**Annual Report**

**October 1, 2020 – September 30, 2021**

The Permian Basin Underground Water Conservation District Board Members and Staff experienced a very challenging year! With the continuation of the COVID-19 Pandemic, the District conducted business with virtual board meetings throughout the first half of the year, then resumed with public meetings as COVID restrictions lessened. This year marked a transition period for the district when Donna Springer retired in December. The following months the district was interim managed until the hiring of the new district manager, Dallen Skinner. Also, with the resignation of Misty Mimms, a new education coordinator is being sought and will be hired in the next fiscal year. Thanks to the Board of Directors and the Staff, all of our Management Plan objectives were completed!

Mr. Ray Brady, Geologist and Ms. Amy Bush, Hydrologist, with RMBJ Geo, Inc., completed the hydrographs, the trends, and continue to identify the aquifers of the well logs received; all of which provides a basis for determining Desired Future Conditions (DFC). Their continued help with the DFC process, the District Monitor Well Program, and tutorials for the District Data System/ArcGIS have been invaluable. We look forward to their continued work for the District in 2021-2022.

The former District Education Coordinator, Misty Mimms, implemented the District's educational programs which include; Scholarship Essay Contest and the 4th & 5th grade Calendar Contest. With the help of Shain Howard, she conducted the Rainwater Harvesting Presentation under CDC guidelines and while maintaining social distancing. She submitted articles to the newspapers as part of the District Management Plan compliance and updated the District's website [www.pbuwcd.com](http://www.pbuwcd.com) and Facebook page with ongoing District activities.

Due to COVID-19 the district did not participate in the Water Well Driller’s CE Class, Martin County Library Day, and Howard County Health Fair.

We captured approximately 10,0000 gallons this fiscal year and currently have approximately 5,000 gallons remaining in the tanks. One of the 50 gallon barrels is being used for demonstration of rainwater harvesting using a down spout and the other two are for demonstrating the use of a rain chain. The Rainwater Harvesting System and the Xeriscape Landscaping are a valuable educational tool as well as an example to the public.

This past year the District continued to participate in the following additional programs not required by the District Management Plan:

* The Water Quality Project includes testing the quality of water in water wells located near Salt Water Disposal sites and Oil Well locations. There were 13 of 13 samples in Howard County and 30 of 35 samples in Martin County collected and tested.
* The Additional Monitoring Well Measurement program provides additional data for the District. This year 49 of 52 additional wells in Howard County and 38 of 42 additional wells in Martin County were measured.

Major Capital Items Purchased in 2020-2021:

* 2021 Ford f-150 and additional accessories $17,637.95

**All the objectives of the Management Plan have been completed.** The files have been copied and filed.

The District will continue with its long range objectives and maintain quality programs that benefit the constituents it serves.

This report is hereby adopted by the Board of Directors on October 21, 2021.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Richie Tubb, President Raymond Straub Jr., Vice President

***Method for Tracking the District’s Progress in Achieving Management Goals***

The District staff will prepare an annual report to the Board of Directors of the District’s performance with regard to achieving management goals and objectives. The report will be maintained on file in the open records of the District.

**Actions, Procedures, Performance and Avoidance for Plan Implementation** as required by {TWC §36.1071(e)(2)}.

The District will implement the provisions of this plan and will utilize the provisions of this plan as a guidepost for determining the direction or priority for all District activities. All operations of the District, all agreements entered into by the District and any additional planning efforts in which the District may participate will be consistent with the provisions of this plan.

The District has rules relating to the permitting and registration of wells. The rules adopted by the District are pursuant to TWC §36 and the provisions of this plan. All rules will be adhered to and enforced. The promulgation and enforcement of the rules will be based on the best technical evidence available. District rules are available on the District's website at www.pbuwcd.com/files/rules.

The District will seek the cooperation in the implementation of this plan and the management of groundwater supplies within the District. All activities of the District will be undertaken in cooperation and coordinated with the appropriate state, regional or local management entity.

