total 2018 – 80
1b: Regulation of groundwater production by permitted well through metering.	Number of applications made for permitted use.	0 applications – November, 2018 Total 2018 - Industrial – 24; RPWS – 1; Agricultural - 17
	Type of application made for permitted use.	0 applications – November, 2018 0 – Agricultural; 0 – Industrial Total 2018 - Industrial – 24; RPWS – 1; Agricultural -17
	Number of permits issued by the District.	0 issued – November, 2018 Total 2018 – 42
	Type of permit issued by the District.	42 permits issued through December, 2018 Total 2018 - Industrial – 24; RPWS – 1; Agricultural - 17
	Amount of groundwater permitted (acre ft.)	0 ac/ft. groundwater permitted November, 2018 Total GW permitted (2018) – 3010.40 ac-ft. Total 2018 – Yegua-Jackson – 932.95 ac-ft. ; Sparta – 989 ac-ft.; BRA – 664.45 ac-ft; Simsboro – 30 ac-ft; Queen City – 250 ac-ft.; Carrizo – 27 ac-ft.; Calvert Bluff – 117 ac-ft.;
	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 2018 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.	158 wells
	Major aquifer wells monitored.	97 (Carrizo-Wilcox group)
	Minor aquifer wells monitored.	61 (Queen City/Sparta/Yegua-Jackson/BRA)
	Water quality tests by aquifer.	0 tests Total 2018 – 0
	Progress Report of groundwater availability.	Permitted production vs. actual production provided at each permit hearing.
2a: Water use fees to encourage conservation oriented use.	Amount of fees generated (Historic/Non-Exempt Operating)	Total to be invoiced (2017 production) - \$595,882.03 Fees collected 2018 - \$546,281.96

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	Amount of fees generated by Agricultural Use permits	Total invoiced (2017 production) - \$1,593.23 Fees collected 2018 - \$1,593.23
	Amount of fees generated by Historic/Non Exempt Industrial Operating Permits	Total invoiced (2017 production) - \$48,250.50 Total invoiced 2018 - \$33,767.13
	Amount of fees generated by Historic/Non Exempt Municipal Public Water Supply permits	Total invoiced (2017 production) - \$476,058.87 Total invoiced 2018 - \$436,387.30
	Amount of fees generated by Historic/Non Exempt Rural Water Supply Permits	Total invoiced (2017 production) - \$67,420.63 Total invoiced 2018 - \$61,802.24
	Amount of fees generated by Steam Electric Generation	Total invoiced (2017 production) - \$1,328.24 Fees collected 2018 - \$1,328.24
	Amount of fees generated by transport fees	Total invoiced (2017 production) \$0.00 Fees collected 2018 - \$0.00
	Amount of fees generated by BRA fees for 2016	Total invoiced (2017 production) - \$11,403.82 Fees collected 2018 - \$11,403.82
2b: Review District Rules to decrease amount of waste.	Annual review of rules for possible amendments addressing reduction of waste.	Rules committee to meet September 19, 2018 for annual review of rules. Full Board considered and adopted 10 rule amendments November 8, 2018.
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 1-29-18; Manned booth @ BCS Home & Garden Show distributing conservation materials Feb 10-11; Presentation to the "Sages" Group (30) on 5-17-18; Presentation to Bryan Rotary Club (75) on 5-23-18; Presentation to 15 science teachers on effective techniques for teaching groundwater curriculum 6-21-18; Presentation to approximately 40 local agricultural producers about the importance protection of the BRA Aquifer by BVGCD on July 19, 2018; Presentation to approx.. 80 members of the Texas Christmas Tree Association about groundwater district functions in Tyler, Texas August 25, 2018. Presentation to TAMU

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		Geol. 410 students (35) on groundwater management/districts. See attached for school listings.
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 Groundwater committee and full committee meeting 2-7-18. Served as alt. member 5-9-18; Attended 8-22-18 meeting.
4a: Determine if natural spring flows may be impacted by increased groundwater pumping.	Springs found in District.	No springs identified at this time.
	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 2018 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 11-4-10).	Review for effectiveness and updates annually.	Reviewed, revised and adopted November 8, 2012. Plan reviewed 8-6-18 with no recommended revisions. DDCP reviewed – 0
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 permit received – November, 2018 Total for 2018 – 42 permits received
	Number of water conservation plans submitted.	0 submitted – November, 2018 Total for 2018 – 0 submitted
	Number of water conservation plans reviewed.	0 reviewed – November, 2018 Total for 2018 – 0 reviewed
	Number of permittees agreeing to abide by District's water conservation plan.	0 abiding by DWCP – November, 2018 Total for 2018 – 42 abiding by DWCP