***Management Goals and Performance Standards***

***Goal 1.0*** *Providing the Most Efficient Use of Groundwater*

 ***1.01 - Objective - Water Level Monitoring*** - Annually measure and

 record water level measurements in a water level monitoring network of the District.

 ***1.01 - Performance Standards***

 ***1.01a* -** The District will maintain a water level monitoring network, annually measure 80% of the wells in the network, and report in the annual report to the Board of Directors.

The District began measuring wells in late December and obtained measurements for 183 of 198 or 92.4% of the wells in the network. There was 1 well addition and 6 deletions for this program year.

Information regarding the District's water level monitoring program was sent to the Texas Water Development Board.

The water level measurements were also posted on the District’s website.

 ***1.02* - *Objective - Well Permitting and Well Completion* -** The District will issue water well drilling permits for non-exempt water wells in accordance with the District’s rules.

 ***1.02 - Performance Standards***

***1.02a* -** The Board of Directors will vote on approval of permits at the regularly scheduled meeting after the permit has been issued and report the total annual number of issued water well drilling permits in the annual report to the Board of Directors.

Total permits issued - 796

Total registrations issued – 97

47 of these wells were plugged, backfilled, or the permit/registration expired.

Total well validations issued - 0

All wells were inspected with the exception of 70 that are pending inspection.

Permits, inspection reports, and well reports received were placed in the District's files.

***Goal 2.0*** *Controlling and Preventing Waste of Groundwater*

 ***2.01* - *Objective - Laboratory Services***

 ***2.01* *- Performance Standards***

 ***2.01a* -** The District will provide basic and/or coliform water quality testing upon request, communicate test results to constituents, and report the total annual number of water quality tests performed in the annual report to the Board of Directors.

Total number of constituents requesting a basic test: 11

A breakdown of each individual basic test shows a total of 18 tests performed.

Total number of constituents requesting coliform test: 5

There was 3 positive result found. The constituent was notified and disinfectant instructions were provided.

The District mailed a letter and a copy of the test results to all constituents who requested a water analysis and/or a fecal coliform test.

***2.02* - *Objective - Open or Uncovered Wells***

***2.02*** *-* ***Performance Standards***

 ***2.02a* -** The District will inspect any open or uncovered wells found or reported each year, insure that a found or open hole is properly closed according to statute to prevent potential contamination of the aquifer, and report the total annual number of open or uncovered wells in the annual report to the Board of Directors.

Since the arrival of the new manager, there were approximately 12 open or uncovered holes reported. The owners were notified and upon second inspection all were found to be in compliance. There are no known open holes at this time.

***2.03 -* *Objective - Salt Water Disposal Well Monitoring***

 ***2.03 - Performance Standards***

 ***2.03a* -** The District will inspect 80% of known salt water disposal wells for indications of pollution potential and report in the annual report to the Board of Directors.

The District began inspection of known Salt Water Disposal (SWD) wells in the District in June. The Field Tech inspected 153 SWD sites or 98% of the known SWD sites and entered the well monitoring observations in forms on the laptop field computer. There were 2 SWDs found to have a leak outside the berm. The owners were notified and upon second inspection the sites had been cleaned and no leaks found.

The Administrative Assistant downloaded the information into the District computer database. All new or changed SWD information was printed and entered into the SWD Well notebook along with the list of SWDs for 2020-2021 and a printed report showing all SWD Inspection Site information.

A total of 5 new SWDs were added to the program this year. Maps and pictures of these new locations were entered into the District database, printed and added to the Salt Water Disposal Well Monitoring Notebook.

7 SWD were dropped from the program this year.

***Goal 3.0*** *Drought Conditions* ***-*** Drought information by the Texas Water Development Board (TWDB) is available online: http://waterdatafortexas.org/drought

***3.01*** *-* ***Objective - Drought Education***

***3.01*** *-* ***Performance Standards***

 ***3.01a* -** The District will monitor the drought conditions and submit a minimum of one article annually to a newspaper of general circulation within the District focused on water conservation tips and drought awareness if necessary. The annual numbers of articles submitted to the newspaper will be reported in the annual report to the Board of Directors.