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6b: Develop a system for measurement and evaluation of groundwater supplies.	Minimum of 2 wells/aquifer.		Outlined by aquifer below. 158 monitor wells/102 monitored September-October, 2018
	Brazos River Alluvium	Number of Monitoring Wells/Number	23 wells/19 monitored 73 readings
	Calvert Bluff	Number of Monitoring Wells/Number	17 wells/10 monitored 36 readings
	Carrizo	Number of Monitoring Wells/Number	8 wells/2 monitored 14 readings
	Hooper	Number of Monitoring Wells/Number	17 wells/10 monitored 33 readings
	Queen City	Number of Monitoring Wells/Number	4 wells/2 monitored 9 readings
	Simsboro	Number of Monitoring Wells/Number	56 wells/34 monitored 107 readings
	Sparta	Number of Monitoring Wells/Number	25 wells/19 monitored 56 readings
	Yegua-Jackson	Number of Monitoring Wells/Number	9 wells/6 monitored 15 readings
		Total number of well year-to-date monitor readings	343 combined readings for all aquifers January 1 through December 31, 2018
6c: Assist in obtaining grant funds for the implementation of water conservation methods.	Number of meetings held with State Agencies		Ag Conservation Grant program conversation with Cameron Turner, TWDB, via email 2-6-18
	Number of meetings held with Federal Agencies		Met with Brazos Co. NRCS 8-22-18 (work session). Met with Robertson Co. NRCS 8-22-18 (work session).
	Number of meetings of the Grants subcommittee		Grant Committee to meet 9-13-18 to evaluate current grant programs and formulate 2019 budget recommendations

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	Number of grant applications received	1 – Robertson & Brazos counties SWCD for water and soil sampling in the BRA (\$8,200 granted 8-10-17) for use in Spring/Summer, 2018
	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 ET weather stations, remote rain gauges, upgrade cellular connections, and a website to inform public on lawn irrigation recommendations (2018).
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*	20 well plugging grant contracts in 2018
	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. See attached school listings.
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"> • Report water level data obtained • Average artesian head change • Comparison of changes to DFCs • Progress on conforming to DFCs 	John Seifert reported on progress toward conforming to the DFCs on April 10, 2018.

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	<p>Once annually (for each aquifer):</p> <ul style="list-style-type: none">• Report total permitted GW production• Report total estimated annual GW production• Compare this data to the MAG	<p>Presented to the Board at each Board meeting in a spreadsheet format. 1-11-18, 2-8-18, 3-8-18; 4-10-18; 5-10-18; 6-14-18; 7-11-18; 8-9-18; 9-13-18; 10-11-18; 12-13-18</p>
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Taught aquifer science/water conservation/aquifer protection to:

35 - 4th grade Bremond Elem. 1-12-18;
450 - 5th grade Sam Rayburn 1-18 to 1-23-18;
450 - 5th grade Jane Long 1-23 to 1-26-18;
29 - 4th & 5th grade Calvert Elem. 2-7-18;
147 - 2nd grade Green's Prairie Elem. 2-9-18;
54 - 5th grade Hearne Elem. 2-13-18;
120 - 4th grade Creek View Elem. 2-15/2-16-18;
120 - 4th grade South Knoll 2-20/2-21-18;
160 - 4th grade Green's Prairie 2-23-18;
39 - 4th & 5th Allen Academy 2-26-18;
130 - 4th grade Southwood Valley Elem. 2-27-18;
100 - 4th grade Pebble Creek 2-28-18;
125 - 4th Forest Ridge Elem. 3-1/3-2-18;
115 - 4th grade Spring Creek Elem. 3-5/3-6-18;
100 - 4th Rock Prairie Elem. 3-7 thru 3-9-18;
40 - 4th & 5th grade Mumford Elem. 3-19-18;
160 - 4th grade College Hills Elem. 3-22 & 3-23-18;
80 - 7th grade Franklin Middle 3-26 & 3-27-18;
550 - 7th grade Davila Middle 3-28 thru 4-5-18;
500 - 7th grade SFA 4-6 thru 4-13-18;
40 - 4th grade St. Joseph's 4-11-18;
85 - 5th grade Franklin Middle 4-16-18;
550 - 7th CSMS 4-18 to 4-23-18;
500 - AMCMS 4-24 to 5-1-18;
41 - Mumford Middle 5-3 & 5-4-18;
41 - 7th Bremond Middle 5-7 & 5-8-18;
560 - 8th Knox Middle (Woodlands) 9-10 to 9-14-18;
75 - 7th grade Hearne Middle 10-15 & 10-16-18;
60 - 4th grade Hearne Elem. 10-17-18;
270 - Robertson County 5th grade @ Water Field Day in Hearne 10-23-18;
48 - 4th grade Bowen Elem. 11-5-18
100 - 4th grade Kemp Elem. 11-7-18
79 - 4th grade Johnson Elem. 11-9-18
86 - 4th grade Neal Elem. 11-14-18
60 - 4th grade Crockett Elem. 11-16-18
94 - 4th grade Navarro Elem. 11-26-18
80 - 4th grade Mitchell Elem. 11-27-18
133 - 4th grade Bonham Elem. 11-28 & 11-30-18
100 - 4th grade Houston Elem. 11-28-18
95 - 4th grade Branch Elem. 12-3-18
72 - 4th grade Fannin Elem. 12-5-18
100 - 4th grade Henderson Elem. 12-10-18
75 - 4th grade Sul Ross Elem. 12-11-18
125 - 4th grade Forest Ridge Elem. 12-12-18