The District staff monitored the Palmer Drought Severity Index (PDSI) monthly. Maps were printed and filed in the Drought Notebook. Martin County experienced a severe drought in the month of August this year according to the PDSI. A press release was sent to the Martin County messenger. The article included conservation tips for in and around the home. A copy of the published newspaper article was filed in the Drought Notebook.

***Goal 4.0*** *Conservation, Recharge Enhancement, Rainwater Harvesting, Precipitation Enhancement and Brush control where appropriate and cost effective. (36.1071(a)(7))*

***4.01*** *-* ***Objective*** *-* ***Conservation***

***4.01 - Performance Standard***- Each year the District will provide a minimum of one educational material regarding water conservation to public schools within the District and report it in the annual report to the Board of Directors.

The District supplied a total of 1,750 Book covers and 1,400 Take Home Folders to Forsan, Grady, Sands and Stanton School Districts. The book covers and take-home folders have the District’s information as well as *water conservation messages* to provide students with ideas of how to conserve water.

***4.02 -******Recharge Enhancement*** - A review of past work conducted by others indicates this goal is not appropriate at present; therefore this goal is not applicable.

 ***4.03 - Objective - Rainwater Harvesting*** - provide and distribute literature on rainwater harvesting and promote the conservation and efficient use of water.

***4.03 - Performance Standard* -** Each year the District staff will submit a minimum of one article on rainwater harvesting to a newspaper of general circulation located within the District and report it in the annual report to the Board of Directors.

The District submitted a Rainwater Harvesting article to the Martin County Messenger and the Big Spring Herald. A copy of the articles were placed in the Rainwater Harvesting Notebook.

An article on Rainwater Harvesting was also posted on the District’s website.

***4.04 - Precipitation Enhancement* -** A review of past work conducted by others indicates this goal is not appropriate at present; therefore this goal is not applicable.

***4.05 - Objective - Brush Control* -** provide and distribute literature on brush control and promote the conservation and efficient use of water.

***4.05 - Performance Standard* -** Each year the District staff will submit a

minimum of one article on brush control to a newspaper of general circulation located within the District and report it in the annual report to the Board of Directors.

The District submitted a Brush Control article to the Martin County Messenger and the Big Spring Herald. A copy of the articles were placed in the Brush Control Notebook.

An article on brush control promoting conservation and efficient use of water was also posted on the District's website.

***Goal 5.0*** *Desired Future Conditions adopted by the District*

***5.01*** *-* ***Objective -*** *Calculate Annual Drawdown*

 ***5.01 - Performance Standards***

 ***5.01a*. -** The District will calculate the average annual drawdown using the results of annual water level measurements to ensure they are meeting the desired future conditions listed in the earlier section of this plan. These results will be reported in the annual report to the Board of Directors.

The District provided the annual average drawdown results to the Board of Directors in the July 20th, 2020 board meeting.

The District calculated the average annual drawdown from 2020-2021.

The average annual drawdown results for the District: -2’

 ***5.01b* -** The District will also submit an article detailing the average drawdown results to at least one newspaper of general circulation within the District each year.

The District submitted the average drawdown results to the Martin County Messenger and the Big Spring Herald. A copy of the articles were placed in the Water Level Average Report Notebook of the District.

***Goals Determined not to be Applicable to the District***

The following goals referenced in Chapter 36, Texas Water Code, have been determined not applicable to the District;

 TWC §36.1071 (a) (3) Controlling and preventing subsidence

 TWC §36.1071 (a) (4) Addressing conjunctive surface water

 management issues

 TWC §36.1071 (a) (5) Addressing natural resource issues

 TWC §36.1071 (a) (7) Addressing recharge and precipitation enhancement issues